Databook

Code: Chiller Configurator - 1.5
Printing Date: November 2023

Air Cooled Chiller with VFD Single Screw Compressor

EWA(H)(D)(S)~TZ D

- Nominal capacity range 180 - 1950 kW
- 4 efficiency levels
- 3 sound configurations
- 50Hz and 60Hz power supply

HFO R-1234ze

HFC 134a

HFO-HFC R513A

AHRI CERTIFIED® www.ahridirectory.org
Air-Cooled Water Chilling Packages
AHRI Standards 550/590 and 551/591

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CE

DAIKIN

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1. General Characteristics

TOP class efficiency without compromise

Now in its IV generation, TZ chiller story continues with new cutting-edge technology providing the best performances over an even large range of capacity. New models feature latest compressor technology designed and manufactured by Daikin, combined with new innovative fan designed by Daikin to further enhance efficiency with reduced footprint. Four efficiency tiers with 3 sound configurations providing full flexibility to meet customer needs.

All TZ-D models are compliant with latest Ecodesign requirements for comfort application as well as process.

Extended operating envelope

New TZ-D is the perfect solution for comfort applications as well as process and critical cooling thanks to the widest range of operating condition:

- Outdoor conditions: from -20°C up to +55°C
- Supplied chilled fluid from -12°C up to +30°C.

Low Environmental impact

TZ-D TOP LEVEL performance reflects in low operating cost cutting-down not only the owner expenses but reducing at same time the indirect emissions. The very low GWP of R1234ze (low direct emissions) combined with the reduced power consumption (low indirect emissions) result in the best Life Cycle Climate Performance (LCCP).

Outstanding reliability

The chillers have one or two independent refrigerant circuits. Each compressor is provided with a Variable Frequency Drive (VFD) installed on the compressor and cooled directly by the refrigerant. Compare to other technologies: air cooled, and glycol cooled drivers, Daikin technology offer real independency from outdoor conditions (temperature, humidity, altitude, pollutions).

The VFD's are design and manufactured by Daikin to operate continuously in the most extreme conditions.

Range overview

The IV generation of TZ chiller is available with 3 refrigerants:

- R1234ze (EWAH)
- R513A (EWAS)
- R134a (EWAD)

all available in four efficiency tiers:

- Blue (B-) (avg. EER = 2,9 ; avg. SEER = 4,7)
- Silver (S-) (avg. EER = 3,1 ; avg. SEER = 5,5)
- Gold (X-) (avg. EER = 3,4 ; avg. SEER = 6,0)
- Platinum (P-) (avg. EER = 3,7 ; avg. SEER = 6,6)

three sound configurations:

- Standard Noise
- Standard Sound + option 76-b (compressor enclosure)
- Reduced Sound

Fan silent mode
Units equipped with EC motor fan provides fan silent mode. This feature allows the user to set up detailed time bands to reduced fan rotation speed and therefore sound emission in those areas where night quietness is a mandatory requirement (approximately -4dB(A) depending on unit model and operating conditions)

Superior control logic
The MicroTech 4 controller provides an easy-to-use control environment. The control logic is designed to provide maximum efficiency, to continue operation in unusual operating conditions and to provide history of unit operation. Easy interface with, BACnet, Ethernet TCP/IP or Modbus communications. Master/Slave operation is provided as standard allowing to connect 4 units working as single system.

Code requirements – Safety and observant of laws/directives
All units are designed and manufactured in accordance with the following directives and harmonized standards:

Low voltage directive	DIRECTIVE 2014/35/EU
Electromagnetic compatibility (EMC)	DIRECTIVE 2014/30/EU
Machinery directive	DIRECTIVE 2006/42/EC
Pressure equipment design	DIRECTIVE 2014/68/EU
Ecodesign	DIRECTIVE 2009/125/EC
Safety of machinery	EN 60204-1
EMC - Part 6-2	EN 61000-6-2
EMC - Part 6-4	EN 61000-6-4
Safety and environmental requirements	EN 378-1; EN 378-2; EN 378-4
Methods for calculation pressure relief devices.	EN 13136

Certifications
Units are CE marked, complying with European directives in force, concerning manufacturing and safety.

Compressors

Semi-hermetic Single Screw Compressor with integrated Variable Frequency Drive (VFD). The Single Screw compressor technology by Daikin is design to achieve TOP efficiency level at full capacity as well as in part-load situation. The main screw engages with the gate rotor(s) creating the compression chamber. The gate rotor (one or two depending on the compressor size) is made of a composite material with enhanced resistance to mechanical stress. The compressor capacity is continuously modulated by the integrated VFD. The drive is cooled directly by the refrigerant allowing for continuous operation regardless environmental condition (unlike the air cooled and glycol cooled drives). Gold and Platinum versions are also equipped with variable Volume Ratio (VVR) technology to further enhance compression efficiency during part load operation.

Evaporator

1) **single circuit units**

direct expansion plate-to-plate type evaporator This heat exchanger is made of stainless-steel brazed plates and is covered with 20mm closed cell insulation material. The exchanger is equipped with an electric heater for protection against freezing and evaporator water connections are provided with Victaulic kit (as standard). The evaporator is manufactured in accordance with 2014/68/EU.

2) **dual circuit units:**

direct expansion shell & tube evaporator with refrigerant evaporating inside the tubes and water flowing in the shell. The tubes are enhanced for maximum heat transfer and rolled into steel tube sheet and sealed.
The evaporators are single-pass on both refrigerant and water sides for pure counter-flow heat exchange and low refrigerant pressure drops. Both attributes contribute to the heat exchanger effectiveness and total unit's outstanding efficiency.

For both BPHE and S&T evaporators the installation of flow switch and filter is mandatory.

Condenser

The condenser is made entirely of aluminum. Full-depth louvered aluminum fins are inserted between the aluminum tubes maximizing the heat exchange. The Microchannel technology ensures the highest performance with the minimum surface for the exchanger. This technology reduces unit refrigerant charge compared to traditional copper tubes and aluminum condenser.
Special treatment ensure resistance to the corrosion by atmospheric agents extending the lifetime.
Note: applications in industrial, costal, highly polluted urban environment or combinations of them, require proper evaluation to understand if additional measures are needed to protect the condenser coil from the aggressive environment.

Condenser fans

Condenser fans are propeller type with high efficiency design blades developed by Daikin to maximize performances. Fan is rated IP55. Bases on model configuration unit can be equipped with AC motors plus Speedtrol or all fans with EC motors to enhance efficiency at part load, reduce sound and extend operating range towards negative ambient temperatures.

Electronic expansion valve

The unit is equipped with electronic expansion valves to achieve precise control of refrigerant mass flow. As today's systems require improved energy efficiency, accurate temperature control, wide range of operating conditions, the application of electronic expansion valves becomes mandatory.
Electronic expansion valves have unique features: short opening and closing time, high resolution, positive shut-off function to eliminate use of additional solenoid valve, continuous modulation of mass flow without stress in the refrigerant circuit and corrosion resistance stainless steel body. If compared to traditional thermostatic valves, electronic expansion valves allow the system to work with low condenser pressure (wintertime) without any refrigerant flow problems and the perfect control of the chilled water temperature.

Refrigerant circuit

Each unit has one or two independent refrigerant circuits and each one includes:

- Compressor
- Refrigerant
- Evaporator
- Air Cooled Condenser
- Electronic expansion valve
- Sight glass with moisture indicator
- Filter drier
- Charging valves
- High pressure switch
- High pressure transducers
- Low pressure transducers
- Oil pressure transducer
- Suction temperature sensor

Electrical panel

Power and control are in the main panel that is manufactured to ensure protection against all weather conditions. The electrical panel is IP54 and (when opening the doors) internally protected against possible accidental contact with live parts. The main panel is fitted with a main switch interlocked door that shuts off power supply when opening.

MicroTech 4 controller

The new MicroTech 4 controller is installed as standard in all Daikin units.

It gives the possibility to check the most relevant control parameters and modify unit set-points. Additionally, temperatures and pressures of water, refrigerant and air, programmable values, set points can be accessed based on a preset list of user profiles. A sophisticated software with adaptive logic, selects the most energy efficient combination of compressors, EEXV and fans to keep stable operating conditions to maximize unit energy efficiency and reliability.

MicroTech 4 protects critical components based on external signals from onboard sub-system (such as motor temperatures, refrigerant and oil pressures and temperatures, correctness of phase sequence, pressure switches and freezing of heat exchanger). The input coming from high-pressure switches cuts all digital output from the controller in less than 50ms, as an additional security for the equipment. Floating point calculations supported for increased accuracy in Pressure / Temperature conversions.

Control main features

- Control system has the following features:
- Management of compressors and fans modulation
- Control of cooling or heating leaving water temperatures
- Management of cooling and heating capacities according to the load
- Switch of operating modes in less than 1 minute
- Return reset (set point reset based on return water temperature)
- Set point reset (optional)
- Unit operation in partial failure condition
- Managed operations during critical conditions:
- High ambient temperature
- High thermal load
- Startup with high and low differential operating conditions
- Startup with high entering water temperature in cooling mode
- Startup with low entering water temperature in heating mode
- Optimized management of compressor load
- Optimized fan management according to condensing pressure
- General faults alarm relay
- Automatic re-start in case of power failure
- Rapid Restart to recover full load in the shortest possible time for Data Centre application.
- ICM Standard control for multiple units' management (optional)
- Soft load (optimized management of the compressor load during the start-up)
- Start at high cold heat exchanger water temperature.

Visualization of:

- cooling and heating entering/leaving water temperature of heat exchangers
- outdoor ambient temperature
- condensing-evaporating temperature and pressure, suction, and discharge superheat for each circuit
- hours and starts counter for compressors and pumps.
- status safety devices

Control additional features

- System upgrade with commercial SD cards
- Save/Restore of configuration parameters with a commercial SD card.
- Ethernet port for remote or local servicing using standard web browsers.
- Daikin on Site connectivity for cloud based.

Safety device / logic for each refrigerant circuit. The following devices / logics are available:

- high pressure (pressure switch)
- high pressure (transducer)
- low pressure (transducer)
- fans circuit breakers
- high compressor discharge temperature
- high motor winding temperature
- phase monitor
- low pressure ratio
- high oil pressure drops.
- low oil pressure
- no pressure changes at start

System security

The following securities are available:

- phase monitor (available as option)
- low ambient temperature lock-out
- freeze protection.

Regulation type

Proportional integral derivative regulation on the cold heat exchanger leaving water output probe.

Supervising systems MicroTech 4 remote communication (on request)

MicroTech 4 can communicate to BMS (Building Management System) based on the most common protocols as:

- Modbus RTU (Native)
- BACnet BTP certified over IP and MS/TP (class 4) (Native)
- Ethernet TCP/IP (Native)

2. F-Gas Information

Additional information related to F-GAS Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWAH235TZBSD1	R1234ze	7	1	34,0	0,2	-	-
EWAH255TZBSD1	R1234ze	7	1	34,0	0,2	-	-
EWAH300TZBSD1	R1234ze	7	1	34,0	0,2	-	-
EWAH350TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH400TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH420TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH455TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH505TZBSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH545TZBSD1	R1234ze	7	1	77,7	0,5	-	-
EWAH400TZBSD2	R1234ze	7	2	8,5	0,1	69,2	0,5
EWAH425TZBSD2	R1234ze	7	2	8,0	0,1	69,7	0,5
EWAH485TZBSD2	R1234ze	7	2	7,1	0,0	70,6	0,5
EWAH545TZBSD2	R1234ze	7	2	6,3	0,0	71,3	0,5
EWAH590TZBSD2	R1234ze	7	2	8,7	0,1	90,9	0,6
EWAH635TZBSD2	R1234ze	7	2	8,3	0,1	91,2	0,6
EWAH745TZBSD2	R1234ze	7	2	18,9	0,1	102,5	0,7
EWAH785TZBSD2	R1234ze	7	2	17,8	0,1	103,6	0,7
EWAH845TZBSD2	R1234ze	7	2	16,7	0,1	104,6	0,7
EWAH900TZBSD2	R1234ze	7	2	20,3	0,1	123,0	0,9
EWAH985TZBSD2	R1234ze	7	2	18,4	0,1	124,8	0,9
EWAHC11TZBSD2	R1234ze	7	2	22,8	0,2	142,3	1,0
EWAHH11TZBSD2	R1234ze	7	2	21,0	0,1	144,1	1,0
EWAHC13TZBSD2	R1234ze	7	2	40,5	0,3	146,4	1,0
EWAHH13TZBSD2	R1234ze	7	2	38,2	0,3	148,7	1,0
EWAHH14TZBSD2	R1234ze	7	2	44,0	0,3	164,8	1,2
EWAHC15TZBSD2	R1234ze	7	2	41,8	0,3	167,0	1,2
EWAHH15TZBSD2	R1234ze	7	2	49,7	0,3	180,9	1,3
EWAH240TZSSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH265TZSSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH295TZSSD1	R1234ze	7	1	55,8	0,4	-	-
EWAH370TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWAH415TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWAH450TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWAH490TZSSD1	R1234ze	7	1	77,7	0,5	-	-
EWAH540TZSSD1	R1234ze	7	1	99,5	0,7	-	-

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ii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWAH400TZSSD2	R1234ze	7	2	13,3	0,1	86,3	0,6
EWAH470TZSSD2	R1234ze	7	2	11,1	0,1	88,5	0,6
EWAH535TZSSD2	R1234ze	7	2	10,5	0,1	89,0	0,6
EWAH595TZSSD2	R1234ze	7	2	13,0	0,1	108,4	0,8
EWAH630TZSSD2	R1234ze	7	2	12,4	0,1	108,9	0,8
EWAH690TZSSD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWAH740TZSSD2	R1234ze	7	2	17,8	0,1	103,6	0,7
EWAH795TZSSD2	R1234ze	7	2	23,9	0,2	119,4	0,8
EWAH855TZSSD2	R1234ze	7	2	22,5	0,2	120,7	0,8
EWAH910TZSSD2	R1234ze	7	2	26,2	0,2	138,9	1,0
EWAH980TZSSD2	R1234ze	7	2	31,2	0,2	155,8	1,1
EWAHC10TZSSD2	R1234ze	7	2	36,3	0,3	172,5	1,2
EWAHC11TZSSD2	R1234ze	7	2	34,8	0,2	174,0	1,2
EWAHC12TZSSD2	R1234ze	7	2	32,1	0,2	176,7	1,2
EWAHH12TZSSD2	R1234ze	7	2	49,1	0,3	159,7	1,1
EWAHH13TZSSD2	R1234ze	7	2	46,4	0,3	162,4	1,1
EWAHC14TZSSD2	R1234ze	7	2	52,3	0,4	178,3	1,2
EWAHC15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWAHH15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWAH220TZXS/RD1	R1234ze	7	1	34,0	0,2	-	-
EWAH230TZXS/RD1	R1234ze	7	1	34,0	0,2	-	-
EWAH275TZXS/RD1	R1234ze	7	1	55,8	0,4	-	-
EWAH300TZXS/RD1	R1234ze	7	1	55,8	0,4	-	-
EWAH350TZXS/RD1	R1234ze	7	1	77,7	0,5	-	-
EWAH400TZXS/RD1	R1234ze	7	1	77,7	0,5	-	-
EWAH470TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH515TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH540TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH620TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH465TZXS/RD2	R1234ze	7	2	11,7	0,1	87,8	0,6
EWAH545TZXS/RD2	R1234ze	7	2	15,8	0,1	105,5	0,7
EWAH600TZXS/RD2	R1234ze	7	2	14,3	0,1	107,1	0,7
EWAH645TZXS/RD2	R1234ze	7	2	21,7	0,2	99,6	0,7
EWAH700TZXS/RD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWAH750TZXS/RD2	R1234ze	7	2	25,4	0,2	117,9	0,8
EWAH790TZXS/RD2	R1234ze	7	2	32,6	0,2	132,5	0,9
EWAH840TZXS/RD2	R1234ze	7	2	30,7	0,2	134,4	0,9
EWAH900TZXS/RD2	R1234ze	7	2	29,0	0,2	136,1	1,0
EWAH975TZXS/RD2	R1234ze	7	2	32,7	0,2	154,3	1,1
EWAHH10TZXS/RD2	R1234ze	7	2	38,0	0,3	170,8	1,2
EWAHH11TZXS/RD2	R1234ze	7	2	55,7	0,4	153,1	1,1

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWAH400TZSSD2	R1234ze	7	2	13,3	0,1	86,3	0,6
EWAH470TZSSD2	R1234ze	7	2	11,1	0,1	88,5	0,6
EWAH535TZSSD2	R1234ze	7	2	10,5	0,1	89,0	0,6
EWAH595TZSSD2	R1234ze	7	2	13,0	0,1	108,4	0,8
EWAH630TZSSD2	R1234ze	7	2	12,4	0,1	108,9	0,8
EWAH690TZSSD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWAH740TZSSD2	R1234ze	7	2	17,8	0,1	103,6	0,7
EWAH795TZSSD2	R1234ze	7	2	23,9	0,2	119,4	0,8
EWAH855TZSSD2	R1234ze	7	2	22,5	0,2	120,7	0,8
EWAH910TZSSD2	R1234ze	7	2	26,2	0,2	138,9	1,0
EWAH980TZSSD2	R1234ze	7	2	31,2	0,2	155,8	1,1
EWAHC10TZSSD2	R1234ze	7	2	36,3	0,3	172,5	1,2
EWAHC11TZSSD2	R1234ze	7	2	34,8	0,2	174,0	1,2
EWAHC12TZSSD2	R1234ze	7	2	32,1	0,2	176,7	1,2
EWAHH12TZSSD2	R1234ze	7	2	49,1	0,3	159,7	1,1
EWAHH13TZSSD2	R1234ze	7	2	46,4	0,3	162,4	1,1
EWAHC14TZSSD2	R1234ze	7	2	52,3	0,4	178,3	1,2
EWAHC15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWAHH15TZSSD2	R1234ze	7	2	58,3	0,4	194,2	1,4
EWAH220TZXS/RD1	R1234ze	7	1	34,0	0,2	-	-
EWAH230TZXS/RD1	R1234ze	7	1	34,0	0,2	-	-
EWAH275TZXS/RD1	R1234ze	7	1	55,8	0,4	-	-
EWAH300TZXS/RD1	R1234ze	7	1	55,8	0,4	-	-
EWAH350TZXS/RD1	R1234ze	7	1	77,7	0,5	-	-
EWAH400TZXS/RD1	R1234ze	7	1	77,7	0,5	-	-
EWAH470TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH515TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH540TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH620TZXS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH465TZXS/RD2	R1234ze	7	2	11,7	0,1	87,8	0,6
EWAH545TZXS/RD2	R1234ze	7	2	15,8	0,1	105,5	0,7
EWAH600TZXS/RD2	R1234ze	7	2	14,3	0,1	107,1	0,7
EWAH645TZXS/RD2	R1234ze	7	2	21,7	0,2	99,6	0,7
EWAH700TZXS/RD2	R1234ze	7	2	20,2	0,1	101,1	0,7
EWAH750TZXS/RD2	R1234ze	7	2	25,4	0,2	117,9	0,8
EWAH790TZXS/RD2	R1234ze	7	2	32,6	0,2	132,5	0,9
EWAH840TZXS/RD2	R1234ze	7	2	30,7	0,2	134,4	0,9
EWAH900TZXS/RD2	R1234ze	7	2	29,0	0,2	136,1	1,0
EWAH975TZXS/RD2	R1234ze	7	2	32,7	0,2	154,3	1,1
EWAHH10TZXS/RD2	R1234ze	7	2	38,0	0,3	170,8	1,2
EWAHH11TZXS/RD2	R1234ze	7	2	55,7	0,4	153,1	1,1

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWAHH12TZXS/RD2	R1234ze	7	2	61,9	0,4	168,8	1,2
EWAHH13TZXS/RD2	R1234ze	7	2	68,1	0,5	184,4	1,3
EWAH225TZPS/RD1	R1234ze	7	1	55,8	0,4	-	-
EWAH265TZPS/RD1	R1234ze	7	1	77,7	0,5	-	-
EWAH295TZPS/RD1	R1234ze	7	1	77,7	0,5	-	-
EWAH340TZPS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH395TZPS/RD1	R1234ze	7	1	99,5	0,7	-	-
EWAH435TZPS/RD1	R1234ze	7	1	121,4	0,8	-	-
EWAH490TZPS/RD1	R1234ze	7	1	121,4	0,8	-	-
EWAH545TZPS/RD1	R1234ze	7	1	121,4	0,8	-	-
EWAH500TZPS/RD2	R1234ze	7	2	16,7	0,1	104,6	0,7
EWAH540TZPS/RD2	R1234ze	7	2	21,3	0,1	121,9	0,9
EWAH615TZPS/RD2	R1234ze	7	2	31,3	0,2	111,9	0,8
EWAH645TZPS/RD2	R1234ze	7	2	29,1	0,2	114,2	0,8
EWAH700TZPS/RD2	R1234ze	7	2	27,1	0,2	116,1	0,8
EWAH770TZPS/RD2	R1234ze	7	2	32,6	0,2	132,5	0,9
EWAH845TZPS/RD2	R1234ze	7	2	38,2	0,3	148,7	1,0
EWAH900TZPS/RD2	R1234ze	7	2	36,2	0,3	150,8	1,1
EWAH960TZPS/RD2	R1234ze	7	2	41,8	0,3	167,0	1,2
EWAHC10TZPS/RD2	R1234ze	7	2	39,8	0,3	169,0	1,2
EWAHH10TZPS/RD2	R1234ze	7	2	45,3	0,3	185,3	1,3
EWAHH11TZPS/RD2	R1234ze	7	2	65,9	0,5	164,7	1,2
EWAHC12TZPS/RD2	R1234ze	7	2	76,9	0,5	176,1	1,2
EWAD275TZBSD1	R134a	1430	1	34,0	48,6	0,0	0,0
EWAD320TZBSD1	R134a	1430	1	55,8	79,9	0,0	0,0
EWAD345TZBSD1	R134a	1430	1	55,8	79,9	0,0	0,0
EWAD400TZBSD1	R134a	1430	1	55,8	80,0	0,0	0,0
EWAD470TZBSD1	R134a	1430	1	55,8	80,0	0,0	0,0
EWAD525TZBSD1	R134a	1430	1	77,7	111,5	0,0	0,0
EWAD580TZBSD1	R134a	1430	1	77,7	111,5	0,0	0,0
EWAD625TZBSD1	R134a	1430	1	77,7	111,6	0,0	0,0
EWAD510TZBSD2	R134a	1430	2	38,8	55,8	38,8	55,8
EWAD545TZBSD2	R134a	1430	2	38,8	55,9	38,8	55,9
EWAD570TZBSD2	R134a	1430	2	38,8	55,9	38,8	55,9
EWAD630TZBSD2	R134a	1430	2	39,8	57,4	59,7	86,1
EWAD670TZBSD2	R134a	1430	2	39,8	57,4	59,7	86,1
EWAD755TZBSD2	R134a	1430	2	60,7	87,6	60,7	87,6
EWAD830TZBSD2	R134a	1430	2	60,7	87,6	60,7	87,6
EWAD915TZBSD2	R134a	1430	2	60,7	87,7	60,7	87,7
EWADC10TZBSD2	R134a	1430	2	60,7	87,8	60,7	87,8
EWADH10TZBSD2	R134a	1430	2	61,4	88,8	81,8	118,4

i) The above data are referred to the unit without additional optional.

ii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

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2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWADH11TZBSD2	R134a	1430	2	82,5	119,5	82,5	119,5
EWADC12TZBSD2	R134a	1430	2	83,1	120,4	103,9	150,5
EWADC13TZBSD2	R134a	1430	2	104,4	151,4	104,4	151,4
EWADC14TZBSD2	R134a	1430	2	104,4	151,5	104,4	151,5
EWADC15TZBSD2	R134a	1430	2	104,8	152,2	125,8	182,7
EWADH16TZBSD2	R134a	1430	2	104,8	152,3	125,8	182,8
EWADH17TZBSD2	R134a	1430	2	104,8	152,4	125,8	182,9
EWADH18TZBSD2	R134a	1430	2	126,3	183,7	126,3	183,7
EWADH19TZBSD2	R134a	1430	2	126,3	183,8	126,3	183,8
EWAD285TZSSD1	R134a	1430	1	55,8	81,3	-	-
EWAD325TZSSD1	R134a	1430	1	77,7	113,2	-	-
EWAD380TZSSD1	R134a	1430	1	77,7	113,3	-	-
EWAD430TZSSD1	R134a	1430	1	77,7	113,4	-	-
EWAD495TZSSD1	R134a	1430	1	77,7	113,5	-	-
EWAD535TZSSD1	R134a	1430	1	99,5	145,5	-	-
EWAD595TZSSD1	R134a	1430	1	99,5	145,6	-	-
EWAD650TZSSD1	R134a	1430	1	99,5	145,7	-	-
EWAD520TZSSD2	R134a	1430	2	39,8	58,3	59,7	87,5
EWAD555TZSSD2	R134a	1430	2	39,8	58,4	59,7	87,5
EWAD585TZSSD2	R134a	1430	2	39,8	58,4	59,7	87,6
EWAD645TZSSD2	R134a	1430	2	60,7	89,1	60,7	89,1
EWAD705TZSSD2	R134a	1430	2	60,7	89,2	60,7	89,2
EWAD760TZSSD2	R134a	1430	2	61,4	90,2	81,8	120,3
EWAD835TZSSD2	R134a	1430	2	61,4	90,3	81,8	120,4
EWAD960TZSSD2	R134a	1430	2	61,4	90,4	81,8	120,5
EWADC10TZSSD2	R134a	1430	2	61,4	90,4	81,8	120,6
EWADH10TZSSD2	R134a	1430	2	61,4	90,5	81,8	120,6
EWADH11TZSSD2	R134a	1430	2	82,5	121,8	82,5	121,8
EWADH12TZSSD2	R134a	1430	2	104,4	154,1	104,4	154,1
EWADH13TZSSD2	R134a	1430	2	104,8	154,8	125,8	185,8
EWADH14TZSSD2	R134a	1430	2	104,8	155,0	125,8	185,9
EWADH15TZSSD2	R134a	1430	2	104,8	155,1	125,8	186,1
EWADH16TZSSD2	R134a	1430	2	104,8	155,2	125,8	186,2
EWADH17TZSSD2	R134a	1430	2	126,3	187,0	126,3	187,0
EWADH18TZSSD2	R134a	1430	2	126,3	187,1	126,3	187,1
EWADH19TZSSD2	R134a	1430	2	126,3	187,2	126,3	187,2
EWAD295TZXS/RD1	R134a	1430	1	55,8	82,8	-	-
EWAD345TZXS/RD1	R134a	1430	1	77,7	115,3	-	-
EWAD380TZXS/RD1	R134a	1430	1	77,7	115,4	-	-
EWAD440TZXS/RD1	R134a	1430	1	99,5	148,0	-	-
EWAD515TZXS/RD1	R134a	1430	1	99,5	148,1	-	-

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2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWAD565TZXS/RD1	R134a	1430	1	121,4	180,7	-	-
EWAD635TZXS/RD1	R134a	1430	1	121,4	180,9	-	-
EWAD705TZXS/RD1	R134a	1430	1	121,4	181,0	-	-
EWAD760TZXS/RD1	R134a	1430	1	121,4	181,1	-	-
EWAD525TZXS/RD2	R134a	1430	2	60,7	90,6	60,7	90,6
EWAD565TZXS/RD2	R134a	1430	2	60,7	90,7	60,7	90,7
EWAD610TZXS/RD2	R134a	1430	2	61,4	91,8	81,8	122,4
EWAD670TZXS/RD2	R134a	1430	2	61,4	91,8	81,8	122,4
EWAD725TZXS/RD2	R134a	1430	2	61,4	91,9	81,8	122,5
EWAD805TZXS/RD2	R134a	1430	2	82,5	123,6	82,5	123,6
EWAD880TZXS/RD2	R134a	1430	2	82,5	123,7	82,5	123,7
EWAD950TZXS/RD2	R134a	1430	2	82,5	123,8	82,5	123,8
EWADC10TZXS/RD2	R134a	1430	2	83,1	124,7	103,9	155,9
EWADH10TZXS/RD2	R134a	1430	2	83,1	124,8	103,9	156,0
EWADH11TZXS/RD2	R134a	1430	2	104,4	156,9	104,4	156,9
EWADC12TZXS/RD2	R134a	1430	2	104,4	157,0	104,4	157,0
EWADH12TZXS/RD2	R134a	1430	2	104,4	157,1	104,4	157,1
EWADH13TZXS/RD2	R134a	1430	2	104,8	157,9	125,8	189,5
EWADH14TZXS/RD2	R134a	1430	2	126,3	190,3	126,3	190,3
EWADH15TZXS/RD2	R134a	1430	2	126,3	190,4	126,3	190,4
EWADH16TZXS/RD2	R134a	1430	2	126,3	190,5	126,3	190,5
EWADH17TZXS/RD2	R134a	1430	2	126,3	190,6	126,3	190,6
EWAD285TZPS/RD1	R134a	1430	1	77,7	117,4	-	-
EWAD330TZPS/RD1	R134a	1430	1	99,5	150,5	-	-
EWAD370TZPS/RD1	R134a	1430	1	99,5	150,6	-	-
EWAD405TZPS/RD1	R134a	1430	1	121,4	183,8	-	-
EWAD450TZPS/RD1	R134a	1430	1	121,4	183,9	-	-
EWAD490TZPS/RD1	R134a	1430	1	121,4	184,0	-	-
EWAD530TZPS/RD2	R134a	1430	2	61,4	93,1	81,8	124,2
EWAD575TZPS/RD2	R134a	1430	2	61,4	93,2	81,8	124,2
EWAD615TZPS/RD2	R134a	1430	2	82,5	125,4	82,5	125,4
EWAD675TZPS/RD2	R134a	1430	2	82,5	125,5	82,5	125,5
EWAD735TZPS/RD2	R134a	1430	2	82,5	125,5	82,5	125,5
EWAD810TZPS/RD2	R134a	1430	2	83,1	126,5	103,9	158,1
EWAD890TZPS/RD2	R134a	1430	2	83,1	126,5	103,9	158,2
EWAD960TZPS/RD2	R134a	1430	2	83,1	126,6	103,9	158,3
EWADC10TZPS/RD2	R134a	1430	2	104,4	159,2	104,4	159,2
EWADH10TZPS/RD2	R134a	1430	2	104,4	159,3	104,4	159,3
EWADH11TZPS/RD2	R134a	1430	2	104,8	160,1	125,8	192,1
EWADC12TZPS/RD2	R134a	1430	2	104,8	160,2	125,8	192,2
EWADH12TZPS/RD2	R134a	1430	2	104,8	160,3	125,8	192,4

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2) GWP based on Fourth Assessment Report (AR4) used as reference in current REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWADH13TZPS/RD2	R134a	1430	2	126,3	193,2	126,3	193,2
EWADH14TZPS/RD2	R134a	1430	2	126,3	193,3	126,3	193,3
EWADH15TZPS/RD2	R134a	1430	2	126,3	193,4	126,3	193,4
EWAS275TZBSD1	R513A	630	1	34,0	21,4	-	-
EWAS320TZBSD1	R513A	630	1	55,8	35,2	-	-
EWAS345TZBSD1	R513A	630	1	55,8	35,2	-	-
EWAS400TZBSD1	R513A	630	1	55,8	35,2	-	-
EWAS470TZBSD1	R513A	630	1	55,8	35,2	-	-
EWAS525TZBSD1	R513A	630	1	77,7	48,9	-	-
EWAS580TZBSD1	R513A	630	1	77,7	48,9	-	-
EWAS625TZBSD1	R513A	630	1	77,7	48,9	-	-
EWAS755TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWAS830TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWAS915TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWASC10TZBSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWASH10TZBSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWASH11TZBSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWASC12TZBSD2	R513A	630	2	83,1	52,3	103,9	65,4
EWASC13TZBSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASC14TZBSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASC15TZBSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH16TZBSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH17TZBSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH18TZBSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH19TZBSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWAS285TZSSD1	R513A	630	1	55,8	35,2	-	-
EWAS325TZSSD1	R513A	630	1	77,7	48,9	-	-
EWAS380TZSSD1	R513A	630	1	77,7	48,9	-	-
EWAS430TZSSD1	R513A	630	1	77,7	48,9	-	-
EWAS495TZSSD1	R513A	630	1	77,7	48,9	-	-
EWAS535TZSSD1	R513A	630	1	99,5	62,7	-	-
EWAS595TZSSD1	R513A	630	1	99,5	62,7	-	-
EWAS650TZSSD1	R513A	630	1	99,5	62,7	-	-
EWAS520TZSSD2	R513A	630	2	39,8	25,1	59,7	37,6
EWAS555TZSSD2	R513A	630	2	39,8	25,1	59,7	37,6
EWAS585TZSSD2	R513A	630	2	39,8	25,1	59,7	37,6
EWAS645TZSSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWAS705TZSSD2	R513A	630	2	60,7	38,2	60,7	38,2
EWAS760TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWAS835TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWAS960TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWASC10TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWASH10TZSSD2	R513A	630	2	61,4	38,7	81,8	51,6
EWASH11TZSSD2	R513A	630	2	82,5	52,0	82,5	52,0
EWASH12TZSSD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASH13TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH14TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH15TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH16TZSSD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH17TZSSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH18TZSSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH19TZSSD2	R513A	630	2	126,3	79,5	126,3	79,5
EWAS295TZXS/RD1	R513A	630	1	55,8	35,2	-	-
EWAS345TZXS/RD1	R513A	630	1	77,7	48,9	-	-
EWAS380TZXS/RD1	R513A	630	1	77,7	48,9	-	-
EWAS440TZXS/RD1	R513A	630	1	99,5	62,7	-	-
EWAS515TZXS/RD1	R513A	630	1	99,5	62,7	-	-
EWAS565TZXS/RD1	R513A	630	1	121,4	76,5	-	-
EWAS635TZXS/RD1	R513A	630	1	121,4	76,5	-	-
EWAS705TZXS/RD1	R513A	630	1	121,4	76,5	-	-
EWAS760TZXS/RD1	R513A	630	1	121,4	76,5	-	-
EWAS525TZXS/RD2	R513A	630	2	60,7	38,2	60,7	38,2
EWAS565TZXS/RD2	R513A	630	2	60,7	38,2	60,7	38,2
EWAS610TZXS/RD2	R513A	630	2	61,4	38,7	81,8	51,6
EWAS670TZXS/RD2	R513A	630	2	61,4	38,7	81,8	51,6
EWAS725TZXS/RD2	R513A	630	2	61,4	38,7	81,8	51,6
EWAS805TZXS/RD2	R513A	630	2	82,5	52,0	82,5	52,0
EWAS880TZXS/RD2	R513A	630	2	82,5	52,0	82,5	52,0
EWAS950TZXS/RD2	R513A	630	2	82,5	52,0	82,5	52,0
EWASC10TZXS/RD2	R513A	630	2	83,1	52,3	103,9	65,4
EWASH10TZXS/RD2	R513A	630	2	83,1	52,3	103,9	65,4
EWASH11TZXS/RD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASC12TZXS/RD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASH12TZXS/RD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASH13TZXS/RD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH14TZXS/RD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH15TZXS/RD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH16TZXS/RD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH17TZXS/RD2	R513A	630	2	126,3	79,5	126,3	79,5
EWAS285TZPS/RD1	R513A	630	1	77,7	48,9	-	-
EWAS330TZPS/RD1	R513A	630	1	99,5	62,7	-	-
EWAS370TZPS/RD1	R513A	630	1	99,5	62,7	-	-

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Model	Ref. type	Ref. GWP [2]	N° of circuits	Ref. charge circuit #1 [kg] [1]	Ref. charge circuit #1 (TCO2Eq)	Ref. charge circuit #2 [kg] [1]	Ref. charge circuit #2 (TCO2Eq)
EWAS405TZPS/RD1	R513A	630	1	121,4	76,5	-	-
EWAS450TZPS/RD1	R513A	630	1	121,4	76,5	-	-
EWAS490TZPS/RD1	R513A	630	1	121,4	76,5	-	-
EWAS530TZPS/RD2	R513A	630	2	61,4	38,7	81,8	51,6
EWAS575TZPS/RD2	R513A	630	2	61,4	38,7	81,8	51,6
EWAS615TZPS/RD2	R513A	630	2	82,5	52,0	82,5	52,0
EWAS675TZPS/RD2	R513A	630	2	82,5	52,0	82,5	52,0
EWAS735TZPS/RD2	R513A	630	2	82,5	52,0	82,5	52,0
EWAS810TZPS/RD2	R513A	630	2	83,1	52,3	103,9	65,4
EWAS890TZPS/RD2	R513A	630	2	83,1	52,3	103,9	65,4
EWAS960TZPS/RD2	R513A	630	2	83,1	52,3	103,9	65,4
EWASC10TZPS/RD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASH10TZPS/RD2	R513A	630	2	104,4	65,8	104,4	65,8
EWASH11TZPS/RD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASC12TZPS/RD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH12TZPS/RD2	R513A	630	2	104,8	66,0	125,8	79,3
EWASH13TZPS/RD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH14TZPS/RD2	R513A	630	2	126,3	79,5	126,3	79,5
EWASH15TZPS/RD2	R513A	630	2	126,3	79,5	126,3	79,5

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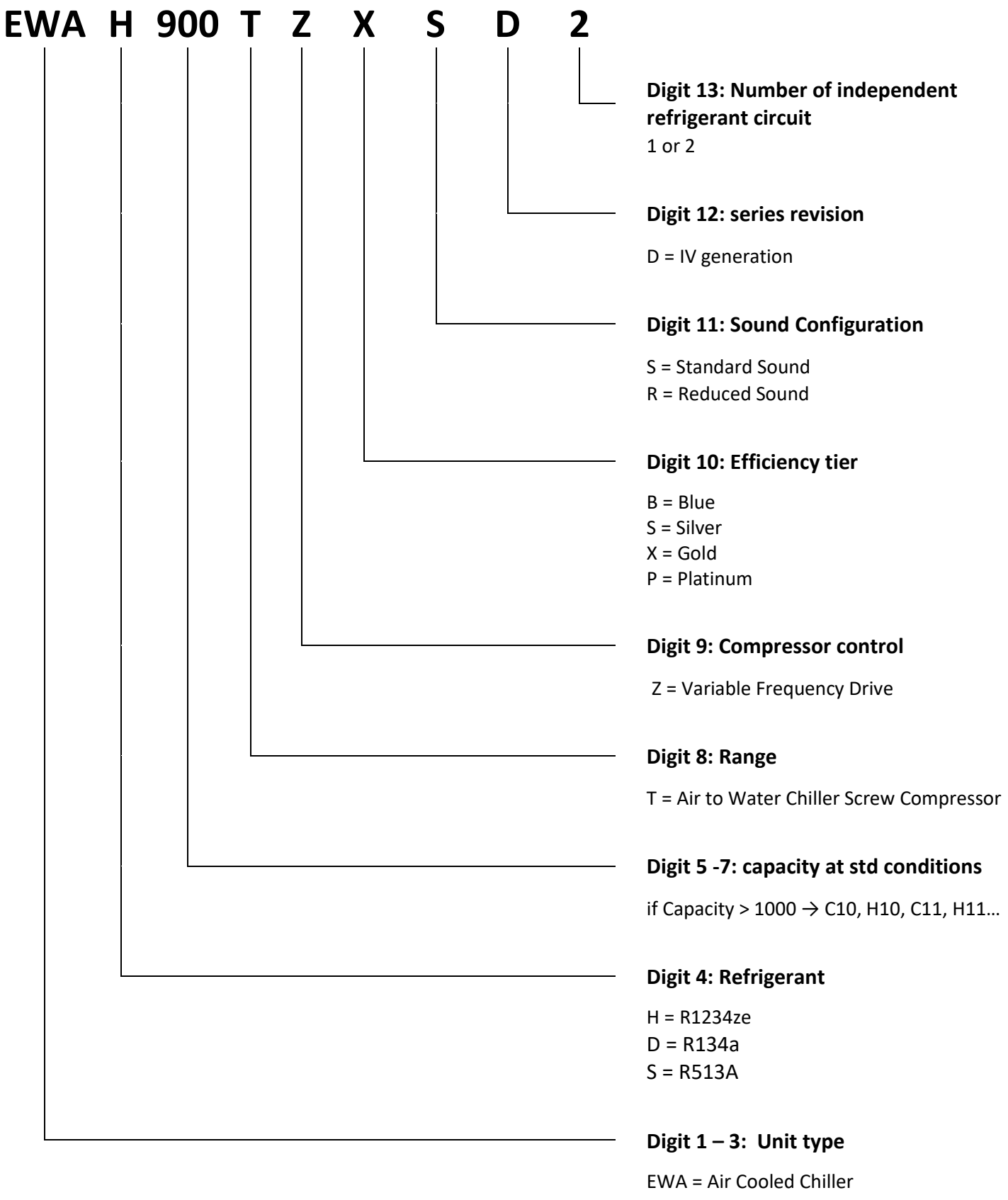
3. Nomenclature



4. Options

Features provided as standard

- 20mm evaporator insulation
- Victaulic connections
- Discharge line shut off valve.
- Suction line shut off valve.
- Double set-point
- Evaporator electric heater
- Electronic expansion valve
- Set point reset.
- Under/Over voltage control
- Thermal overload protection
- Phase sequence protection
- Hour run meter.
- General fault contactor
- Alarm from external device
- Fans circuit breakers
- Main switch interlock door
- Time scheduler
- Speedtrol (operation down to -20°C)
- Quite mode Scheduling (standard for units equipped with EC fans)
- Demand limit and alarm from external device
- Master / Slave (up to 4 units)

Options on demand

OPT 01 – Total Heat recovery
Unit is equipped with one additional condenser per circuit for production of hot water.
Heating available only when cooling is required at same time.

OPT 03 – Partial Heat recovery
Unit is equipped with one desuperheater per circuit for production of hot water.
Heating available only when cooling is required at same time.

OPT 08 – Brine version
Unit suitable for operation with negative supply temperature. Glycol mixture required.

OPT 21 – Evaporator flange kit.

OPT 63 – High Pressure side manometers.

OPT 64 – Low Pressure side manometers.

OPT 76-B – Soundproof system (compressor)
Enclosure on compressor to reduce unit sound emission. Provided as standard on Reduced Sound Configuration units (indicated with “R” in digit 13 of code string).

OPT 78 – One centrifugal pump (Low lift)
See Hydronic Options section for details.

OPT 79 – One centrifugal pump (High lift)
See Hydronic Options section for details.

OPT 80 – Two centrifugal pump (Low lift)
See Hydronic Options section for details.

OPT 81 – Two centrifugal pump (High lift)
See Hydronic Options section for details.

OPT 91 – Double pressure relief valve with diverter.

OPT 115 – Water filter.

OPT 58 – Evaporator Flow Switch

OPT 121 – Refrigerant Leak detection.
Requires compressor enclosure (OPT 76-b)

OPT 139 – E-coating microchannel coils
Provides additional resistance to corrosion in aggressive environment. See details in Installation and Operation manual.

OPT 225 - Blue coat microchannel coils
Provides additional resistance to corrosion in mildly aggressive environment. See details in Installation and Operation manual.

OPT 223 - Finned tubes Cu/Al blue fins condenser
Unit provided with copper tubes – Aluminum fins condenser. The fins are covered by a layer of acrylic material to provide mild protection to corrosion.

OPT 224 - Finned tubes Cu/Al e-coated condenser
Unit provided with copper tubes – Aluminum fins condenser with enhanced resistance to corrosion in aggressive environment. See details in Installation and Operation manual.

OPT 140 – Unit Guards (to cover unit access)
Wire mesh around the unit

OPT 141 – Side panels on coils end
Enhanced esthetics and protection of piping

OPT 187 – High evaporator leaving temperature (above 18°C)
Unit suitable for operation with supply temperature above 18°C

OPT 16 – Energy meter

OPT 17 – Capacitors for power factor correction

OPT 95 – Compressor circuit breakers

OPT 102 – Ground fault relay

OPT 120e – Inverter kit for 1 centrifugal pump low lift
to be selected with related pump option

OPT 120f – Inverter kit for 1 centrifugal pump high lift
to be selected with related pump option

OPT 120g – Inverter kit for 2 centrifugal pump low lift
to be selected with related pump option

OPT 120h – Inverter kit for 2 centrifugal pump high lift
to be selected with related pump option

OPT 142 – High Ambient kit
Unit suitable for operation continuous operation above 46°C air entering the unit.

OPT 143 – Variable Primary Flow
Unit suitable for operation in primary only system with variable flow. Requires selection of pump and related inverter kit. Requires selection of an integrated pump and related Inverter kit

OPT 144 – Differential pressure transducer (shipped loose)
Requires selection of OPT 143 – Variable primary Flow.

OPT 229 – Brushless fan (+ silent mode)
Unit equipped with EC motor fans. Benefits are enhanced part load performances and enable silent mode functionality to reduce noise emission based on defined time schedule or external signal. This feature is provided as standard for Silver, Gold, and Platinum models.

OPT 184 – iCM standard
Control functionality to manage systems including up to 8 units, not necessarily of the same model. The master unit can manage the slaves connected in series on the hydraulic plant with the aim of optimize the running hours of each compressor and to control pumps also in variable flow systems. iCM is compatible with Heat recovery, free-cooling and variable primary flow options to optimized operation of multiple units.

OPT 180 – Modbus RTU MSTP

OPT 181 – BACnet MSTP

OPT 182 – BACnet IP

OPT155 – Daikin on Site modem (with antenna) + Mobile App HMI

OPT 160C – 100 Pa ESP (Brushless fans)
Unit equipped with EC motor fans at higher rotational speed to win additional pressure resistance.
(Note: 100 Pa ESP are referred to standard unit's air flow)

OPT 110 – Rapid restart
Restore full capacity within 180 seconds from power restoration.

OPT 186 – Performance monitoring
Unit performance information's available from controller.

OPT 232 – Integrated Active Harmonic Filtration
Unit mounted active harmonic filter providing THDi <5% (Total Harmonic Distortion Current) of the chiller at full capacity.

OPT 75 – Rubber anti vibration mounts

OPT 77 – Spring Anti vibration mounts

OPT 71 – Container kit

OPT 112 – Transport kit

5. Technical data

EWAH TZ-D BS| Blue Efficiency, Standard Sound							
Model		**235**	**255**	**300**	**350**	**400**	**420**
Cooling Capacity (1)	kW	235,4	255,6	301,6	359,8	398,5	417,2
Power input (1)	kW	79,5	92,4	118,2	117,9	140,7	151,4
Cooling Efficiency – EER (1)	kW/kW	2,961	2,766	2,552	3,052	2,832	2,755
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,491	4,373	4,355	4,666	4,588	4,601
$\eta_{s,c}$ (3)	%	177%	172%	171%	184%	181%	181%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,151	5,013	5,003	5,349	5,11	5,065
IPLV (5)	kW/kW	4,484	4,419	4,369	4,683	4,584	4,558
Minimum capacity turndown (11)	%	19%	17%	14%	23%	20%	19%
Flow rate (1)	l/s	11,2	12,2	14,4	17,2	19,0	19,9
Evaporator Pressure Drop (1)(6)	kPa	12,0	13,9	15,5	35,1	42,5	46,3
Sound Power (1)(7) **– Lw**	dB(a)	98	100	101	97	98	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	93	95	92	93	93
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	40,0	48,0	42,7	42,7	42,7
Minimum water flow rate (10)	l/s	7,6	7,6	8,5	5,9	5,9	5,9
Length	mm	2560	2560	2560	3640	3640	3640
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2559	2559	2589	3486	3486	3486
Operating weight (8)	kg	2589	2594	2629	3536	3541	3541
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	159	181	219	221	255	271
Max Running Current (7)(8)(12)	A	204	227	268	291	334	355
Current for Wiring Sizing (8)	A	224	249	275	320	367	391
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D BS| Blue Efficiency, Standard Sound							
Model		**455**	**505**	**545**	**400**	**425**	**485**
Cooling Capacity (1)	kW	448,8	500	537,5	398,5	425,2	487,5
Power input (1)	kW	176,2	204,3	202,2	140,7	135,6	162,0
Cooling Efficiency – EER (1)	kW/kW	2,547	2,447	2,658	2,832	3,137	3,009
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,593	4,565	4,557	4,428	4,571	4,603
$\eta_{s,c}$ (3)	%	181%	180%	179%	174%	180%	181%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	4,904	4,816	4,856	5,345	5,266	5,174
IPLV (5)	kW/kW	4,537	4,523	4,492	4,411	4,407	4,451
Minimum capacity turndown (11)	%	17%	15%	15%	12%	11%	10%
Flow rate (1)	l/s	21,4	23,9	25,6	19,0	20,3	23,3
Evaporator Pressure Drop (1)(6)	kPa	53,1	36,2	41,4	42,5	32,3	34,9
Sound Power (1)(7) **– Lw**	dB(a)	100	102	103	97	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	94	95	94	95	96
Number of circuits / Compressors	#	1	1	1	2	2	2
Water volume	Lt	42,7	58,1	58,1	152,0	152,0	255,0
Minimum water flow rate (10)	l/s	5,9	10,2	10,2	8,7	8,7	8,6
Length	mm	3640	3640	4720	4720	4720	4720
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3486	3871	4353	3751	3751	3941
Operating weight (8)	kg	3546	3941	4428	3806	3811	4006
Water Connection Size	Ø mm	139,7	139,7	139,7	139,7	139,7	168,3
Running Current (1)(8)(12)	A	308	351	351	255	274	321
Max Running Current (7)(8)(12)	A	396	435	463	334	358	406
Current for Wiring Sizing (8)	A	436	457	468	368	394	447
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D BS| Blue Efficiency, Standard Sound							
Model		**545**	**590**	**635**	**745**	**785**	**845**
Cooling Capacity (1)	kW	537,5	576,1	633,2	742,7	786,2	842,9
Power input (1)	kW	202,2	201,2	226,9	238,6	261,4	287,6
Cooling Efficiency – EER (1)	kW/kW	2,658	2,864	2,791	3,113	3,007	2,931
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,595	4,568	4,612	4,792	4,758	4,774
$\eta_{s,c}$ (3)	%	181%	180%	181%	189%	187%	188%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,172	5,16	5,084	5,403	5,302	5,213
IPLV (5)	kW/kW	4,462	4,402	4,452	4,741	4,716	4,722
Minimum capacity turndown (11)	%	10%	10%	10%	12%	11%	10%
Flow rate (1)	l/s	25,6	27,5	30,2	35,4	37,5	40,2
Evaporator Pressure Drop (1)(6)	kPa	41,5	46,0	44,3	48,8	53,9	55,0
Sound Power (1)(7) **– Lw**	dB(a)	103	104	105	100	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	97	98	95	95	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	232,0	255,0	232,0	280,0	280,0	492,0
Minimum water flow rate (10)	l/s	10,7	8,6	10,7	12,9	12,9	12,3
Length	mm	4720	5800	5800	6880	6880	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3971	4422	4452	5370	5370	5614
Operating weight (8)	kg	4046	4502	4537	5470	5480	5729
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	168,3	219,1
Running Current (1)(8)(12)	A	351	391	425	445	480	519
Max Running Current (7)(8)(12)	A	452	494	536	581	624	667
Current for Wiring Sizing (8)	A	497	535	561	639	686	733
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D BS| Blue Efficiency, Standard Sound							
Model		**900**	**985**	**C11**	**H11**	**C13**	**H13**
Cooling Capacity (1)	kW	899,0	983,8	1104	1177	1315	1386
Power input (1)	kW	302,2	350,9	391,1	436,0	423,5	471,0
Cooling Efficiency – EER (1)	kW/kW	2,975	2,804	2,823	2,699	3,105	2,943
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,766	4,720	4,710	4,650	5,062	5,043
$\eta_{s,c}$ (3)	%	188%	186%	185%	183%	199%	199%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,178	5,051	4,992	4,887	6,271	6,039
IPLV (5)	kW/kW	4,692	4,624	4,623	4,543	5,285	5,263
Minimum capacity turndown (11)	%	10%	10%	10%	10%	12%	11%
Flow rate (1)	l/s	42,9	46,9	52,7	56,1	62,7	66,1
Evaporator Pressure Drop (1)(6)	kPa	62,1	59,0	44,8	49,4	40,2	43,6
Sound Power (1)(7) **– Lw**	dB(a)	101	103	105	107	104	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	97	98	98	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	492,0	583,0	1043,0	1043,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	12,3	14,6	18,1	18,1	22,6	22,6
Length	mm	7960	7960	9040	9040	10120	10120
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	6096	6185	7352	7352	8279	8279
Operating weight (8)	kg	6221	6320	7507	7517	8459	8469
Water Connection Size	Ø mm	219,1	219,1	273	273	273	273
Running Current (1)(8)(12)	A	544	617	682	748	733	804
Max Running Current (7)(8)(12)	A	719	801	889	927	1015	1106
Current for Wiring Sizing (8)	A	791	880	935	935	1116	1210
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D BS| Blue Efficiency, Standard Sound

Model		H14	C15	H15
Cooling Capacity (1)	kW	1474	1535	1586
Power input (1)	kW	508,7	563,3	580,5
Cooling Efficiency – EER (1)	kW/kW	2,898	2,725	2,732
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,041	4,983	4,984
$\eta_{s,c}$ (3)	%	199%	196%	196%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,953	5,857	5,867
IPLV (5)	kW/kW	5,232	5,165	5,150
Minimum capacity turndown (11)	%	10%	10%	10%
Flow rate (1)	l/s	70,3	73,2	75,6
Evaporator Pressure Drop (1)(6)	kPa	48,4	51,8	54,6
Sound Power (1)(7) – Lw	dB(a)	106	107	107
Sound Power (1)(7) – Lw with + OP76b	dB(a)	99	99	99
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	11200	11200	12280
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	8760	8760	9242
Operating weight (8)	kg	8965	8975	9462
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	862	943	971
Max Running Current (7)(8)(12)	A	1383	1330	1400
Current for Wiring Sizing (8)	A	1498	1463	1540
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D SS| Silver Efficiency, Standard Sound							
Model		**240**	**265**	**295**	**370**	**415**	**450**
Cooling Capacity (1)	kW	242,1	264,9	296,5	366,7	408,8	447,1
Power input (1)	kW	75,3	86,2	98,2	112,9	133,5	144,5
Cooling Efficiency – EER (1)	kW/kW	3,214	3,072	3,021	3,248	3,062	3,094
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,606	5,489	5,354	5,624	5,498	5,506
$\eta_{s,c}$ (3)	%	221%	217%	211%	222%	217%	217%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,773	6,093	5,963	6,199	5,797	5,841
IPLV (5)	kW/kW	5,624	5,530	5,387	5,920	5,755	5,738
Minimum capacity turndown (11)	%	19%	17%	15%	23%	20%	19%
Flow rate (1)	l/s	11,6	12,6	14,1	17,5	19,5	21,3
Evaporator Pressure Drop (1)(6)	kPa	12,6	14,9	15,0	36,4	44,6	29,4
Sound Power (1)(7) **– Lw**	dB(a)	98	100	102	97	98	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	93	94	94
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	40,0	48,0	42,7	42,7	58,1
Minimum water flow rate (10)	l/s	7,6	7,6	8,5	5,9	5,9	10,2
Length	mm	3640	3640	3640	4720	4720	4720
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3041	3041	3071	3968	3968	4032
Operating weight (8)	kg	3076	3076	3111	4018	4023	4092
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	158	178	198	227	254	271
Max Running Current (7)(8)(12)	A	214	237	259	302	344	365
Current for Wiring Sizing (8)	A	235	261	285	332	379	402
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D SS| Silver Efficiency, Standard Sound							
Model		**490**	**540**	**400**	**470**	**535**	**595**
Cooling Capacity (1)	kW	485,8	533,5	402,3	468,8	508,7	592,4
Power input (1)	kW	166,9	183,6	121,5	149,2	162,3	188,6
Cooling Efficiency – EER (1)	kW/kW	2,911	2,906	3,312	3,143	3,134	3,141
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,512	5,592	5,379	5,211	5,252	5,291
$\eta_{s,c}$ (3)	%	217%	221%	212%	205%	207%	209%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,578	5,477	6,345	6,108	6,066	5,972
IPLV (5)	kW/kW	5,593	5,607	5,480	5,317	5,351	5,392
Minimum capacity turndown (11)	%	17%	15%	12%	10%	10%	10%
Flow rate (1)	l/s	23,2	25,5	19,2	22,4	24,3	28,3
Evaporator Pressure Drop (1)(6)	kPa	34,3	40,9	29,5	38,4	37,5	39,2
Sound Power (1)(7) **– Lw**	dB(a)	101	102	98	101	101	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	95	95	96	97	98
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume	Lt	58,1	58,1	152,0	152,0	255,0	232,0
Minimum water flow rate (10)	l/s	10,2	10,2	8,7	8,7	8,6	10,7
Length	mm	4720	5800	5800	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4032	4834	4233	4233	4422	4934
Operating weight (8)	kg	4097	4909	4288	4298	4492	5014
Water Connection Size	Ø mm	139,7	139,7	139,7	139,7	168,3	168,3
Running Current (1)(8)(12)	A	305	334	260	309	332	382
Max Running Current (7)(8)(12)	A	406	455	345	405	428	495
Current for Wiring Sizing (8)	A	447	480	379	445	471	544
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D SS| Silver Efficiency, Standard Sound							
Model		**630**	**690**	**740**	**795**	**855**	**910**
Cooling Capacity [1]	kW	626,5	696,4	741,3	795,3	854,3	909,5
Power input [1]	kW	206,3	214,1	236,7	254,1	278,9	294,0
Cooling Efficiency – EER [1]	kW/kW	3,037	3,252	3,132	3,130	3,063	3,094
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	5,221	5,538	5,452	5,539	5,505	5,532
$\eta_{s,c}$ [3]	%	206%	219%	215%	219%	217%	218%
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	5,806	6,155	5,986	6,015	5,798	5,812
IPLV [5]	kW/kW	5,316	5,640	5,523	5,564	5,539	5,560
Minimum capacity turndown [11]	%	10%	13%	11%	11%	10%	10%
Flow rate [1]	l/s	29,9	33,2	35,4	37,9	40,8	43,4
Evaporator Pressure Drop [1][6]	kPa	43,5	43,4	48,7	55,0	56,8	63,4
Sound Power [1][7] **– Lw**	dB(a)	105	99	100	101	101	102
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	98	95	95	96	96	97
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	232,0	280,0	280,0	280,0	492,0	492,0
Minimum water flow rate [10]	l/s	10,7	12,9	12,9	12,9	12,3	12,3
Length	mm	6880	6880	6880	7960	7960	9040
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	4934	5370	5370	5852	6096	6577
Operating weight [8]	kg	5019	5465	5470	5962	6216	6702
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	219,1	219,1
Running Current [1][8][12]	A	412	426	456	483	521	547
Max Running Current [7][8][12]	A	526	538	581	634	677	729
Current for Wiring Sizing [8]	A	570	592	639	698	745	802
Max Inrush Current [8][9][12]	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D SS| Silver Efficiency, Standard Sound							
Model		**980**	**C10**	**C11**	**C12**	**H12**	**H13**
Cooling Capacity (1)	kW	983,4	1043	1113	1211	1331	1406
Power input (1)	kW	322,6	341,1	365,2	416,6	409,9	455,3
Cooling Efficiency – EER (1)	kW/kW	3,048	3,058	3,046	2,906	3,248	3,088
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,532	5,530	5,489	5,339	5,735	5,652
$\eta_{s,c}$ (3)	%	218%	218%	217%	211%	226%	223%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,684	5,629	5,565	5,353	7,029	6,714
IPLV (5)	kW/kW	5,516	5,505	5,452	5,254	6,207	5,994
Minimum capacity turndown (11)	%	10%	10%	10%	10%	12%	11%
Flow rate (1)	l/s	46,9	49,8	53,1	57,7	63,5	67,0
Evaporator Pressure Drop (1)(6)	kPa	72,2	65,3	45,3	51,4	41,0	44,7
Sound Power (1)(7) **– Lw**	dB(a)	103	104	105	107	104	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	98	98	99	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	492,0	583,0	1043,0	1043,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	12,3	14,6	18,1	18,1	22,6	22,6
Length	mm	10120	11200	11200	11200	11200	11200
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7059	7629	8315	8315	8760	8760
Operating weight (8)	kg	7194	7774	8470	8485	8945	8955
Water Connection Size	Ø mm	219,1	219,1	273	273	273	273
Running Current (1)(8)(12)	A	595	628	666	742	732	800
Max Running Current (7)(8)(12)	A	802	852	891	948	1025	1117
Current for Wiring Sizing (8)	A	882	937	958	958	1128	1222
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D SS| Silver Efficiency, Standard Sound

Model		C14	C15	H15
Cooling Capacity (1)	kW	1492	1542	1606
Power input (1)	kW	495,6	512,4	566,3
Cooling Efficiency – EER (1)	kW/kW	3,010	3,009	2,836
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,723	5,774	5,686
$\eta_{s,c}$ (3)	%	226%	228%	224%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,577	6,672	6,428
IPLV (5)	kW/kW	6,078	6,090	5,956
Minimum capacity turndown (11)	%	10%	10%	10%
Flow rate (1)	l/s	71,1	73,5	76,6
Evaporator Pressure Drop (1)(6)	kPa	49,4	52,2	55,7
Sound Power (1)(7) – Lw	dB(a)	106	107	108
Sound Power (1)(7) – Lw with + OP76b	dB(a)	99	100	100
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	12280	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	9242	9723	9723
Operating weight (8)	kg	9447	9938	9948
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	862	893	973
Max Running Current (7)(8)(12)	A	1393	1351	1410
Current for Wiring Sizing (8)	A	1510	1486	1552
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XS| Gold Efficiency, Standard Sound							
Model		**220**	**230**	**275**	**300**	**350**	**400**
Cooling Capacity (1)	kW	219,8	323,4	275,1	299,3	348,7	397,5
Power input (1)	kW	67,8	74,7	82,0	92,6	99,6	122,1
Cooling Efficiency – EER (1)	kW/kW	3,243	3,111	3,354	3,234	3,501	3,256
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,528	5,478	5,899	5,780	6,259	6,127
$\eta_{s,c}$ (3)	%	218%	216%	233%	228%	247%	242%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,161	6,987	7,144	6,832	7,545	6,939
IPLV (5)	kW/kW	6,035	5,988	6,156	6,085	6,684	6,588
Minimum capacity turndown (11)	%	22%	20%	18%	16%	25%	22%
Flow rate (1)	l/s	10,5	11,1	13,1	14,3	16,6	19,0
Evaporator Pressure Drop (1)(6)	kPa	10,5	11,7	13,0	15,3	33,2	42,3
Sound Power (1)(7) **– Lw**	dB(a)	97	97	100	101	97	100
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	90	91	93	93	91	91
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	40,0	48,0	48,0	42,7	42,7
Minimum water flow rate (10)	l/s	7,6	7,6	8,5	8,5	5,9	5,9
Length	mm	2560	2560	3640	3640	4720	4720
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2731	2731	3242	3242	4023	4023
Operating weight (8)	kg	2761	2761	3277	3282	4068	4078
Water Connection Size	Ø mm	88,9	88,9	88,9	88,9	139,7	139,7
Running Current (1)(8)(12)	A	145	157	176	194	211	243
Max Running Current (7)(8)(12)	A	172	183	214	236	269	310
Current for Wiring Sizing (8)	A	190	201	235	259	296	340
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XS| Gold Efficiency, Standard Sound							
Model		**470**	**515**	**540**	**620**	**465**	**545**
Cooling Capacity (1)	kW	466	504,2	534,5	617	471,7	543,9
Power input (1)	kW	139,9	159,8	152,6	191,0	135,2	155,1
Cooling Efficiency – EER (1)	kW/kW	3,331	3,156	3,503	3,231	3,488	3,508
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,336	6,198	5,640	5,558	5,999	6,108
$\eta_{s,c}$ (3)	%	250%	245%	223%	219%	237%	241%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,96	6,589	7,876	7,104	6,094	7,374
IPLV (5)	kW/kW	6,632	6,422	5,950	5,741	6,223	6,381
Minimum capacity turndown (11)	%	19%	17%	30%	25%	10%	10%
Flow rate (1)	l/s	22,2	24,1	25,5	29,4	22,5	25,9
Evaporator Pressure Drop (1)(6)	kPa	31,8	36,8	24,6	32,1	38,8	34,4
Sound Power (1)(7) **– Lw**	dB(a)	105	102	99	101	101	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	92	93	92	93	95	95
Number of circuits / Compressors	#	1	1	1	1	2	2
Water volume	Lt	58,1	58,1	76,3	76,3	152,0	232,0
Minimum water flow rate (10)	l/s	10,2	10,2	13,4	13,4	8,7	10,7
Length	mm	5800	5800	5800	5800	6880	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4569	4569	5323	5323	4886	5105
Operating weight (8)	kg	4634	4639	5398	5408	4951	5180
Water Connection Size	Ø mm	139,7	139,7	139,7	139,7	139,7	168,3
Running Current (1)(8)(12)	A	277	307	296	354	299	334
Max Running Current (7)(8)(12)	A	357	394	414	491	364	406
Current for Wiring Sizing (8)	A	393	434	456	541	401	442
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XS| Gold Efficiency, Standard Sound							
Model		**600**	**645**	**700**	**750**	**790**	**840**
Cooling Capacity (1)	kW	602,4	641,9	697,1	752,7	788,8	841,2
Power input (1)	kW	178,4	186,0	209,1	219,0	225,9	249,4
Cooling Efficiency – EER (1)	kW/kW	3,376	3,452	3,334	3,437	3,492	3,373
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,040	6,211	6,102	6,362	6,407	6,296
$\eta_{s,c}$ (3)	%	239%	245%	241%	251%	253%	249%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,923	7,547	7,222	7,378	7,396	7,065
IPLV (5)	kW/kW	6,280	6,446	6,347	6,608	6,640	6,479
Minimum capacity turndown (11)	%	10%	14%	13%	12%	12%	11%
Flow rate (1)	l/s	28,7	30,6	33,3	35,9	37,6	40,1
Evaporator Pressure Drop (1)(6)	kPa	30,8	34,1	39,6	47,0	50,5	55,2
Sound Power (1)(7) **– Lw**	dB(a)	106	98	100	101	102	103
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	93	93	93	94	94
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	289,0	289,0	289,0	492,0	492,0	492,0
Minimum water flow rate (10)	l/s	13,0	13,0	13,0	12,3	12,3	12,3
Length	mm	6880	6880	6880	7960	9040	9040
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5157	5414	5414	6151	6633	6633
Operating weight (8)	kg	5242	5504	5509	6256	6743	6748
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1
Running Current (1)(8)(12)	A	376	389	428	446	458	493
Max Running Current (7)(8)(12)	A	448	472	517	527	579	618
Current for Wiring Sizing (8)	A	492	520	569	580	637	680
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XS| Gold Efficiency, Standard Sound							
Model		**900**	**975**	**H10**	**H11**	**H12**	**H13**
Cooling Capacity (1)	kW	897,2	972,1	1082	1184	1275	1383
Power input (1)	kW	273,7	299,9	326,1	346,2	380,0	415,3
Cooling Efficiency – EER (1)	kW/kW	3,278	3,242	3,318	3,420	3,355	3,330
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,195	6,234	6,183	5,865	5,933	5,988
$\eta_{s,c}$ (3)	%	245%	246%	244%	232%	234%	237%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,929	6,794	6,451	7,475	6,884	7,104
IPLV (5)	kW/kW	6,360	6,383	6,420	6,367	6,514	6,481
Minimum capacity turndown (11)	%	10%	10%	10%	14%	13%	12%
Flow rate (1)	l/s	42,8	46,4	51,6	56,5	60,8	65,9
Evaporator Pressure Drop (1)(6)	kPa	50,8	57,8	29,9	49,5	55,9	43,4
Sound Power (1)(7) **– Lw**	dB(a)	105	107	105	103	104	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	95	96	96	96	97
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	583,0	583,0	1011,0	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	14,6	14,6	22,6	22,6	22,6	22,6
Length	mm	9040	10120	11200	11200	12280	13360
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	6722	7203	8091	8760	9242	9723
Operating weight (8)	kg	6847	7338	8241	8925	9417	9913
Water Connection Size	Ø mm	219,1	219,1	273	273	273	273
Running Current (1)(8)(12)	A	531	576	624	652	708	769
Max Running Current (7)(8)(12)	A	655	702	787	902	992	1090
Current for Wiring Sizing (8)	A	721	772	866	992	1091	1198
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**220**	**230**	**275**	**300**	**350**	**220**
Cooling Capacity (1)	kW	216,3	228,3	271,7	295,3	345,2	393,5
Power input (1)	kW	68,5	75,9	81,6	92,5	98,6	122,2
Cooling Efficiency – EER (1)	kW/kW	3,157	3,007	3,330	3,194	3,501	3,219
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,404	5,363	5,942	5,775	6,188	6,026
$\eta_{s,c}$ (3)	%	213%	212%	235%	228%	245%	238%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,211	7,038	7,013	6,88	7,573	6,981
IPLV (5)	kW/kW	6,058	6,007	6,144	6,065	6,641	6,619
Minimum capacity turndown (11)	%	22%	20%	18%	16%	25%	22%
Flow rate (1)	l/s	10,3	10,9	13,0	14,1	16,5	18,8
Evaporator Pressure Drop (1)(6)	kPa	10,2	11,3	12,7	14,9	32,5	41,5
Sound Power (1)(7) **– Lw**	dB(a)	97	97	100	101	97	100
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	40,0	48,0	48,0	42,7	42,7
Minimum water flow rate (10)	l/s	7,6	7,6	8,5	8,5	5,9	5,9
Length	mm	2560	2560	3640	3640	4720	4720
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2851	2851	3362	3362	4143	4143
Operating weight (8)	kg	2761	2761	3277	3282	4068	4078
Water Connection Size	Ø mm	88,9	88,9	88,9	88,9	139,7	139,7
Running Current (1)(8)(12)	A	150	163	181	200	217	250
Max Running Current (7)(8)(12)	A	172	183	214	236	269	310
Current for Wiring Sizing (8)	A	190	201	235	259	296	340
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**470**	**515**	**540**	**620**	**465**	**545**
Cooling Capacity [1]	kW	461,6	497,8	528	607,1	467,2	537,6
Power input [1]	kW	139,1	159,9	153,8	194,4	132,7	153,6
Cooling Efficiency – EER [1]	kW/kW	3,319	3,112	3,434	3,123	3,520	3,494
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,284	6,103	5,588	5,467	6,020	6,133
$\eta_{s,c}$ [3]	%	248%	241%	221%	216%	238%	242%
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,874	6,618	7,799	7,179	6,955	6,986
IPLV [5]	kW/kW	6,667	6,490	5,796	5,640	6,273	6,414
Minimum capacity turndown [11]	%	19%	17%	30%	25%	10%	10%
Flow rate [1]	l/s	22,0	23,7	25,2	29,0	22,3	25,6
Evaporator Pressure Drop [1][6]	kPa	31,2	35,9	24,0	31,2	38,1	33,7
Sound Power [1][7] **– Lw**	dB(a)	105	102	99	101	101	101
Number of circuits / Compressors	#	1	1	1	1	2	2
Water volume	Lt	58,1	58,1	76,3	76,3	152,0	232,0
Minimum water flow rate [10]	l/s	10,2	10,2	13,4	13,4	8,7	10,7
Length	mm	5800	5800	5800	5800	6880	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	4689	4689	5443	5443	5006	5225
Operating weight [8]	kg	4634	4639	5398	5408	4951	5180
Water Connection Size	Ø mm	139,7	139,7	139,7	139,7	139,7	168,3
Running Current [1][8][12]	A	284	315	306	367	306	344
Max Running Current [7][8][12]	A	357	394	414	491	364	406
Current for Wiring Sizing [8]	A	393	434	456	541	401	442
Max Inrush Current [8][9][12]	A	0	0	0	0	0	0

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ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**600**	**645**	**700**	**750**	**790**	**840**
Cooling Capacity (1)	kW	594,3	632,8	687,3	743,4	780,8	831,9
Power input (1)	kW	178,3	186,7	211,1	220,0	225,2	250,2
Cooling Efficiency – EER (1)	kW/kW	3,334	3,389	3,255	3,379	3,467	3,325
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,042	6,207	6,095	6,392	6,417	6,318
$\eta_{s,c}$ (3)	%	239%	245%	241%	253%	254%	250%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,09	7,555	7,246	7,426	7,446	7,152
IPLV (5)	kW/kW	6,301	6,460	6,317	6,633	6,648	6,520
Minimum capacity turndown (11)	%	10%	14%	13%	12%	12%	11%
Flow rate (1)	l/s	28,3	30,2	32,8	35,5	37,2	39,7
Evaporator Pressure Drop (1)(6)	kPa	30,1	33,2	38,6	46,1	49,8	54,9
Sound Power (1)(7) **– Lw**	dB(a)	106	98	100	101	102	103
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	289,0	289,0	289,0	492,0	492,0	492,0
Minimum water flow rate (10)	l/s	13,0	13,0	13,0	12,3	12,3	12,3
Length	mm	6880	6880	6880	7960	9040	9040
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5277	5534	5534	6271	6753	6753
Operating weight (8)	kg	5242	5504	5509	6256	6743	6748
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1
Running Current (1)(8)(12)	A	387	401	434	455	470	508
Max Running Current (7)(8)(12)	A	448	472	517	527	579	618
Current for Wiring Sizing (8)	A	492	520	569	580	637	680
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**900**	**975**	**H10**	**H11**	**H12**	**H13**
Cooling Capacity (1)	kW	886	959,8	1066	1167	1257	1363
Power input (1)	kW	276,0	301,6	327,9	351,2	384,5	419,4
Cooling Efficiency – EER (1)	kW/kW	3,210	3,182	3,251	3,323	3,268	3,251
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,216	6,252	6,226	5,875	5,942	5,987
$\eta_{s,c}$ (3)	%	246%	247%	246%	232%	235%	236%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,96	6,817	6,778	7,625	7,396	7,178
IPLV (5)	kW/kW	6,407	6,445	6,447	6,498	6,388	6,435
Minimum capacity turndown (11)	%	10%	10%	10%	14%	13%	12%
Flow rate (1)	l/s	42,3	45,8	50,8	55,6	59,9	65,0
Evaporator Pressure Drop (1)(6)	kPa	49,8	56,5	29,2	48,7	54,6	42,4
Sound Power (1)(7) **– Lw**	dB(a)	105	107	105	103	104	105
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	583,0	583,0	1011,0	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	14,6	14,6	22,6	22,6	22,6	22,6
Length	mm	9040	10120	11200	11200	12280	13360
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	6842	7323	8211	8880	9362	9843
Operating weight (8)	kg	6847	7338	8241	8925	9417	9913
Water Connection Size	Ø mm	219,1	219,1	273	273	273	273
Running Current (1)(8)(12)	A	547	593	643	676	733	794
Max Running Current (7)(8)(12)	A	655	702	787	902	992	1090
Current for Wiring Sizing (8)	A	721	772	866	992	1091	1198
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**225**	**265**	**295**	**340**	**395**	**435**
Cooling Capacity (1)	kW	227,3	266,6	293,6	336,7	392	421.5
Power input (1)	kW	63,2	73,7	83,9	87,4	107,4	116.7
Cooling Efficiency – EER (1)	kW/kW	3,600	3,618	3,499	3,853	3,651	3,612
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,234	6,353	6,334	6,977	6,709	6,849
$\eta_{s,c}$ (3)	%	246%	251%	250%	276%	265%	271%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,888	7,756	7,53	8,284	7,922	7,546
IPLV (5)	kW/kW	6,688	6,689	6,595	7,437	7,042	7,251
Minimum capacity turndown (11)	%	22%	19%	17%	28%	23%	22%
Flow rate (1)	l/s	10,8	12,7	14,0	16,1	18,7	20,1
Evaporator Pressure Drop (1)(6)	kPa	11,2	12,2	14,7	17,4	23,0	26,3
Sound Power (1)(7) **– Lw**	dB(a)	97	98	103	96	99	100
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	91	93	94	92	92	93
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	48,0	48,0	58,1	58,1	58,1
Minimum water flow rate (10)	l/s	7,6	8,5	8,5	10,2	10,2	10,2
Length	mm	3640	4720	4720	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3212	3724	3724	4569	4569	5050
Operating weight (8)	kg	3242	3759	3764	4614	4624	5110
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	142	167	185	196	231	248
Max Running Current (7)(8)(12)	A	183	214	235	258	301	330
Current for Wiring Sizing (8)	A	201	235	258	283	331	363
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**490**	**545**	**500**	**540**	**615**	**645**
Cooling Capacity (1)	kW	848,9	541,2	502,6	538,7	612,4	640,9
Power input (1)	kW	136,2	144,9	134,5	144,8	159,4	169,5
Cooling Efficiency – EER (1)	kW/kW	3,561	3,736	3,737	3,721	3,843	3,782
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,786	6,090	6,440	6,576	6,865	6,816
$\eta_{s,c}$ (3)	%	268%	241%	255%	260%	272%	270%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,499	8,298	7,94	7,87	8,313	7,45
IPLV (5)	kW/kW	7,093	6,385	6,797	6,932	7,155	7,157
Minimum capacity turndown (11)	%	19%	30%	10%	10%	15%	14%
Flow rate (1)	l/s	23,1	25,8	24,0	25,7	29,2	30,6
Evaporator Pressure Drop (1)(6)	kPa	20,5	25,2	22,9	25,6	34,4	36,8
Sound Power (1)(7) **– Lw**	dB(a)	105	99	101	101	97	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	93	95	96	93	93
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume	Lt	76,3	76,3	289,0	289,0	492,0	492,0
Minimum water flow rate (10)	l/s	13,4	13,4	13,0	13,0	12,3	12,3
Length	mm	6880	6880	6880	7960	7960	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5136	5805	5157	5639	6151	6151
Operating weight (8)	kg	5201	5880	5227	5714	6236	6241
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	219,1	219,1
Running Current (1)(8)(12)	A	278	291	299	322	347	365
Max Running Current (7)(8)(12)	A	367	425	375	406	432	458
Current for Wiring Sizing (8)	A	404	467	412	444	476	503
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**700**	**770**	**845**	**900**	**960**	**C10**
Cooling Capacity [1]	kW	697,3	768,3	847,6	901,3	958,2	1006
Power input [1]	kW	191,5	210,6	232,3	255,5	270,7	290,6
Cooling Efficiency – EER [1]	kW/kW	3,642	3,648	3,648	3,528	3,540	3,462
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,672	6,656	6,712	6,595	6,596	6,520
$\eta_{s,c}$ [3]	%	264%	263%	265%	261%	261%	258%
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,902	7,597	7,637	7,341	7,261	7,143
IPLV [5]	kW/kW	6,992	6,965	7,134	6,932	6,912	6,746
Minimum capacity turndown [11]	%	13%	12%	11%	10%	10%	10%
Flow rate [1]	l/s	33,3	36,6	40,4	43,0	45,7	48,0
Evaporator Pressure Drop [1][6]	kPa	41,8	39,8	59,3	65,2	36,2	38,9
Sound Power [1][7] **– Lw**	dB(a)	99	101	102	104	107	107
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	93	94	95	95	95	95
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	492,0	583,0	546,0	546,0	1043,0	1043,0
Minimum water flow rate [10]	l/s	12,3	14,6	14,5	14,5	18,1	18,1
Length	mm	7960	9040	10120	10120	11200	11200
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight [8]	kg	6151	6722	7256	7256	8050	8050
Operating weight [8]	kg	6246	6827	7371	7381	8180	8190
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273
Running Current [1][8][12]	A	403	438	473	508	540	569
Max Running Current [7][8][12]	A	505	558	609	647	694	731
Current for Wiring Sizing [8]	A	556	614	670	712	764	804
Max Inrush Current [8][9][12]	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PS| Platinum Efficiency, Standard Sound				
Model		**H10**	**H11**	**C12**
Cooling Capacity (1)	kW	1068	1163	1216
Power input (1)	kW	308,0	314,3	327,7
Cooling Efficiency – EER (1)	kW/kW	3,469	3,700	3,712
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,564	6,262	6,327
$\eta_{s,c}$ (3)	%	260%	247%	250%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,081	8,134	8,023
IPLV (5)	kW/kW	6,815	6,562	7,068
Minimum capacity turndown (11)	%	10%	14%	14%
Flow rate (1)	l/s	50,9	55,5	58,0
Evaporator Pressure Drop (1)(6)	kPa	29,3	33,3	35,7
Sound Power (1)(7) **– Lw**	dB(a)	106	102	103
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	96	96
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	12280	12280	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	8573	9242	9723
Operating weight (8)	kg	8723	9402	9893
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	603	612	638
Max Running Current (7)(8)(12)	A	779	875	923
Current for Wiring Sizing (8)	A	857	962	1015
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PR| Platinum Efficiency, Reduced Sound							
Model		**225**	**265**	**295**	**340**	**395**	**435**
Cooling Capacity (1)	kW	225,2	264,6	291,2	333,9	389,2	419,1
Power input (1)	kW	61,8	71,3	81,6	84,2	105,1	113,2
Cooling Efficiency – EER (1)	kW/kW	3,647	3,713	3,567	3,967	3,705	3,703
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,176	6,335	6,289	7,018	6,627	6,824
$\eta_{s,c}$ (3)	%	244%	250%	249%	278%	262%	270%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,911	7,883	7,466	8,532	7,997	7,912
IPLV (5)	kW/kW	6,699	6,688	6,583	7,472	7,129	7,273
Minimum capacity turndown (11)	%	22%	19%	17%	28%	23%	22%
Flow rate (1)	l/s	10,7	12,6	13,9	15,9	18,6	20,0
Evaporator Pressure Drop (1)(6)	kPa	11,0	12,1	14,5	17,1	22,6	26,1
Sound Power (1)(7) **– Lw**	dB(a)	87	88	92	88	89	90
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	48,0	48,0	58,1	58,1	58,1
Minimum water flow rate (10)	l/s	7,6	8,5	8,5	10,2	10,2	10,2
Length	mm	3640	4720	4720	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3332	3844	3844	4689	4689	5170
Operating weight (8)	kg	3242	3759	3764	4614	4624	5110
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	146	170	188	200	236	252
Max Running Current (7)(8)(12)	A	183	214	235	258	301	330
Current for Wiring Sizing (8)	A	201	235	258	283	331	363
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PR| Platinum Efficiency, Reduced Sound							
Model		**490**	**545**	**500**	**540**	**615**	**645**
Cooling Capacity (1)	kW	481,2	536,5	497,4	533,5	604,9	633,1
Power input (1)	kW	133,4	143,6	132,3	141,6	156,8	167,4
Cooling Efficiency – EER (1)	kW/kW	3,606	3,736	3,760	3,768	3,858	3,783
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,728	6,091	6,458	6,426	6,484	6,833
$\eta_{s,c}$ (3)	%	266%	241%	255%	254%	256%	270%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,536	8,398	6,902	7,585	8,309	8,217
IPLV (5)	kW/kW	7,127	6,407	6,826	6,955	7,285	7,162
Minimum capacity turndown (11)	%	19%	30%	10%	10%	15%	14%
Flow rate (1)	l/s	22,9	25,6	23,7	25,4	28,9	30,2
Evaporator Pressure Drop (1)(6)	kPa	20,3	24,8	22,5	25,2	33,8	36,2
Sound Power (1)(7) **– Lw**	dB(a)	93	90	91	91	89	89
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume	Lt	76,3	76,3	289,0	289,0	492,0	492,0
Minimum water flow rate (10)	l/s	13,4	13,4	13,0	13,0	12,3	12,3
Length	mm	6880	6880	6880	7960	7960	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5256	5925	5277	5759	6271	6271
Operating weight (8)	kg	5201	5880	5227	5714	6236	6241
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	219,1	219,1
Running Current (1)(8)(12)	A	283	299	306	330	356	374
Max Running Current (7)(8)(12)	A	367	425	375	406	432	458
Current for Wiring Sizing (8)	A	404	467	412	444	476	503
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PR| Platinum Efficiency, Reduced Sound							
Model		**700**	**770**	**845**	**900**	**960**	**C10**
Cooling Capacity (1)	kW	689	760,6	839,9	892,3	949,1	994,9
Power input (1)	kW	190,8	209,2	230,4	254,6	268,9	289,6
Cooling Efficiency – EER (1)	kW/kW	3,612	3,636	3,646	3,504	3,530	3,435
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,649	6,674	6,722	6,613	6,665	6,530
$\eta_{s,c}$ (3)	%	263%	264%	266%	262%	264%	258%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,916	7,814	7,732	7,375	7,179	7,18
IPLV (5)	kW/kW	7,001	6,458	7,118	6,974	6,918	6,794
Minimum capacity turndown (11)	%	13%	12%	11%	10%	10%	10%
Flow rate (1)	l/s	32,9	36,3	40,1	42,6	45,3	47,4
Evaporator Pressure Drop (1)(6)	kPa	41,1	39,2	58,5	64,2	35,7	38,3
Sound Power (1)(7) **– Lw**	dB(a)	90	91	92	94	95	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	492,0	583,0	546,0	546,0	1043,0	1043,0
Minimum water flow rate (10)	l/s	12,3	14,6	14,5	14,5	18,1	18,1
Length	mm	7960	9040	10120	10120	11200	11200
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	6271	6842	7376	7376	8170	8170
Operating weight (8)	kg	6246	6827	7371	7381	8180	8190
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273
Running Current (1)(8)(12)	A	415	449	485	521	553	584
Max Running Current (7)(8)(12)	A	505	558	609	647	694	731
Current for Wiring Sizing (8)	A	556	614	670	712	764	804
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAH TZ-D PR| Platinum Efficiency, Reduced Sound

Model		H10	H11	C12
Cooling Capacity (1)	kW	1056	1150	1204
Power input (1)	kW	305,9	315,5	327,6
Cooling Efficiency – EER (1)	kW/kW	3,452	3,644	3,675
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,577	6,262	6,255
$\eta_{s,c}$ (3)	%	260%	247%	247%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,129	8,261	8,094
IPLV (5)	kW/kW	6,863	6,451	6,947
Minimum capacity turndown (11)	%	10%	14%	14%
Flow rate (1)	l/s	50,3	54,8	57,4
Evaporator Pressure Drop (1)(6)	kPa	28,8	32,8	35,1
Sound Power (1)(7) – Lw	dB(a)	95	93	93
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	12280	12280	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	8693	9362	9843
Operating weight (8)	kg	8723	9402	9893
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	617	631	657
Max Running Current (7)(8)(12)	A	779	875	923
Current for Wiring Sizing (8)	A	857	962	1015
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D BS| Blue Efficiency, Standard Sound							
Model		**275**	**320**	**345**	**400**	**470**	**525**
Cooling Capacity (1)	kW	274,8	316,9	346	418,5	467	520,7
Power input (1)	kW	91,3	100,1	115,5	136,4	159,9	167,6
Cooling Efficiency – EER (1)	kW/kW	3,010	3,165	2,999	3,069	2,920	3,106
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,517	4,637	4,636	4,829	4,809	4,73
$\eta_{s,c}$ (3)	%	178%	182%	182%	190%	189%	186%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,516	5,34	5,393	5,447	5,488	5,449
IPLV (5)	kW/kW	4,385	4,569	4,567	4,847	4,829	4,743
Minimum capacity turndown (11)	%	21,5%	19%	16,5%	21,5%	23%	21,5%
Flow rate (1)	l/s	13,1	15,1	16,5	20,0	22,3	24,8
Evaporator Pressure Drop (1)(6)	kPa	16,0	21,0	24,9	46,6	57,2	39,1
Sound Power (1)(7) **– Lw**	dB(a)	97	98	100	97	97	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	92	94	94	92	92	94
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	40,0	40,0	42,7	42,7	58,1
Minimum water flow rate (10)	l/s	7,6	7,6	7,6	5,9	5,9	10,2
Length	mm	2560	3640	3640	3640	3640	4720
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2602	3084	3084	3486	3486	4032
Operating weight (8)	kg	2677	3169	3169	3583,7	3593,7	4160,1
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	179	196	218	248	284	299
Max Running Current (7)(8)(12)	A	220	262	284	346	362	400
Current for Wiring Sizing (8)	A	242	287	287	381	398	440
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D BS| Blue Efficiency, Standard Sound							
Model		**580**	**625**	**510**	**545**	**570**	**630**
Cooling Capacity (1)	kW	574,7	622,2	512,6	543,7	573,2	630,9
Power input (1)	kW	198,2	230,6	171,0	188,4	206,0	216,2
Cooling Efficiency – EER (1)	kW/kW	2,900	2,698	2,998	2,886	2,782	2,918
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,711	4,65	4,561	4,55	4,552	4,556
$\eta_{s,c}$ (3)	%	185%	183%	179%	179%	179%	179%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,258	5,104	5,323	5,406	5,333	5,392
IPLV (5)	kW/kW	4,702	4,680	4,427	4,404	4,413	4,501
Minimum capacity turndown (11)	%	19%	16,5%	10,5%	10%	10%	10%
Flow rate (1)	l/s	27,4	29,7	24,5	25,9	27,3	20,3
Evaporator Pressure Drop (1)(6)	kPa	47,2	54,5	30,7	34,2	37,5	48,3
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	99	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	95	95	96
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume	Lt	58,1	58,1	270,0	270,0	270,0	255,0
Minimum water flow rate (10)	l/s	10,2	10,2	8,6	8,6	8,6	10,7
Length	mm	4720	4720	4720	4720	4720	5800
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4032	4032	4212	4212	4212	4695
Operating weight (8)	kg	4170,1	4175,1	4552	4557	4562	5035
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	168,3	168,3
Running Current (1)(8)(12)	A	344	392	337	367	392	412
Max Running Current (7)(8)(12)	A	457	464	411	440	471	512
Current for Wiring Sizing (8)	A	468	468	452	484	516	561
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D BS| Blue Efficiency, Standard Sound							
Model		**670**	**755**	**830**	**915**	**C10**	**H10**
Cooling Capacity (1)	kW	674	753,1	825,6	916,8	997,9	1092
Power input (1)	kW	242,8	231,7	267,5	298,4	347,8	369,7
Cooling Efficiency – EER (1)	kW/kW	2,776	3,251	3,086	3,072	2,869	2,954
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,564	4,917	4,879	4,901	4,855	4,797
$\eta_{s,c}$ (3)	%	180%	194%	192%	193%	191%	189%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,352	5,663	5,428	5,663	5,488	5,483
IPLV (5)	kW/kW	4,501	4,896	4,840	4,864	4,845	4,902
Minimum capacity turndown (11)	%	10%	12,5%	10,5%	12,5%	10,5%	10%
Flow rate (1)	l/s	32,1	35,9	39,4	43,7	47,6	52,1
Evaporator Pressure Drop (1)(6)	kPa	37,0	49,8	58,2	42,6	48,7	50,9
Sound Power (1)(7) **– Lw**	dB(a)	102	99	100	99	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	95	95	95	95	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	280,0	280,0	481,0	481,0	557,0
Minimum water flow rate (10)	l/s	10,7	12,9	12,9	15,3	15,3	18,2
Length	mm	5800	6880	6880	6880	6880	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4695	5670	5670	6142	6142	6816
Operating weight (8)	kg	5045	6055	6065	6748	6763	7523
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1
Running Current (1)(8)(12)	A	450	435	489	537	610	646
Max Running Current (7)(8)(12)	A	556	600	668	668	751	817
Current for Wiring Sizing (8)	A	561	660	735	735	826	896
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
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Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D BS| Blue Efficiency, Standard Sound							
Model		**H11**	**C12**	**C13**	**C14**	**C15**	**H16**
Cooling Capacity (1)	kW	1168	1238	1332	1405	1534	1665
Power input (1)	kW	387,5	409,9	447,0	494,1	531,7	546,3
Cooling Efficiency – EER (1)	kW/kW	3,013	3,019	2,981	2,844	2,886	3,047
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,936	4,942	4,906	4,849	4,858	5,044
$\eta_{s,c}$ (3)	%	194%	195%	193%	191%	191%	199%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,42	5,347	5,222	5,128	5,105	6,257
IPLV (5)	kW/kW	4,877	4,859	4,774	4,722	4,713	5,287
Minimum capacity turndown (11)	%	10%	10%	10%	10%	10%	12,5%
Flow rate (1)	l/s	55,7	59,0	63,5	67,0	73,2	79,4
Evaporator Pressure Drop (1)(6)	kPa	56,7	62,3	70,2	77,1	51,5	58,5
Sound Power (1)(7) **– Lw**	dB(a)	101	102	104	105	106	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	97	98	98	99	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	557,0	557,0	557,0	557,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	18,2	18,2	18,2	18,2	22,6	22,6
Length	mm	9040	10120	11200	11200	12280	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7297	7779	8260	8581	9920	10323
Operating weight (8)	kg	8014	8506	9002	9333	11146	11564
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273
Running Current (1)(8)(12)	A	675	711	768	837	899	920
Max Running Current (7)(8)(12)	A	884	930	948	1120	1200	1227
Current for Wiring Sizing (8)	A	935	947	958	1232	1275	1280
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D BS| Blue Efficiency, Standard Sound				
Model		**H17**	**H18**	**H19**
Cooling Capacity (1)	kW	1760	1876	1954
Power input (1)	kW	608,6	659,1	730,3
Cooling Efficiency – EER (1)	kW/kW	2,891	2,846	2,675
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,995	4,997	4,979
$\eta_{s,c}$ (3)	%	197%	197%	196%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,083	6,01	5,852
IPLV (5)	kW/kW	5,255	5,198	5,152
Minimum capacity turndown (11)	%	11,5%	10,5%	10%
Flow rate (1)	l/s	83,9	89,4	93,2
Evaporator Pressure Drop (1)(6)	kPa	64,2	71,2	75,9
Sound Power (1)(7) **– Lw**	dB(a)	105	106	107
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	99	99	99
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	12280	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	10323	10805	10805
Operating weight (8)	kg	11579	12076	12086
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	1011	1088	1193
Max Running Current (7)(8)(12)	A	1340	1475	1608
Current for Wiring Sizing (8)	A	1474	1621	1621
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D SS| Silver Efficiency, Standard Sound							
Model		**285**	**325**	**380**	**430**	**495**	**535**
Cooling Capacity (1)	kW	283,6	327,3	360,3	426,8	490,9	530,6
Power input (1)	kW	84,4	98,4	112,8	131,0	151,7	161,0
Cooling Efficiency – EER (1)	kW/kW	3,359	3,328	3,194	3,258	3,235	3,296
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,551	5,737	5,636	5,741	5,434	5,659
$\eta_{s,c}$ (3)	%	219%	226%	222%	227%	214%	223%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,431	5,728	6,322	6,246	6,208	6,234
IPLV (5)	kW/kW	5,668	5,813	5,683	6,038	5,804	5,970
Minimum capacity turndown (11)	%	21,5%	19%	16,5%	21,5%	23%	21,5%
Flow rate (1)	l/s	13,5	15,6	17,2	20,4	23,4	25,3
Evaporator Pressure Drop (1)(6)	kPa	17,0	18,2	21,8	48,4	35,2	40,4
Sound Power (1)(7) **– Lw**	dB(a)	98	98	100	98	97	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	95	95	94	93	94
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	48,0	48,0	42,7	58,1	58,1
Minimum water flow rate (10)	l/s	7,6	8,5	8,5	5,9	10,2	10,2
Length	mm	3640	4720	4720	4720	4720	5800
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3084	3604	3604	3968	4032	4513
Operating weight (8)	kg	3164	3697	3702	4070,7	4155,1	4646,1
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	174	202	227	250	282	300
Max Running Current (7)(8)(12)	A	231	272	294	357	372	411
Current for Wiring Sizing (8)	A	254	298	298	392	410	452
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D SS| Silver Efficiency, Standard Sound							
Model		**595**	**650**	**520**	**555**	**585**	**645**
Cooling Capacity (1)	kW	590	642,1	522,4	555,8	586,7	646,3
Power input (1)	kW	188,4	218,2	162,1	177,6	194,1	202,9
Cooling Efficiency – EER (1)	kW/kW	3,131	2,942	3,223	3,130	3,023	3,186
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,556	5,535	5,281	5,237	5,099	5,291
$\eta_{s,c}$ (3)	%	219%	218%	208%	206%	201%	209%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,924	5,664	6,309	6,172	6,057	6,205
IPLV (5)	kW/kW	5,794	5,634	5,374	5,314	5,241	5,404
Minimum capacity turndown (11)	%	19%	16,5%	10,5%	10%	10%	10%
Flow rate (1)	l/s	28,1	30,6	24,9	26,5	28,0	30,8
Evaporator Pressure Drop (1)(6)	kPa	49,6	57,8	31,7	35,5	39,0	34,2
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	99	101	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	95	95	96	96	97
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume	Lt	58,1	58,1	270,0	270,0	270,0	255,0
Minimum water flow rate (10)	l/s	10,2	10,2	8,6	8,6	8,6	10,7
Length	mm	5800	5800	5800	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4513	4513	4693	4693	4693	5177
Operating weight (8)	kg	4651,1	4661,1	5033	5038	5043	5522
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	168,3	168,3
Running Current (1)(8)(12)	A	341	385	332	359	388	407
Max Running Current (7)(8)(12)	A	467	474	421	450	481	523
Current for Wiring Sizing (8)	A	480	480	463	495	528	572
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D SS| Silver Efficiency, Standard Sound							
Model		**705**	**760**	**835**	**960**	**C10**	**H10**
Cooling Capacity (1)	kW	706,1	760,3	837,7	960,2	1017	1064
Power input (1)	kW	235,4	225,2	258,7	301,2	332,2	351,6
Cooling Efficiency – EER (1)	kW/kW	2,999	3,376	3,238	3,188	3,062	3,026
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,2	5,547	5,714	5,615	5,536	5,55
$\eta_{s,c}$ (3)	%	205%	219%	226%	222%	218%	219%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,048	6,476	6,195	6,254	6,024	5,997
IPLV (5)	kW/kW	5,303	5,970	5,783	5,747	5,634	5,623
Minimum capacity turndown (11)	%	10%	12,5%	10,5%	11,5%	10,5%	10,5%
Flow rate (1)	l/s	33,7	36,3	40,0	45,8	48,5	50,7
Evaporator Pressure Drop (1)(6)	kPa	40,2	50,6	59,8	45,8	49,7	48,9
Sound Power (1)(7) **– Lw**	dB(a)	103	99	100	100	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	96	96	96	96	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	280,0	280,0	481,0	481,0	557,0
Minimum water flow rate (10)	l/s	10,7	12,9	12,9	15,3	15,3	18,2
Length	mm	6880	7960	7960	7960	7960	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5177	6151	6151	6623	6623	6816
Operating weight (8)	kg	5527	6536	6546	7239	7244	7518
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1
Running Current (1)(8)(12)	A	452	443	490	555	601	631
Max Running Current (7)(8)(12)	A	566	610	679	706	761	789
Current for Wiring Sizing (8)	A	572	671	747	776	837	868
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D SS| Silver Efficiency, Standard Sound							
Model		**H11**	**H12**	**H13**	**H14**	**H15**	**H16**
Cooling Capacity (1)	kW	1168	1281	1372	1482	1562	1665
Power input (1)	kW	384,5	412,6	451,9	500,2	485,4	542,2
Cooling Efficiency – EER (1)	kW/kW	3,037	3,105	3,035	2,962	3,217	3,070
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,562	5,714	5,673	5,529	5,707	5,633
$\eta_{s,c}$ (3)	%	219%	226%	224%	218%	225%	222%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,907	5,891	5,781	5,71	7,277	6,964
IPLV (5)	kW/kW	5,637	5,682	5,660	5,577	6,142	5,958
Minimum capacity turndown (11)	%	10%	10%	10%	10%	13,5%	12,5%
Flow rate (1)	l/s	55,7	61,1	65,4	70,6	74,5	79,4
Evaporator Pressure Drop (1)(6)	kPa	56,7	65,3	73,9	48,8	52,9	58,5
Sound Power (1)(7) **– Lw**	dB(a)	101	102	104	105	103	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	98	98	99	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	557,0	557,0	557,0	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	18,2	18,2	18,2	22,6	22,6	22,6
Length	mm	9040	11200	12280	12280	12280	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7297	8260	8742	9920	10323	10323
Operating weight (8)	kg	8014	8992	9489	11136	11549	11564
Water Connection Size	Ø mm	219,1	219,1	219,1	273	273	273
Running Current (1)(8)(12)	A	684	734	796	871	848	932
Max Running Current (7)(8)(12)	A	884	948	948	1156	1124	1227
Current for Wiring Sizing (8)	A	935	958	970	1271	1237	1280
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D SS| Silver Efficiency, Standard Sound

Model		H17	H18	H19
Cooling Capacity (1)	kW	1787	1876	1954
Power input (1)	kW	589,4	654,5	725,7
Cooling Efficiency – EER (1)	kW/kW	3,032	2,866	2,692
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,608	5,527	5,445
$\eta_{s,c}$ (3)	%	221%	218%	215%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,637	6,498	6,226
IPLV (5)	kW/kW	5,935	5,761	5,660
Minimum capacity turndown (11)	%	11,5%	10,5%	10%
Flow rate (1)	l/s	85,2	89,4	93,2
Evaporator Pressure Drop (1)(6)	kPa	65,9	71,2	75,9
Sound Power (1)(7) – Lw	dB(a)	105	106	107
Sound Power (1)(7) – Lw with + OP76b	dB(a)	99	99	99
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	13360	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	10805	10805	10805
Operating weight (8)	kg	12066	12076	12086
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	1005	1101	1206
Max Running Current (7)(8)(12)	A	1351	1475	1608
Current for Wiring Sizing (8)	A	1486	1621	1621
Max Inrush Current (8)(9)(12)	A	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XS| Gold Efficiency, Standard Sound							
Model		**295**	**345**	**380**	**440**	**515**	**565**
Cooling Capacity (1)	kW	294,4	344,4	378	434,8	507,9	560,5
Power input (1)	kW	89,4	102,5	116,8	120,6	150,0	162,0
Cooling Efficiency – EER (1)	kW/kW	3,293	3,361	3,237	3,605	3,387	3,460
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,605	6,007	5,961	6,165	6,019	6,251
$\eta_{s,c}$ (3)	%	221%	237%	235%	244%	238%	247%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,182	7,282	7,006	7,918	7,36	7,427
IPLV (5)	kW/kW	5,999	6,279	6,142	6,629	6,535	6,715
Minimum capacity turndown (11)	%	21,5%	19%	16,5%	27,5%	23%	21,5%
Flow rate (1)	l/s	14,1	16,4	18,0	20,7	24,2	26,7
Evaporator Pressure Drop (1)(6)	kPa	18,2	20,0	23,9	28,0	37,4	26,8
Sound Power (1)(7) **– Lw**	dB(a)	97	98	103	96	97	100
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	91	93	94	92	92	93
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	48,0	48,0	58,1	58,1	76,3
Minimum water flow rate (10)	l/s	7,6	8,5	8,5	10,2	10,2	13,4
Length	mm	3640	4720	4720	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3255	3775	3775	4569	4569	5136
Operating weight (8)	kg	3335	3868	3873	4687,1	4697,1	5287,3
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	189	217	236	248	292	316
Max Running Current (7)(8)(12)	A	224	261	289	314	342	404
Current for Wiring Sizing (8)	A	246	288	298	345	376	444
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XS| Gold Efficiency, Standard Sound							
Model		**635**	**705**	**760**	**525**	**565**	**610**
Cooling Capacity (1)	kW	629	701	757,3	524,3	565,9	610,7
Power input (1)	kW	190,8	207,2	233,1	146,6	163,3	177,0
Cooling Efficiency – EER (1)	kW/kW	3,297	3,383	3,249	3,577	3,466	3,451
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,146	5,552	5,308	6,002	5,937	5,999
$\eta_{s,c}$ (3)	%	243%	219%	209%	237%	234%	237%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,966	7,725	7,139	6,573	7,332	7,445
IPLV (5)	kW/kW	6,505	5,730	5,647	6,252	6,138	6,204
Minimum capacity turndown (11)	%	19%	30%	27,5%	12,5%	11,5%	10,5%
Flow rate (1)	l/s	30,0	33,4	36,1	25,0	27,0	29,1
Evaporator Pressure Drop (1)(6)	kPa	33,5	40,7	47,3	39,5	45,1	31,4
Sound Power (1)(7) **– Lw**	dB(a)	105	99	100	100	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	93	93	93	94	95
Number of circuits / Compressors	#	1	1	1	2	2	2
Water volume	Lt	76,3	76,3	76,3	255,0	255,0	255,0
Minimum water flow rate (10)	l/s	13,4	13,4	13,4	8,6	8,6	10,7
Length	mm	6880	6880	6880	6880	6880	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5136	5805	5805	5348	5348	5829
Operating weight (8)	kg	5297,3	5976,3	5986,3	5673	5683	6169
Water Connection Size	Ø mm	139,7	139,7	139,7	168,3	168,3	168,3
Running Current (1)(8)(12)	A	359	384	422	319	348	379
Max Running Current (7)(8)(12)	A	452	520	568	389	429	457
Current for Wiring Sizing (8)	A	491	572	625	428	472	503
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XS| Gold Efficiency, Standard Sound							
Model		**670**	**725**	**805**	**880**	**950**	**C10**
Cooling Capacity (1)	kW	668,1	724	802,3	877,7	949,4	993,6
Power input (1)	kW	201,3	219,5	233,2	250,8	282,1	292,3
Cooling Efficiency – EER (1)	kW/kW	3,319	3,299	3,440	3,499	3,366	3,399
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,891	5,94	6,088	6,355	6,192	6,365
$\eta_{s,c}$ (3)	%	233%	235%	241%	251%	245%	252%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,135	7,113	7,241	7,778	7,429	7,443
IPLV (5)	kW/kW	6,100	6,209	6,441	6,628	6,439	6,548
Minimum capacity turndown (11)	%	10%	10%	10%	13,5%	12,5%	11,5%
Flow rate (1)	l/s	31,9	34,5	38,3	41,9	45,3	47,4
Evaporator Pressure Drop (1)(6)	kPa	36,4	38,5	34,7	39,8	45,0	48,3
Sound Power (1)(7) **– Lw**	dB(a)	101	102	105	98	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	96	96	94	94	94
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	298,0	481,0	481,0	481,0	481,0
Minimum water flow rate (10)	l/s	10,7	14,3	15,3	15,3	15,3	15,3
Length	mm	7960	7960	9040	9040	9040	10120
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5829	5946	6904	7160	7160	7642
Operating weight (8)	kg	6174	6344	7495	7761	7771	8258
Water Connection Size	Ø mm	168,3	168,3	219,1	219,1	219,1	219,1
Running Current (1)(8)(12)	A	421	443	470	497	544	565
Max Running Current (7)(8)(12)	A	498	535	573	626	683	720
Current for Wiring Sizing (8)	A	548	585	607	689	751	792
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XS| Gold Efficiency, Standard Sound							
Model		**H10**	**H11**	**C12**	**H12**	**H13**	**H14**
Cooling Capacity (1)	kW	1062	1129	1194	1286	1359	1454
Power input (1)	kW	325,1	336,7	370,1	402,4	425,5	419,5
Cooling Efficiency – EER (1)	kW/kW	3,265	3,353	3,226	3,197	3,193	3,466
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,186	6,313	6,217	6,126	6,14	5,896
$\eta_{s,c}$ (3)	%	244%	250%	246%	242%	243%	233%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,176	6,829	6,996	6,897	6,804	7,857
IPLV (5)	kW/kW	6,397	6,549	6,373	6,280	6,287	6,065
Minimum capacity turndown (11)	%	10,5%	10,5%	10%	10%	10%	15%
Flow rate (1)	l/s	50,6	53,8	56,9	61,3	64,8	69,3
Evaporator Pressure Drop (1)(6)	kPa	53,7	53,7	58,8	39,3	42,7	47,4
Sound Power (1)(7) **– Lw**	dB(a)	102	103	105	108	106	102
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	95	95	95	95	96	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	481,0	557,0	557,0	557,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	15,3	18,2	18,2	18,2	22,6	22,6
Length	mm	10120	11200	11200	11200	12280	13360
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7642	8316	8316	8316	9655	10805
Operating weight (8)	kg	8268	9028	9038	9053	10856	12016
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273
Running Current (1)(8)(12)	A	614	638	687	737	778	774
Max Running Current (7)(8)(12)	A	782	744	803	851	899	997
Current for Wiring Sizing (8)	A	860	819	883	924	924	1097
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
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Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XS| Gold Efficiency, Standard Sound

Model		H15	H16	H17
Cooling Capacity (1)	kW	1567	1671	1770
Power input (1)	kW	472,2	528,4	590,4
Cooling Efficiency – EER (1)	kW/kW	3,318	3,163	2,997
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,807	5,723	5,629
$\eta_{s,c}$ (3)	%	229%	226%	222%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,404	6,993	6,778
IPLV (5)	kW/kW	6,296	6,166	5,970
Minimum capacity turndown (11)	%	13,5%	12,5%	11,5%
Flow rate (1)	l/s	74,7	79,7	84,4
Evaporator Pressure Drop (1)(6)	kPa	53,2	58,9	64,8
Sound Power (1)(7) – Lw	dB(a)	103	104	105
Sound Power (1)(7) – Lw with + OP76b	dB(a)	96	96	97
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	13360	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	10805	10805	10805
Operating weight (8)	kg	12031	12046	12061
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	852	935	1026
Max Running Current (7)(8)(12)	A	1103	1217	1330
Current for Wiring Sizing (8)	A	1214	1268	1463
Max Inrush Current (8)(9)(12)	A	0	0	0

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(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**295**	**345**	**380**	**440**	**515**	**565**
Cooling Capacity (1)	kW	290,7	340,9	373,4	431	502,3	555,4
Power input (1)	kW	89,1	101,1	116,3	118,5	149,8	160,2
Cooling Efficiency – EER (1)	kW/kW	3,262	3,371	3,211	3,636	3,353	3,468
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,507	5,938	5,866	6,042	5,901	6,159
$\eta_{s,c}$ (3)	%	217%	235%	232%	239%	233%	243%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,252	7,346	7,027	8,038	7,397	7,495
IPLV (5)	kW/kW	6,073	6,274	6,168	6,512	6,538	6,747
Minimum capacity turndown (11)	%	21,5%	19%	16,5%	27,5%	23%	21,5%
Flow rate (1)	l/s	13,9	16,3	17,8	20,6	24,0	26,5
Evaporator Pressure Drop (1)(6)	kPa	17,8	19,6	23,3	27,5	36,7	26,5
Sound Power (1)(7) **– Lw**	dB(a)	87	88	92	88	88	90
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	48,0	48,0	58,1	58,1	76,3
Minimum water flow rate (10)	l/s	7,6	8,5	8,5	10,2	10,2	13,4
Length	mm	3640	4720	4720	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3375	3895	3895	4689	4689	5256
Operating weight (8)	kg	3455	3988	3993	4807,1	4817,1	5407,3
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	194	222	242	253	300	324
Max Running Current (7)(8)(12)	A	224	261	289	314	342	404
Current for Wiring Sizing (8)	A	246	288	298	345	376	444
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**635**	**705**	**760**	**525**	**565**	**610**
Cooling Capacity (1)	kW	622,3	691,7	745,6	518,8	559,5	604,2
Power input (1)	kW	190,5	209,3	236,6	144,1	161,7	174,5
Cooling Efficiency – EER (1)	kW/kW	3,267	3,305	3,152	3,599	3,459	3,462
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,039	5,418	5,358	6,037	5,944	6,029
$\eta_{s,c}$ (3)	%	239%	214%	211%	238%	235%	238%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,045	7,378	7,343	7,652	7,372	7,498
IPLV (5)	kW/kW	6,571	5,813	5,773	6,294	6,174	6,230
Minimum capacity turndown (11)	%	19%	30%	27,5%	12,5%	11,5%	10,5%
Flow rate (1)	l/s	29,7	33,0	35,6	24,7	26,7	26,8
Evaporator Pressure Drop (1)(6)	kPa	32,9	39,7	45,9	38,7	44,3	30,9
Sound Power (1)(7) **– Lw**	dB(a)	93	90	90	90	90	91
Number of circuits / Compressors	#	1	1	1	2	2	2
Water volume	Lt	76,3	76,3	76,3	255,0	255,0	255,0
Minimum water flow rate (10)	l/s	13,4	13,4	13,4	8,6	8,6	10,7
Length	mm	6880	6880	6880	6880	6880	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5256	5925	5925	5468	5468	5949
Operating weight (8)	kg	5417,3	6096,3	6106,3	5793	5803	6289
Water Connection Size	Ø mm	139,7	139,7	139,7	168,3	168,3	168,3
Running Current (1)(8)(12)	A	369	396	436	326	357	388
Max Running Current (7)(8)(12)	A	452	520	568	389	429	457
Current for Wiring Sizing (8)	A	491	572	625	428	472	503
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**670**	**725**	**805**	**880**	**950**	**C10**
Cooling Capacity (1)	kW	660,4	714,9	792,9	867,7	937,7	982,6
Power input (1)	kW	200,1	219,2	231,9	250,8	283,9	292,8
Cooling Efficiency – EER (1)	kW/kW	3,300	3,261	3,419	3,460	3,303	3,356
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,922	5,964	6,169	6,363	6,179	6,354
$\eta_{s,c}$ (3)	%	234%	236%	244%	252%	244%	251%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,23	7,152	7,322	7,81	7,481	7,539
IPLV (5)	kW/kW	6,105	6,205	6,448	6,645	6,444	6,596
Minimum capacity turndown (11)	%	10%	10%	10%	13,5%	12,5%	11,5%
Flow rate (1)	l/s	31,5	34,1	37,8	41,4	44,7	46,9
Evaporator Pressure Drop (1)(6)	kPa	35,6	37,6	34,1	39,1	44,1	47,5
Sound Power (1)(7) **– Lw**	dB(a)	91	92	94	90	91	92
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	298,0	481,0	481,0	481,0	481,0
Minimum water flow rate (10)	l/s	10,7	14,3	15,3	15,3	15,3	15,3
Length	mm	7960	7960	9040	9040	9040	10120
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5949	6066	7024	7280	7280	7762
Operating weight (8)	kg	6294	6464	7615	7881	7891	8378
Water Connection Size	Ø mm	168,3	168,3	219,1	219,1	219,1	219,1
Running Current (1)(8)(12)	A	432	454	481	510	559	580
Max Running Current (7)(8)(12)	A	498	535	573	626	683	720
Current for Wiring Sizing (8)	A	548	585	607	689	751	792
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XR| Gold Efficiency, Reduced Sound							
Model		**H10**	**H11**	**C12**	**H12**	**H13**	**H14**
Cooling Capacity (1)	kW	1049	1117	1179	1268	1341	1434
Power input (1)	kW	327,6	338,0	373,2	408,0	430,2	424,5
Cooling Efficiency – EER (1)	kW/kW	3,201	3,304	3,160	3,197	3,116	3,379
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,217	6,34	6,191	6,12	6,181	5,883
$\eta_{s,c}$ (3)	%	246%	251%	245%	242%	244%	232%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,184	7,32	7,043	6,929	6,872	7,962
IPLV (5)	kW/kW	6,425	6,555	6,448	6,399	6,393	6,098
Minimum capacity turndown (11)	%	10,5%	10,5%	10%	10%	10%	15%
Flow rate (1)	l/s	50,0	53,3	56,2	60,5	63,9	68,4
Evaporator Pressure Drop (1)(6)	kPa	52,5	52,8	57,6	38,5	41,8	46,4
Sound Power (1)(7) **– Lw**	dB(a)	92	93	94	96	95	93
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	481,0	557,0	557,0	557,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	15,3	18,2	18,2	18,2	22,6	22,6
Length	mm	10120	11200	11200	11200	12280	13360
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7762	8436	8436	8436	9775	10925
Operating weight (8)	kg	8388	9148	9158	9173	10976	12136
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273
Running Current (1)(8)(12)	A	632	655	708	762	803	801
Max Running Current (7)(8)(12)	A	782	744	803	851	899	997
Current for Wiring Sizing (8)	A	860	819	883	924	924	1097
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D XR| Gold Efficiency, Reduced Sound				
Model		**H15**	**H16**	**H17**
Cooling Capacity (1)	kW	1049	1117	1179
Power input (1)	kW	327,6	338,0	373,2
Cooling Efficiency – EER (1)	kW/kW	3,201	3,304	3,160
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,217	6,34	6,191
$\eta_{s,c}$ (3)	%	246%	251%	245%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,184	7,32	7,043
IPLV (5)	kW/kW	6,425	6,555	6,448
Minimum capacity turndown (11)	%	10,5%	10,5%	10%
Flow rate (1)	l/s	50,0	53,3	56,2
Evaporator Pressure Drop (1)(6)	kPa	52,5	52,8	57,6
Sound Power (1)(7) **– Lw**	dB(a)	92	93	94
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	13360	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	10925	10925	10925
Operating weight (8)	kg	12151	12166	12181
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	883	971	1066
Max Running Current (7)(8)(12)	A	1103	1217	1330
Current for Wiring Sizing (8)	A	1214	1268	1463
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**285**	**330**	**370**	**405**	**450**	**490**
Cooling Capacity (1)	kW	285,8	330,4	367,9	401,5	447	486,1
Power input (1)	kW	77,8	92,0	106,0	105,2	117,3	130,3
Cooling Efficiency – EER (1)	kW/kW	3,676	3,591	3,472	3,818	3,810	3,731
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,29	6,465	6,389	6,687	6,64	6,567
$\eta_{s,c}$ (3)	%	249%	256%	253%	264%	263%	260%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	8,009	7,778	7,529	8,858	8,241	8,281
IPLV (5)	kW/kW	6,671	6,731	6,619	7,261	7,575	7,469
Minimum capacity turndown (11)	%	23%	20%	17,5%	30%	27,5%	25%
Flow rate (1)	l/s	13,6	15,8	17,6	19,2	21,3	23,2
Evaporator Pressure Drop (1)(6)	kPa	14,0	18,5	22,7	24,3	18,0	20,9
Sound Power (1)(7) **– Lw**	dB(a)	97	98	100	95	96	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	92	93	94	92	92	92
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	48,0	48,0	48,0	58,1	76,3	76,3
Minimum water flow rate (10)	l/s	8,5	8,5	8,5	10,2	13,4	13,4
Length	mm	4720	5800	5800	6880	6880	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3775	4256	4256	5050	5136	5136
Operating weight (8)	kg	3863	4349	4354	5163,1	5272,3	5277,3
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	174	204	229	233	249	269
Max Running Current (7)(8)(12)	A	220	258	285	293	352	404
Current for Wiring Sizing (8)	A	242	284	310	322	388	444
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**530**	**575**	**615**	**675**	**735**	**810**
Cooling Capacity (1)	kW	529,6	571,8	617,7	676,1	733,5	809,8
Power input (1)	kW	143,1	158,6	171,1	194,0	210,7	226,1
Cooling Efficiency – EER (1)	kW/kW	3,701	3,605	3,610	3,485	3,481	3,582
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,391	6,301	6,28	6,161	6,216	6,48
$\eta_{s,c}$ (3)	%	253%	249%	248%	243%	246%	256%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,981	7,746	7,754	7,453	7,468	7,557
IPLV (5)	kW/kW	6,684	6,562	6,506	6,371	6,478	6,804
Minimum capacity turndown (11)	%	12,5%	11,5%	10,5%	10%	10%	10%
Flow rate (1)	l/s	25,3	27,3	29,5	32,2	35,0	38,6
Evaporator Pressure Drop (1)(6)	kPa	40,2	46,0	31,9	27,2	39,3	35,2
Sound Power (1)(7) **– Lw**	dB(a)	100	100	101	101	102	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	96	96	97
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	255,0	255,0	255,0	298,0	481,0
Minimum water flow rate (10)	l/s	8,6	8,6	10,7	10,7	14,3	15,3
Length	mm	7960	7960	9040	9040	9040	10120
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5829	5829	6311	6311	6427	7385
Operating weight (8)	kg	6159	6164	6651	6661	6825	7976
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	168,3	219,1
Running Current (1)(8)(12)	A	318	345	374	414	442	466
Max Running Current (7)(8)(12)	A	399	429	468	508	535	573
Current for Wiring Sizing (8)	A	439	472	514	559	585	607
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**890**	**960**	**C10**	**H10**	**H11**	**C12**
Cooling Capacity (1)	kW	885,5	958,4	1003	1072	1137	1203
Power input (1)	kW	242,4	271,7	281,9	312,5	325,9	357,4
Cooling Efficiency – EER (1)	kW/kW	3,653	3,527	3,556	3,430	3,489	3,367
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,725	6,602	6,648	6,483	6,529	6,398
$\eta_{s,c}$ (3)	%	266%	261%	263%	256%	258%	253%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	8,182	7,826	7,761	7,35	7,573	7,1
IPLV (5)	kW/kW	7,042	6,768	6,512	6,681	6,925	6,736
Minimum capacity turndown (11)	%	13,5%	12,5%	11,5%	10,5%	10,5%	10%
Flow rate (1)	l/s	42,2	45,7	47,8	51,1	54,2	57,4
Evaporator Pressure Drop (1)(6)	kPa	40,4	45,7	49,0	54,2	54,3	59,5
Sound Power (1)(7) **– Lw**	dB(a)	99	100	101	102	103	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	95	95	95
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	481,0	481,0	481,0	481,0	557,0	557,0
Minimum water flow rate (10)	l/s	15,3	15,3	15,3	15,3	18,2	18,2
Length	mm	10120	10120	11200	11200	12280	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7642	7642	8123	8123	8798	8798
Operating weight (8)	kg	8243	8253	8744	8754	9515	9520
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	219,1	219,1
Running Current (1)(8)(12)	A	490	534	555	601	627	674
Max Running Current (7)(8)(12)	A	616	672	709	761	796	845
Current for Wiring Sizing (8)	A	677	740	780	837	876	929
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PS| Platinum Efficiency, Standard Sound					
Model		**H12**	**H13**	**H14**	**H15**
Cooling Capacity [1]	kW	1298	1372	1455	1568
Power input [1]	kW	387,4	409,1	409,5	462,1
Cooling Efficiency – EER [1]	kW/kW	3,350	3,353	3,552	3,393
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,263	6,31	5,978	5,928
$\eta_{s,c}$ [3]	%	248%	249%	236%	234%
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	7,165	6,98	8,149	7,532
IPLV [5]	kW/kW	6,601	6,646	6,239	6,468
Minimum capacity turndown [11]	%	10%	10%	15%	13,5%
Flow rate [1]	l/s	61,9	65,4	69,4	74,8
Evaporator Pressure Drop [1][6]	kPa	39,8	43,3	47,4	53,3
Sound Power [1][7] **– Lw**	dB(a)	108	106	102	103
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	95	96	96	96
Number of circuits / Compressors	#	2	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0	1011,0
Minimum water flow rate [10]	l/s	22,6	22,6	22,6	22,6
Length	mm	12280	13360	13360	13360
Width	mm	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553
Shipping weight [8]	kg	9655	10136	10805	10805
Operating weight [8]	kg	10846	11337	12021	12036
Water Connection Size	Ø mm	273	273	273	273
Running Current [1][8][12]	A	721	759	759	837
Max Running Current [7][8][12]	A	893	951	1039	1135
Current for Wiring Sizing [8]	A	982	1021	1143	1248
Max Inrush Current [8][9][12]	A	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PR| Platinum Efficiency, Reduced Sound							
Model		**285**	**335**	**370**	**405**	**450**	**490**
Cooling Capacity (1)	kW	283,7	328,4	365	398,8	443,9	482,4
Power input (1)	kW	75,1	88,5	103,1	101,0	113,6	127,2
Cooling Efficiency – EER (1)	kW/kW	3,776	3,710	3,540	3,950	3,909	3,793
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,232	6,448	6,358	6,622	6,542	6,467
$\eta_{s,c}$ (3)	%	246%	255%	251%	262%	259%	256%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	8,038	7,892	7,621	8,616	8,641	8,327
IPLV (5)	kW/kW	6,654	6,767	6,618	7,204	7,481	7,374
Minimum capacity turndown (11)	%	23%	20%	17,5%	30%	27,5%	25%
Flow rate (1)	l/s	13,5	15,7	17,4	19,0	21,2	23,0
Evaporator Pressure Drop (1)(6)	kPa	13,8	18,3	22,3	24,0	17,4	20,6
Sound Power (1)(7) **– Lw**	dB(a)	88	89	90	88	88	89
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	48,0	48,0	48,0	58,1	76,3	76,3
Minimum water flow rate (10)	l/s	8,5	8,5	8,5	10,2	13,4	13,4
Length	mm	4720	5800	5800	6880	6880	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3895	4376	4376	5170	5256	5256
Operating weight (8)	kg	3983	4469	4474	5283,1	5392,3	5397,3
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	177	207	233	236	253	274
Max Running Current (7)(8)(12)	A	220	258	285	293	352	404
Current for Wiring Sizing (8)	A	242	284	310	322	388	444
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PR| Platinum Efficiency, Reduced Sound							
Model		**530**	**575**	**615**	**675**	**735**	**810**
Cooling Capacity (1)	kW	524,8	566,5	612,5	669,9	726	801,7
Power input (1)	kW	139,0	155,2	166,8	190,7	208,2	222,8
Cooling Efficiency – EER (1)	kW/kW	3,775	3,650	3,672	3,512	3,487	3,599
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,421	6,322	6,325	6,183	6,254	6,51
$\eta_{s,c}$ (3)	%	254%	250%	250%	244%	247%	257%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	8,049	7,828	7,773	7,54	7,483	7,574
IPLV (5)	kW/kW	6,693	6,581	6,539	6,409	6,497	6,831
Minimum capacity turndown (11)	%	12,5%	11,5%	10,5%	10%	10%	10%
Flow rate (1)	l/s	25,0	27,0	29,2	32,0	34,6	38,2
Evaporator Pressure Drop (1)(6)	kPa	39,6	45,2	31,5	36,5	38,6	34,7
Sound Power (1)(7) **– Lw**	dB(a)	91	91	91	91	92	94
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	255,0	255,0	255,0	298,0	481,0
Minimum water flow rate (10)	l/s	8,6	8,6	10,7	10,7	14,3	15,3
Length	mm	7960	7960	9040	9040	9040	10120
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5949	5949	6431	6431	6547	7505
Operating weight (8)	kg	6279	6284	6771	6781	6945	8096
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	168,3	219,1
Running Current (1)(8)(12)	A	324	353	381	423	448	475
Max Running Current (7)(8)(12)	A	399	429	468	508	535	573
Current for Wiring Sizing (8)	A	439	472	514	559	585	607
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PR| Platinum Efficiency, Reduced Sound							
Model		**890**	**960**	**C10**	**H10**	**C11**	**C12**
Cooling Capacity (1)	kW	876,7	948,2	993	1061	1126	1190
Power input (1)	kW	240,2	271,1	280,0	312,2	324,7	357,7
Cooling Efficiency – EER (1)	kW/kW	3,650	3,497	3,546	3,398	3,468	3,328
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,771	6,598	6,661	6,515	6,683	6,555
$\eta_{s,c}$ (3)	%	268%	261%	263%	258%	264%	259%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	8,22	7,785	7,782	7,539	7,645	7,25
IPLV (5)	kW/kW	7,134	6,900	6,914	6,725	6,955	6,744
Minimum capacity turndown (11)	%	13,5%	12,5%	11,5%	10,5%	10,5%	10%
Flow rate (1)	l/s	41,8	45,2	47,4	50,6	53,7	56,8
Evaporator Pressure Drop (1)(6)	kPa	39,8	44,9	48,3	53,6	53,5	58,5
Sound Power (1)(7) **– Lw**	dB(a)	90	91	92	92	93	95
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	481,0	481,0	481,0	481,0	557,0	557,0
Minimum water flow rate (10)	l/s	15,3	15,3	15,3	15,3	18,2	18,2
Length	mm	10120	10120	11200	11200	12280	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7762	7762	8243	8243	8918	8918
Operating weight (8)	kg	8363	8373	8864	8874	9635	9640
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	219,1	219,1
Running Current (1)(8)(12)	A	501	548	569	617	643	692
Max Running Current (7)(8)(12)	A	616	672	709	761	796	845
Current for Wiring Sizing (8)	A	677	740	780	837	876	929
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAD TZ-D PR| Platinum Efficiency, Reduced Sound					
Model		**H12**	**H13**	**H14**	**H15**
Cooling Capacity (1)	kW	1282	1356	1435	1544
Power input (1)	kW	389,9	410,4	413,9	469,4
Cooling Efficiency – EER (1)	kW/kW	3,288	3,304	3,468	3,289
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,433	6,432	6,055	5,932
$\eta_{s,c}$ (3)	%	254%	254%	239%	234%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,187	7,045	8,186	7,543
IPLV (5)	kW/kW	6,712	6,649	6,276	6,087
Minimum capacity turndown (11)	%	10%	10%	15%	13,5%
Flow rate (1)	l/s	61,1	64,7	68,4	73,6
Evaporator Pressure Drop (1)(6)	kPa	39,1	42,6	46,4	52,0
Sound Power (1)(7) **– Lw**	dB(a)	96	95	93	93
Number of circuits / Compressors	#	2	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6	22,6
Length	mm	12280	13360	13360	13360
Width	mm	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553
Shipping weight (8)	kg	9775	10256	10925	10925
Operating weight (8)	kg	10966	11457	12141	12156
Water Connection Size	Ø mm	273	273	273	273
Running Current (1)(8)(12)	A	742	780	785	867
Max Running Current (7)(8)(12)	A	893	951	1039	1135
Current for Wiring Sizing (8)	A	982	1021	1143	1248
Max Inrush Current (8)(9)(12)	A	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
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(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D BS| Blue Efficiency, Standard Sound							
Model		**275**	**320**	**345**	**400**	**470**	**525**
Cooling Capacity (1)	kW	258,8	310,6	338,2	405,8	451,2	505,5
Power input (1)	kW	97,8	106,4	122,7	145,2	170,8	178,3
Cooling Efficiency – EER (1)	kW/kW	2,646	2,919	2,756	2,795	2,642	2,835
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,283	4,430	4,417	4,578	4,563	4,587
$\eta_{s,c}$ (3)	%	168%	174%	174%	180%	180%	180%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,209	5,369	5,223	5,310	5,350	5,309
IPLV (5)	kW/kW	4,324	4,451	4,441	4,699	4,584	4,607
Minimum capacity turndown (11)	%	22%	19%	17%	22%	23%	22%
Flow rate (1)	l/s	12,4	14,8	16,1	19,4	21,5	24,1
Evaporator Pressure Drop (1)(6)	kPa	24,6	20,2	23,8	44,0	53,6	37,1
Sound Power (1)(7) **– Lw**	dB(a)	97	98	100	97	97	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	92	94	94	92	92	94
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	40,0	40,0	42,7	42,7	58,1
Minimum water flow rate (10)	l/s	7,6	7,6	7,6	5,9	5,9	10,2
Length	mm	2560	3640	3640	3640	3640	4720
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	2602	3084	3084	3486	3486	4032
Operating weight (8)	kg	2677	3169	3169	3584	3594	4160
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	190	207	229	262	300	315
Max Running Current (7)(8)(12)	A	220	262	284	346	362	400
Current for Wiring Sizing (8)	A	242	287	287	381	398	440
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D BS| Blue Efficiency, Standard Sound							
Model		**580**	**625**	**755**	**830**	**915**	**C10**
Cooling Capacity (1)	kW	554,9	597,4	734,0	800,1	884,2	953,9
Power input (1)	kW	210,4	244,8	246,3	284,8	319,3	371,9
Cooling Efficiency – EER (1)	kW/kW	2,637	2,440	2,980	2,809	2,769	2,565
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,661	4,552	4,585	4,585	4,686	4,681
$\eta_{s,c}$ (3)	%	183%	179%	180%	180%	184%	184%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,168	5,013	5,524	5,308	5,527	5,215
IPLV (5)	kW/kW	4,524	4,535	4,752	4,701	4,739	4,724
Minimum capacity turndown (11)	%	19%	17%	13%	11%	13%	11%
Flow rate (1)	l/s	26,5	28,5	35,0	38,2	42,2	45,5
Evaporator Pressure Drop (1)(6)	kPa	44,2	50,7	47,7	54,8	40,3	45,3
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	100	99	100
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	95	95	95
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume	Lt	58,1	58,1	280,0	280,0	481,0	481,0
Minimum water flow rate (10)	l/s	10,2	10,2	12,9	12,9	15,3	15,3
Length	mm	4720	4720	6880	6880	6880	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4032	4032	5670	5670	6142	6142
Operating weight (8)	kg	4170	4175	6055	6065	6748	6763
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	219,1	219,1
Running Current (1)(8)(12)	A	363	414	457	515	568	647
Max Running Current (7)(8)(12)	A	457	464	600	668	668	751
Current for Wiring Sizing (8)	A	468	468	660	735	735	826
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D BS| Blue Efficiency, Standard Sound							
Model		**H10**	**H11**	**C12**	**C13**	**C14**	**C15**
Cooling Capacity (1)	kW	1050,0	1127,0	1197,0	1293,0	1359,6	1483,5
Power input (1)	kW	393,3	411,8	434,6	472,69	519,86	558,8
Cooling Efficiency – EER (1)	kW/kW	2,670	2,737	2,754	2,735	2,615	2,655
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,681	4,693	4,702	4,657	4,646	4,584
$\eta_{s,c}$ (3)	%	184%	185%	185%	183%	183%	180%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,388	5,270	5,232	5,155	4,997	5,000
IPLV (5)	kW/kW	4,765	4,751	4,718	4,645	4,608	4,597
Minimum capacity turndown (11)	%	10%	10%	10%	10%	10%	10%
Flow rate (1)	l/s	50,1	53,7	57,1	61,7	64,8	70,7
Evaporator Pressure Drop (1)(6)	kPa	47,8	53,5	59,0	66,4	72,8	48,9
Sound Power (1)(7) **– Lw**	dB(a)	101	101	102	104	105	106
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	97	97	98	98	99
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	557,0	557,0	557,0	557,0	557,0	1011,0
Minimum water flow rate (10)	l/s	18,2	18,2	18,2	18,2	18,2	22,6
Length	mm	7960	9040	10120	11200	11200	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	6816	7297	7779	8260	8581	9920
Operating weight (8)	kg	7523	8014	8506	9002	9333	11146
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	219,1	273,0
Running Current (1)(8)(12)	A	682	712	748	807	876	940
Max Running Current (7)(8)(12)	A	817	884	930	948	1120	1200
Current for Wiring Sizing (8)	A	896	935	947	958	1232	1275
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D BS| Blue Efficiency, Standard Sound					
Model		**H16**	**H17**	**H18**	**H19**
Cooling Capacity [1]	kW	1606,0	1688,0	1799,6	1868,0
Power input [1]	kW	581,2	647,2	699,0	775,2
Cooling Efficiency – EER [1]	kW/kW	2,763	2,608	2,574	2,410
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	4,866	4,813	4,745	4,753
$\eta_{s,c}$ [3]	%	192%	190%	187%	187%
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,187	6,012	5,791	5,789
IPLV [5]	kW/kW	5,195	5,178	5,097	5,058
Minimum capacity turndown [11]	%	13%	12%	11%	10%
Flow rate [1]	l/s	76,6	80,5	85,8	89,1
Evaporator Pressure Drop [1][6]	kPa	55,0	59,9	66,6	70,8
Sound Power [1][7] **– Lw**	dB(a)	104	105	106	107
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	98	99	99	99
Number of circuits / Compressors	#	2	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0	1011,0
Minimum water flow rate [10]	l/s	22,6	22,6	22,6	22,6
Length	mm	12280	12280	13360	13360
Width	mm	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553
Shipping weight [8]	kg	10323	10323	10805	10805
Operating weight [8]	kg	11564	11579	12076	12086
Water Connection Size	Ø mm	273,0	273,0	273,0	273,0
Running Current [1][8][12]	A	972	1069	1148,4	1261
Max Running Current [7][8][12]	A	1227	1340	1475	1608
Current for Wiring Sizing [8]	A	1280	1474	1621	1621
Max Inrush Current [8][9][12]	A	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D SS| Silver Efficiency, Standard Sound							
Model		**285**	**325**	**380**	**430**	**495**	**535**
Cooling Capacity (1)	kW	284,9	329,3	374,3	426,2	487,5	529,7
Power input (1)	kW	89,3	103,6	120,5	138,8	161,5	170,5
Cooling Efficiency – EER (1)	kW/kW	3,192	3,179	3,106	3,071	3,019	3,107
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,213	5,429	5,542	5,210	5,100	5,318
$\eta_{s,c}$ (3)	%	206%	214%	219%	205%	201%	210%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,274	6,329	6,294	6,038	6,063	6,074
IPLV (5)	kW/kW	5,486	5,635	5,651	5,771	5,584	5,743
Minimum capacity turndown (11)	%	22%	19%	17%	22%	23%	22%
Flow rate (1)	l/s	13,6	15,7	17,9	20,3	23,3	25,3
Evaporator Pressure Drop (1)(6)	kPa	17,2	18,4	37,9	48,3	34,8	40,3
Sound Power (1)(7) **– Lw**	dB(a)	98	98	100	98	97	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	95	95	94	93	94
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	48,0	48,0	42,7	58,1	58,1
Minimum water flow rate (10)	l/s	7,6	8,5	5,9	5,9	10,2	10,2
Length	mm	3640	4720	4720	4720	4720	5800
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3084	3604	3604	3968	4032	4513
Operating weight (8)	kg	3164	3697	3702	4071	4155	4646
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	183	212	234	262	297	315
Max Running Current (7)(8)(12)	A	231	272	294	357	372	411
Current for Wiring Sizing (8)	A	254	298	298	392	410	452
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D SS| Silver Efficiency, Standard Sound							
Model		**595**	**650**	**520**	**555**	**585**	**645**
Cooling Capacity (1)	kW	585,6	635,1	522,0	553,9	583,2	645,1
Power input (1)	kW	200,1	231,0	172,1	188,8	206,6	214,8
Cooling Efficiency – EER (1)	kW/kW	2,927	2,749	3,033	2,934	2,823	3,003
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,215	5,240	4,854	4,975	4,882	5,024
$\eta_{s,c}$ (3)	%	206%	207%	191%	196%	192%	198%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,786	5,507	6,044	5,872	5,851	6,031
IPLV (5)	kW/kW	5,592	5,451	5,192	5,121	5,050	5,208
Minimum capacity turndown (11)	%	19%	17%	11%	10%	10%	10%
Flow rate (1)	l/s	27,9	30,3	24,9	26,4	27,8	30,8
Evaporator Pressure Drop (1)(6)	kPa	48,9	56,6	31,7	35,3	38,6	34,1
Sound Power (1)(7) **– Lw**	dB(a)	98	101	99	99	101	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	95	95	96	96	97
Number of circuits / Compressors	#	1	1	2	2	2	2
Water volume	Lt	58,1	58,1	270,0	270,0	270,0	255,0
Minimum water flow rate (10)	l/s	10,2	10,2	8,6	8,6	8,6	10,7
Length	mm	5800	5800	5800	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	4513	4513	4693	4693	4693	5177
Operating weight (8)	kg	4651	4661	5033	5038	5043	5522
Water Connection Size	Ø mm	139,7	139,7	168,3	168,3	168,3	168,3
Running Current (1)(8)(12)	A	358	404	350	379	410	428
Max Running Current (7)(8)(12)	A	467	474	421	450	481	523
Current for Wiring Sizing (8)	A	480	480	463	495	528	572
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D SS| Silver Efficiency, Standard Sound							
Model		**705**	**760**	**835**	**960**	**C10**	**H10**
Cooling Capacity (1)	kW	702,3	758,2	832,7	948,8	1001,0	1043,0
Power input (1)	kW	249,4	239,4	274,7	321,4	354,4	375,0
Cooling Efficiency – EER (1)	kW/kW	2,816	3,167	3,031	2,952	2,824	2,781
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	4,929	4,987	5,228	5,319	5,236	5,223
$\eta_{s,c}$ (3)	%	194%	196%	206%	210%	206%	206%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,823	6,332	6,046	6,097	5,898	5,834
IPLV (5)	kW/kW	5,105	5,729	5,599	5,518	5,436	5,461
Minimum capacity turndown (11)	%	10%	13%	11%	12%	11%	11%
Flow rate (1)	l/s	33,5	36,2	39,7	45,3	47,8	49,8
Evaporator Pressure Drop (1)(6)	kPa	39,8	50,3	59,1	45,0	48,9	47,4
Sound Power (1)(7) **– Lw**	dB(a)	103	99	100	100	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	96	96	96	96	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	280,0	280,0	481,0	481,0	557,0
Minimum water flow rate (10)	l/s	10,7	12,9	12,9	15,3	15,3	18,2
Length	mm	6880	7960	7960	7960	7960	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5177	6151	6151	6623	6623	6816
Operating weight (8)	kg	5527	6536	6546	7239	7244	7518
Water Connection Size	Ø mm	168,3	168,3	168,3	219,1	219,1	219,1
Running Current (1)(8)(12)	A	473	461	514	586	635	666
Max Running Current (7)(8)(12)	A	566	610	679	706	761	789
Current for Wiring Sizing (8)	A	572	671	747	776	837	868
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D SS| Silver Efficiency, Standard Sound							
Model		**H11**	**H12**	**H13**	**H14**	**H15**	**H16**
Cooling Capacity (1)	kW	1149,0	1268,0	1359,0	1465,0	1542,0	1638,0
Power input (1)	kW	408,9	436,8	477,3	526,1	516,5	577,2
Cooling Efficiency – EER (1)	kW/kW	2,810	2,903	2,847	2,785	2,985	2,838
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,266	5,377	5,390	5,229	5,467	5,359
$\eta_{s,c}$ (3)	%	208%	212%	213%	206%	216%	211%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	5,752	5,764	5,648	5,565	7,091	6,488
IPLV (5)	kW/kW	5,433	5,506	5,504	5,414	6,060	5,915
Minimum capacity turndown (11)	%	10%	10%	10%	10%	14%	13%
Flow rate (1)	l/s	54,8	60,5	64,8	69,9	73,5	78,1
Evaporator Pressure Drop (1)(6)	kPa	55,2	64,1	72,7	47,9	51,9	56,8
Sound Power (1)(7) **– Lw**	dB(a)	101	102	104	105	103	104
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	97	98	98	99	98	98
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	557,0	557,0	557,0	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	18,2	18,2	18,2	22,6	22,6	22,6
Length	mm	9040	11200	12280	12280	12280	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7297	8260	8742	9920	10323	10323
Operating weight (8)	kg	8014	8992	9489	11136	11549	11564
Water Connection Size	Ø mm	219,1	219,1	219,1	273,0	273,0	273,0
Running Current (1)(8)(12)	A	721	771	835	910	895	984
Max Running Current (7)(8)(12)	A	884	948	1187	1156	1124	1227
Current for Wiring Sizing (8)	A	935	958	1248	1271	1237	1280
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D SS| Silver Efficiency, Standard Sound				
Model		**H17**	**H18**	**H19**
Cooling Capacity (1)	kW	1756,0	1837,0	1837,0
Power input (1)	kW	627,5	695,5	695,5
Cooling Efficiency – EER (1)	kW/kW	2,798	2,641	2,641
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,376	5,294	5,076
$\eta_{s,c}$ (3)	%	212%	209%	200%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,502	6,206	6,016
IPLV (5)	kW/kW	5,815	5,662	5,535
Minimum capacity turndown (11)	%	12%	11%	10%
Flow rate (1)	l/s	83,7	87,6	87,6
Evaporator Pressure Drop (1)(6)	kPa	64,0	68,9	68,9
Sound Power (1)(7) **– Lw**	dB(a)	105	106	107
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	99	99	99
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	13360	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	10805	10805	10805
Operating weight (8)	kg	12066	12076	12086
Water Connection Size	Ø mm	273,0	273,0	273,0
Running Current (1)(8)(12)	A	1062	1163	1163
Max Running Current (7)(8)(12)	A	1351	1475	1608
Current for Wiring Sizing (8)	A	1486	1621	1621
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D XS| Gold Efficiency, Standard Sound							
Model		**295**	**345**	**380**	**440**	**515**	**565**
Cooling Capacity (1)	kW	293,5	344,9	377,1	435,9	506,6	560,5
Power input (1)	kW	94,9	108,5	124,1	127,6	159,3	171,5
Cooling Efficiency – EER (1)	kW/kW	3,093	3,179	3,039	3,416	3,180	3,268
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,271	5,592	5,683	5,813	5,649	5,873
$\eta_{s,c}$ (3)	%	208%	221%	224%	230%	223%	232%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,769	6,954	6,773	7,730	6,969	7,273
IPLV (5)	kW/kW	5,813	6,074	5,939	6,322	6,066	6,462
Minimum capacity turndown (11)	%	22%	19%	17%	28%	23%	22%
Flow rate (1)	l/s	14,0	16,5	18,0	20,8	24,2	26,7
Evaporator Pressure Drop (1)(6)	kPa	18,1	20,1	23,8	28,1	37,2	26,8
Sound Power (1)(7) **– Lw**	dB(a)	97	98	103	96	97	100
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	91	93	94	92	92	93
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	40,0	48,0	48,0	58,1	58,1	76,3
Minimum water flow rate (10)	l/s	7,6	8,5	8,5	10,2	10,2	13,4
Length	mm	3640	4720	4720	5800	5800	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3255	3775	3775	4569	4569	5136
Operating weight (8)	kg	3335	3868	3873	4687	4697	5287
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	198	227	247	258	306	331
Max Running Current (7)(8)(12)	A	224	261	289	314	342	404
Current for Wiring Sizing (8)	A	246	288	298	345	376	444
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D XS| Gold Efficiency, Standard Sound							
Model		**635**	**705**	**760**	**525**	**565**	**610**
Cooling Capacity (1)	kW	626,7	696,1	749,1	524,4	560,5	610,4
Power input (1)	kW	202,4	220,6	248,3	155,0	171,5	187,8
Cooling Efficiency – EER (1)	kW/kW	3,096	3,155	3,017	3,383	3,268	3,250
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,746	5,356	5,244	5,655	5,599	5,633
$\eta_{s,c}$ (3)	%	227%	211%	207%	223%	221%	222%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,816	7,475	7,110	5,925	7,056	7,127
IPLV (5)	kW/kW	6,230	5,604	5,548	6,005	5,927	5,981
Minimum capacity turndown (11)	%	19%	30%	28%	13%	12%	11%
Flow rate (1)	l/s	29,9	33,2	35,7	25,0	26,7	29,1
Evaporator Pressure Drop (1)(6)	kPa	33,3	40,1	46,3	39,5	26,8	31,4
Sound Power (1)(7) **– Lw**	dB(a)	105	99	100	100	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	93	93	93	93	94	95
Number of circuits / Compressors	#	1	1	1	2	2	2
Water volume	Lt	76,3	76,3	76,3	255,0	255,0	255,0
Minimum water flow rate (10)	l/s	13,4	13,4	13,4	8,6	8,6	10,7
Length	mm	6880	6880	6880	6880	6880	7960
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5136	5805	5805	5348	5348	5829
Operating weight (8)	kg	5297	5976	5986	5673	5683	6169
Water Connection Size	Ø mm	139,7	139,7	139,7	168,3	168,3	168,3
Running Current (1)(8)(12)	A	377	404	445	334	331	398
Max Running Current (7)(8)(12)	A	452	520	568	389	429	457
Current for Wiring Sizing (8)	A	491	572	625	428	472	503
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D XS| Gold Efficiency, Standard Sound							
Model		**670**	**725**	**805**	**880**	**950**	**C10**
Cooling Capacity (1)	kW	665,8	719,7	794,9	873,2	941,6	988,1
Power input (1)	kW	214,2	233,6	246,2	266,2	300,2	310,7
Cooling Efficiency – EER (1)	kW/kW	3,108	3,081	2,970	3,280	3,137	3,180
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,538	5,592	5,669	5,963	5,824	5,938
$\eta_{s,c}$ (3)	%	219%	221%	224%	236%	230%	235%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,874	6,864	6,871	7,547	7,172	7,247
IPLV (5)	kW/kW	5,846	5,939	6,028	6,380	6,183	6,297
Minimum capacity turndown (11)	%	10%	10%	10%	14%	13%	12%
Flow rate (1)	l/s	31,8	34,3	37,9	41,6	44,9	47,1
Evaporator Pressure Drop (1)(6)	kPa	36,1	38,1	34,2	39,5	44,4	47,9
Sound Power (1)(7) **– Lw**	dB(a)	101	102	105	98	100	101
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	96	96	96	94	94	94
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	298,0	481,0	481,0	481,0	481,0
Minimum water flow rate (10)	l/s	10,7	14,3	15,3	15,3	15,3	15,3
Length	mm	7960	7960	9040	9040	9040	10120
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5829	5946	6904	7160	7160	7642
Operating weight (8)	kg	6174	6344	7495	7761	7771	8258
Water Connection Size	Ø mm	168,3	168,3	219,1	219,1	219,1	219,1
Running Current (1)(8)(12)	A	443	465	466	520	571	593
Max Running Current (7)(8)(12)	A	498	535	573	626	683	720
Current for Wiring Sizing (8)	A	548	585	607	689	751	792
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D XS| Gold Efficiency, Standard Sound							
Model		**H10**	**H11**	**C12**	**H12**	**H13**	**H14**
Cooling Capacity (1)	kW	1052,0	1122,0	1183,0	1267,2	1344,0	1442,0
Power input (1)	kW	346,2	357,9	393,7	426,7	452,1	446,3
Cooling Efficiency – EER (1)	kW/kW	3,039	3,135	3,005	2,970	2,973	3,231
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,823	5,917	5,806	5,658	5,703	5,723
$\eta_{s,c}$ (3)	%	230%	234%	229%	223%	225%	226%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,925	7,066	6,753	6,624	6,612	7,959
IPLV (5)	kW/kW	6,088	6,298	6,128	5,976	6,050	6,093
Minimum capacity turndown (11)	%	11%	11%	10%	10%	10%	15%
Flow rate (1)	l/s	50,2	53,5	56,4	60,4	64,1	68,8
Evaporator Pressure Drop (1)(6)	kPa	52,9	53,2	57,9	38,4	42,0	46,8
Sound Power (1)(7) **– Lw**	dB(a)	102	103	105	108	106	102
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	95	95	95	95	96	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	481,0	557,0	557,0	557,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	15,3	18,2	18,2	18,2	22,6	22,6
Length	mm	10120	11200	11200	11200	12280	13360
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7642	8316	8316	8316	9655	10805
Operating weight (8)	kg	8268	9028	9038	9053	10856	12016
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273
Running Current (1)(8)(12)	A	646	670	723	744	818	815
Max Running Current (7)(8)(12)	A	782	744	803	851	899	997
Current for Wiring Sizing (8)	A	860	819	883	924	924	1097
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D XS| Gold Efficiency, Standard Sound							
Model		**H10**	**H11**	**C12**	**H12**	**H13**	**H14**
Cooling Capacity (1)	kW	1052,0	1122,0	1183,0	1300,0	1344,0	1442,0
Power input (1)	kW	346,2	357,9	393,7	444,1	452,1	446,3
Cooling Efficiency – EER (1)	kW/kW	3,039	3,135	3,005	2,927	2,973	3,231
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,823	5,917	5,806	5,658	5,703	5,723
$\eta_{s,c}$ (3)	%	230%	234%	229%	223%	225%	226%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,925	7,066	6,753	6,624	6,612	7,959
IPLV (5)	kW/kW	6,088	6,298	6,128	5,976	6,050	6,093
Minimum capacity turndown (11)	%	11%	11%	10%	10%	10%	15%
Flow rate (1)	l/s	50,2	53,5	56,4	62,0	64,1	68,8
Evaporator Pressure Drop (1)(6)	kPa	52,9	53,2	57,9	39,9	42,0	46,8
Sound Power (1)(7) **– Lw**	dB(a)	102	103	105	108	106	102
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	95	95	95	95	96	96
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	481,0	557,0	557,0	557,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	15,3	18,2	18,2	18,2	22,6	22,6
Length	mm	10120	11200	11200	11200	12280	13360
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7642	8316	8316	8316	9655	10805
Operating weight (8)	kg	8268	9028	9038	9053	10856	12016
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	273	273
Running Current (1)(8)(12)	A	646	670	723	800	818	815
Max Running Current (7)(8)(12)	A	782	744	803	851	899	997
Current for Wiring Sizing (8)	A	860	819	883	924	924	1097
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D XS| Gold Efficiency, Standard Sound

Model		H15	H16	H17
Cooling Capacity (1)	kW	1551,0	1645,0	1734,0
Power input (1)	kW	503,1	562,8	628,6
Cooling Efficiency – EER (1)	kW/kW	3,083	2,923	2,759
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,580	5,489	5,383
$\eta_{s,c}$ (3)	%	220%	217%	212%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,265	6,886	6,466
IPLV (5)	kW/kW	6,247	6,072	5,877
Minimum capacity turndown (11)	%	14%	13%	12%
Flow rate (1)	l/s	74,0	78,4	82,7
Evaporator Pressure Drop (1)(6)	kPa	52,4	57,3	62,6
Sound Power (1)(7) – Lw	dB(a)	103	104	105
Sound Power (1)(7) – Lw with + OP76b	dB(a)	96	96	97
Number of circuits / Compressors	#	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0
Minimum water flow rate (10)	l/s	22,6	22,6	22,6
Length	mm	13360	13360	13360
Width	mm	2238	2238	2238
Height	mm	2553	2553	2553
Shipping weight (8)	kg	10805	10805	10805
Operating weight (8)	kg	12031	12046	12061
Water Connection Size	Ø mm	273	273	273
Running Current (1)(8)(12)	A	899	986	1083
Max Running Current (7)(8)(12)	A	1103	1217	1330
Current for Wiring Sizing (8)	A	1214	1268	1463
Max Inrush Current (8)(9)(12)	A	0	0	0

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(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**285**	**330**	**370**	**405**	**450**	**490**
Cooling Capacity (1)	kW	287,6	333,2	370,2	405,1	450,1	488,4
Power input (1)	kW	81,9	96,8	111,6	110,6	123,5	137,5
Cooling Efficiency – EER (1)	kW/kW	3,512	3,441	3,317	3,663	3,645	3,552
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,866	6,009	5,937	6,290	6,237	6,186
$\eta_{s,c}$ (3)	%	232%	237%	234%	249%	246%	244%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,658	6,655	7,299	7,756	8,345	7,999
IPLV (5)	kW/kW	6,461	6,541	6,397	6,953	7,268	7,157
Minimum capacity turndown (11)	%	23%	20%	18%	30%	28%	25%
Flow rate (1)	l/s	13,7	15,9	17,7	19,3	21,5	23,3
Evaporator Pressure Drop (1)(6)	kPa	14,2	18,8	23,0	24,7	18,2	21,0
Sound Power (1)(7) **– Lw**	dB(a)	97	98	100	95	96	98
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	92	93	94	92	92	92
Number of circuits / Compressors	#	1	1	1	1	1	1
Water volume	Lt	48,0	48,0	48,0	58,1	76,3	76,3
Minimum water flow rate (10)	l/s	8,5	8,5	8,5	10,2	13,4	13,4
Length	mm	4720	5800	5800	6880	6880	6880
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	3775	4256	4256	5050	5136	5136
Operating weight (8)	kg	3863	4349	4354	5163,1	5272,3	5277,3
Water Connection Size	Ø mm	88,9	88,9	88,9	139,7	139,7	139,7
Running Current (1)(8)(12)	A	181	213	238	242	259	280
Max Running Current (7)(8)(12)	A	220	258	285	293	352	404
Current for Wiring Sizing (8)	A	242	284	310	322	388	444
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**530**	**575**	**615**	**675**	**735**	**810**
Cooling Capacity (1)	kW	531,7	573,6	620,2	677,1	732,9	810
Power input (1)	kW	150,8	167,7	180,9	205,7	223,4	238,8
Cooling Efficiency – EER (1)	kW/kW	3,526	3,420	3,428	3,292	3,281	3,392
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	5,992	5,918	5,877	5,783	5,843	6,062
$\eta_{s,c}$ (3)	%	237%	234%	232%	228%	231%	239%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	6,718	7,462	7,427	7,242	7,168	7,362
IPLV (5)	kW/kW	6,417	6,301	6,264	6,119	6,202	6,512
Minimum capacity turndown (11)	%	13%	12%	11%	10%	10%	10%
Flow rate (1)	l/s	25,4	27,4	29,6	32,3	35,0	38,6
Evaporator Pressure Drop (1)(6)	kPa	40,5	46,2	32,1	37,3	39,3	35,2
Sound Power (1)(7) **– Lw**	dB(a)	100	100	101	101	102	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	96	96	97
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	255,0	255,0	255,0	255,0	298,0	481,0
Minimum water flow rate (10)	l/s	8,6	8,6	10,7	10,7	14,3	15,3
Length	mm	7960	7960	9040	9040	9040	10120
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	5829	5829	6311	6311	6427	7385
Operating weight (8)	kg	6159	6164	6651	6661	6825	7976
Water Connection Size	Ø mm	168,3	168,3	168,3	168,3	168,3	219,1
Running Current (1)(8)(12)	A	332	362	391	434	459	485
Max Running Current (7)(8)(12)	A	399	429	468	508	535	573
Current for Wiring Sizing (8)	A	439	472	514	559	585	607
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D PS| Platinum Efficiency, Standard Sound							
Model		**890**	**960**	**C10**	**H10**	**H11**	**C12**
Cooling Capacity (1)	kW	884,2	954	1001	1067	1110	1197
Power input (1)	kW	256,7	288,7	298,9	331,9	343,6	434,6
Cooling Efficiency – EER (1)	kW/kW	3,444	3,304	3,349	3,215	3,231	2,754
Seasonal Energy Efficiency Ratio - SEER (1)(2)	kW/kW	6,274	6,128	6,219	6,081	6,144	6,023
$\eta_{s,c}$ (3)	%	248%	242%	246%	240%	243%	238%
Seasonal Energy Performance Ratio - SEPR (1)(2)	kW/kW	7,892	7,559	7,607	7,188	7,279	7,071
IPLV (5)	kW/kW	6,825	6,588	6,620	6,297	6,523	6,400
Minimum capacity turndown (11)	%	14%	13%	12%	11%	11%	10%
Flow rate (1)	l/s	42,2	45,5	47,7	50,9	53,0	57,1
Evaporator Pressure Drop (1)(6)	kPa	40,3	45,3	48,9	54,2	58,1	59,0
Sound Power (1)(7) **– Lw**	dB(a)	99	100	101	102	103	105
Sound Power (1)(7) **– Lw with + OP76b**	dB(a)	94	94	95	95	95	95
Number of circuits / Compressors	#	2	2	2	2	2	2
Water volume	Lt	481,0	481,0	481,0	481,0	557,0	557,0
Minimum water flow rate (10)	l/s	15,3	15,3	15,3	15,3	18,2	18,2
Length	mm	10120	10120	11200	11200	12280	12280
Width	mm	2238	2238	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553	2553	2553
Shipping weight (8)	kg	7642	7642	8123	8123	8798	8798
Operating weight (8)	kg	8243	8253	8744	8754	9515	9520
Water Connection Size	Ø mm	219,1	219,1	219,1	219,1	219,1	219,1
Running Current (1)(8)(12)	A	512	560	581	630	654	748
Max Running Current (7)(8)(12)	A	616	672	709	761	796	845
Current for Wiring Sizing (8)	A	677	740	780	837	876	929
Max Inrush Current (8)(9)(12)	A	0	0	0	0	0	0

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iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

EWAS TZ-D PS| Platinum Efficiency, Standard Sound					
Model		**H12**	**H13**	**H14**	**H15**
Cooling Capacity [1]	kW	1288	1363	1443	1552
Power input [1]	kW	410,7	433,6	435,6	492,1
Cooling Efficiency – EER [1]	kW/kW	3,136	3,143	3,313	3,154
Seasonal Energy Efficiency Ratio - SEER [1][2]	kW/kW	6,131	6,017	5,876	5,731
$\eta_{s,c}$ [3]	%	242%	238%	232%	226%
Seasonal Energy Performance Ratio - SEPR [1][2]	kW/kW	6,963	6,816	8,121	7,402
IPLV [5]	kW/kW	6,347	6,399	6,261	6,401
Minimum capacity turndown [11]	%	10%	10%	15%	14%
Flow rate [1]	l/s	61,4	65,0	68,8	74,0
Evaporator Pressure Drop [1][6]	kPa	39,4	42,9	46,8	52,5
Sound Power [1][7] **– Lw**	dB(a)	108	106	102	103
Sound Power [1][7] **– Lw with + OP76b**	dB(a)	95	96	96	96
Number of circuits / Compressors	#	2	2	2	2
Water volume	Lt	1011,0	1011,0	1011,0	1011,0
Minimum water flow rate [10]	l/s	22,6	22,6	22,6	22,6
Length	mm	12280	13360	13360	13360
Width	mm	2238	2238	2238	2238
Height	mm	2553	2553	2553	2553
Shipping weight [8]	kg	9655	10136	10805	10805
Operating weight [8]	kg	10846	11337	12021	12036
Water Connection Size	Ø mm	273	273	273	273
Running Current [1][8][12]	A	756	796	799	882
Max Running Current [7][8][12]	A	893	951	1039	1135
Current for Wiring Sizing [8]	A	982	1021	1143	1248
Max Inrush Current [8][9][12]	A	0	0	0	0

i) The above data are referred to the unit without additional optional.
ii) The above data are referred the unit installed in compliancy with installation prescription.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Seasonal Energy Efficiency Ratio as defined in EN14825, part load condition in cooling for Air to Water units, fan coil application, variable outlet, variable flow.
(3) The seasonal space cooling energy efficiency ηs,c is calculated as defined in Regulation (EU) 2016/2281 the seasonal energy efficiency ratio SEER divided by the conversion coefficient CC (2.5), corrected by contributions accounting for temperature control (0.03).
(4) Seasonal Energy Performance Ratio as defined in EN14825, part load condition in cooling for Air to Water units, high temperature application.
(5) Based on AHRI conditions
(6) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(7) Sound power level measured in accordance with ISO9614, referred to unit operating at Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C
(8) This are intended as guideline only and referred for unit without options. Refer to dedicated wiring diagram and unit nameplate for specific values.
(9) Determined as follow: LRA of largest compressor + FLA of remaining compressors + FLA of the fans.
Value intended as guideline. Refer to unit nameplate for specific value.
(10) Minimum flow rate in variable flow application in correspondence of minimum chiller capacity, supply temperature 7°C, fluid: water
(11) Indicative value of minimum capacity expressed as percentage of the total capacity available based on the operating conditions (ambient temperature, fluid in/out temperature and fluid type)
(12) ±10% tolerance on Voltage, Voltage unbalance between phases must be within ± 3%.

Eurovent certified data

6. Electrical data

EWAH TZ-D BS| Blue Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAH235TZBSD1	18,6	2,38	240 mm²	15
EWAH255TZBSD1	18,6	2,38	240 mm²	15
EWAH300TZBSD1	18,6	2,38	240 mm²	15
EWAH350TZBSD1	28,0	2,38	2x185 mm²	20
EWAH400TZBSD1	28,0	2,38	2x185 mm²	20
EWAH420TZBSD1	28,0	2,38	2x185 mm²	20
EWAH455TZBSD1	28,0	2,38	2x185 mm²	20
EWAH505TZBSD1	28,0	2,38	2x185 mm²	20
EWAH545TZBSD1	37,3	2,38	2x185 mm²	20
EWAH400TZBSD2	37,3	3,50	2x185 mm²	20
EWAH425TZBSD2	37,3	3,50	2x185 mm²	20
EWAH485TZBSD2	37,3	3,50	2x240 mm²	20
EWAH545TZBSD2	37,3	3,50	2x240 mm²	20
EWAH590TZBSD2	46,6	3,50	2x240 mm²	20
EWAH635TZBSD2	46,6	3,50	2x400 mm²	25
EWAH745TZBSD2	55,9	3,50	2x400 mm²	25
EWAH785TZBSD2	55,9	3,50	2x400 mm²	25
EWAH845TZBSD2	55,9	3,50	2x400 mm²	25
EWAH900TZBSD2	65,2	3,50	2x400 mm²	25
EWAH985TZBSD2	65,2	3,50	2x400 mm²	25
EWAHC11TZBSD2	74,6	3,50	2x400 mm²	25
EWAHH11TZBSD2	74,6	3,50	2x400 mm²	25
EWAHC13TZBSD2	83,9	3,50	2x500 mm²	25
EWAHH13TZBSD2	83,9	3,50	2x500 mm²	25
EWAHH14TZBSD2	93,2	3,50	3x500 mm²	25
EWAHC15TZBSD2	93,2	3,50	3x500 mm²	25
EWAHH15TZBSD2	102,5	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAH TZ-D SS| Silver Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAH240TZSSD1	16,3	2,38	240 mm²	15
EWAH265TZSSD1	16,3	2,38	240 mm²	15
EWAH295TZSSD1	16,3	2,38	240 mm²	15
EWAH370TZSSD1	21,8	2,38	2x185 mm²	20
EWAH415TZSSD1	21,8	2,38	2x185 mm²	20
EWAH450TZSSD1	21,8	2,38	2x185 mm²	20
EWAH490TZSSD1	21,8	2,38	2x185 mm²	20
EWAH540TZSSD1	27,2	2,38	2x185 mm²	20
EWAH400TZSSD2	27,2	3,50	2x185 mm²	20
EWAH470TZSSD2	27,2	3,50	2x240 mm²	20
EWAH535TZSSD2	27,2	3,50	2x240 mm²	20
EWAH595TZSSD2	32,6	3,50	2x240 mm²	20
EWAH630TZSSD2	32,6	3,50	2x240 mm²	20
EWAH690TZSSD2	32,6	3,50	2x400 mm²	25
EWAH740TZSSD2	32,6	3,50	2x400 mm²	25
EWAH795TZSSD2	38,1	3,50	2x400 mm²	25
EWAH855TZSSD2	38,1	3,50	2x400 mm²	25
EWAH910TZSSD2	43,5	3,50	2x400 mm²	25
EWAH980TZSSD2	49,0	3,50	2x400 mm²	25
EWAHC10TZSSD2	54,4	3,50	2x400 mm²	25
EWAHC11TZSSD2	54,4	3,50	2x400 mm²	25
EWAHC12TZSSD2	54,4	3,50	2x400 mm²	25
EWAHH12TZSSD2	54,4	3,50	2x500 mm²	25
EWAHH13TZSSD2	54,4	3,50	2x500 mm²	25
EWAHC14TZSSD2	59,8	3,50	3x500 mm²	25
EWAHC15TZSSD2	65,3	3,50	3x500 mm²	25
EWAHH15TZSSD2	65,3	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAH TZ-D XS/XR| Gold Efficiency, Standard/Reduced Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAH220TZXS/XRD1	20,8	2,38	120 mm²	8
EWAH230TZXS/XRD1	20,8	2,38	120 mm²	8
EWAH275TZXS/XRD1	31,2	2,38	240 mm²	15
EWAH300TZXS/XRD1	31,2	2,38	240 mm²	15
EWAH350TZXS/XRD1	41,6	2,38	2x185 mm²	20
EWAH400TZXS/XRD1	41,6	2,38	2x185 mm²	20
EWAH470TZXS/XRD1	52,0	2,38	2x185 mm²	20
EWAH515TZXS/XRD1	52,0	2,38	2x185 mm²	20
EWAH540TZXS/XRD1	52,0	2,38	2x240 mm²	20
EWAH620TZXS/XRD1	52,0	2,38	2x240 mm²	20
EWAH465TZXS/XRD2	62,4	3,50	2x185 mm²	20
EWAH545TZXS/XRD2	62,4	3,50	2x185 mm²	20
EWAH600TZXS/XRD2	62,4	3,50	2x240 mm²	20
EWAH645TZXS/XRD2	62,4	3,50	2x400 mm²	25
EWAH700TZXS/XRD2	62,4	3,50	2x400 mm²	25
EWAH750TZXS/XRD2	72,8	3,50	2x400 mm²	25
EWAH790TZXS/XRD2	83,2	3,50	2x400 mm²	25
EWAH840TZXS/XRD2	83,2	3,50	2x400 mm²	25
EWAH900TZXS/XRD2	83,2	3,50	2x400 mm²	25
EWAH975TZXS/XRD2	93,6	3,50	2x400 mm²	25
EWAHH10TZXS/XRD2	104,0	3,50	2x400 mm²	25
EWAHH11TZXS/XRD2	104,0	3,50	2x500 mm²	25
EWAHH12TZXS/XRD2	114,4	3,50	2x500 mm²	25
EWAHH13TZXS/XRD2	124,8	3,50	2x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAH TZ-D PS/PR| Platinum Efficiency, Standard/Reduced Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAH225TZPS/PRD1	31,2	2,38	240 mm²	15
EWAH265TZPS/PRD1	41,6	2,38	240 mm²	15
EWAH295TZPS/PRD1	41,6	2,38	240 mm²	15
EWAH340TZPS/PRD1	52,0	2,38	2x185 mm²	20
EWAH395TZPS/PRD1	52,0	2,38	2x185 mm²	20
EWAH420TZPS/PRD1	62,4	2,38	2x185 mm²	20
EWAH490TZPS/PRD1	62,4	2,38	2x185 mm²	20
EWAH545TZPS/PRD1	62,4	2,38	2x240 mm²	20
EWAH500TZPS/PRD2	62,4	3,50	2x185 mm²	20
EWAH540TZPS/PRD2	72,8	3,50	2x185 mm²	20
EWAH615TZPS/PRD2	72,8	3,50	2x400 mm²	25
EWAH645TZPS/PRD2	72,8	3,50	2x400 mm²	25
EWAH700TZPS/PRD2	72,8	3,50	2x400 mm²	25
EWAH770TZPS/PRD2	83,2	3,50	2x400 mm²	25
EWAH845TZPS/PRD2	93,6	3,50	2x400 mm²	25
EWAH900TZPS/PRD2	93,6	3,50	2x400 mm²	25
EWAH960TZPS/PRD2	104,0	3,50	2x400 mm²	25
EWAHC10TZPS/PRD2	104,0	3,50	2x400 mm²	25
EWAHH10TZPS/PRD2	114,4	3,50	2x400 mm²	25
EWAHH11TZPS/PRD2	114,4	3,50	2x500 mm²	25
EWAHC12TZPS/PRD2	124,8	3,50	2x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAD TZ-D BS| Blue Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAD275TZBSD1	18,6	2,38	240 mm²	15
EWAD320TZBSD1	27,96	2,38	240 mm²	15
EWAD345TZBSD1	27,96	2,38	240 mm²	15
EWAD400TZBSD1	27,96	2,38	2x185 mm²	20
EWAD470TZBSD1	27,96	2,38	2x185 mm²	20
EWAD525TZBSD1	37,3	2,38	2x185 mm²	20
EWAD580TZBSD1	37,3	2,38	2x185 mm²	20
EWAD625TZBSD1	37,3	2,38	2x185 mm²	20
EWAD510TZBSD2	37,3	3,50	2x240 mm²	20
EWAD545TZBSD2	37,3	3,50	2x240 mm²	20
EWAD570TZBSD2	37,3	3,50	2x240 mm²	20
EWAD630TZBSD2	46,6	3,50	2x240 mm²	20
EWAD670TZBSD2	46,6	3,50	2x240 mm²	20
EWAD755TZBSD2	55,9	3,50	2x400 mm²	25
EWAD830TZBSD2	55,9	3,50	2x400 mm²	25
EWAD915TZBSD2	55,9	3,50	2x400 mm²	25
EWADC10TZBSD2	55,9	3,50	2x400 mm²	25
EWADH10TZBSD2	65,2	3,50	2x400 mm²	25
EWADH11TZBSD2	74,6	3,50	2x400 mm²	25
EWADC12TZBSD2	83,9	3,50	2x400 mm²	25
EWADC13TZBSD2	93,2	3,50	2x400 mm²	25
EWADC14TZBSD2	93,2	3,50	2x500 mm²	25
EWADC15TZBSD2	102,5	3,50	2x500 mm²	25
EWADH16TZBSD2	102,5	3,50	2x500 mm²	25
EWADH17TZBSD2	102,5	3,50	3x500 mm²	25
EWADH18TZBSD2	111,8	3,50	3x500 mm²	25
EWADH19TZBSD2	111,8	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAD TZ-D SS| Silver Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAD285TZSSD1	16,3	2,38	240 mm²	15
EWAD325TZSSD1	21,8	2,38	240 mm²	15
EWAD380TZSSD1	21,8	2,38	240 mm²	15
EWAD430TZSSD1	21,8	2,38	2x185 mm²	20
EWAD495TZSSD1	21,8	2,38	2x185 mm²	20
EWAD535TZSSD1	27,2	2,38	2x185 mm²	20
EWAD595TZSSD1	27,2	2,38	2x185 mm²	20
EWAD650TZSSD1	27,2	2,38	2x185 mm²	20
EWAD520TZSSD2	27,2	3,50	2x240 mm²	20
EWAD555TZSSD2	27,2	3,50	2x240 mm²	20
EWAD585TZSSD2	27,2	3,50	2x240 mm²	20
EWAD645TZSSD2	32,6	3,50	2x240 mm²	20
EWAD705TZSSD2	32,6	3,50	2x240 mm²	20
EWAD760TZSSD2	38,1	3,50	2x400 mm²	25
EWAD835TZSSD2	38,1	3,50	2x400 mm²	25
EWAD960TZSSD2	38,1	3,50	2x400 mm²	25
EWADC10TZSSD2	38,1	3,50	2x400 mm²	25
EWADH10TZSSD2	38,1	3,50	2x400 mm²	25
EWADH11TZSSD2	43,5	3,50	2x400 mm²	25
EWADH12TZSSD2	54,4	3,50	2x400 mm²	25
EWADH13TZSSD2	59,8	3,50	2x400 mm²	25
EWADH14TZSSD2	59,8	3,50	2x500 mm²	25
EWADH15TZSSD2	59,8	3,50	2x500 mm²	25
EWADH16TZSSD2	59,8	3,50	2x500 mm²	25
EWADH17TZSSD2	65,3	3,50	3x500 mm²	25
EWADH18TZSSD2	65,3	3,50	3x500 mm²	25
EWADH19TZSSD2	65,3	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAD TZ-D XS/XR| Gold Efficiency, Standard Reduced Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAD295TZXS/XRD1	31,2	2,38	240 mm²	15
EWAD345TZXS/XRD1	41,6	2,38	240 mm²	15
EWAD380TZXS/XRD1	41,6	2,38	240 mm²	15
EWAD440TZXS/XRD1	52,0	2,38	2x185 mm²	20
EWAD515TZXS/XRD1	52,0	2,38	2x185 mm²	20
EWAD565TZXS/XRD1	62,4	2,38	2x185 mm²	20
EWAD635TZXS/XRD1	62,4	2,38	2x185 mm²	20
EWAD705TZXS/XRD1	62,4	2,38	2x240 mm²	20
EWAD760TZXS/XRD1	62,4	2,38	2x240 mm²	20
EWAD525TZXS/XRD2	62,4	3,50	2x240 mm²	20
EWAD565TZXS/XRD2	62,4	3,50	2x240 mm²	20
EWAD610TZXS/XRD2	72,8	3,50	2x240 mm²	20
EWAD670TZXS/XRD2	72,8	3,50	2x240 mm²	20
EWAD725TZXS/XRD2	72,8	3,50	2x240 mm²	20
EWAD805TZXS/XRD2	83,2	3,50	2x240 mm²	20
EWAD880TZXS/XRD2	83,2	3,50	2x400 mm²	25
EWAD950TZXS/XRD2	83,2	3,50	2x400 mm²	25
EWADC10TZXS/XRD2	93,6	3,50	2x400 mm²	25
EWADH10TZXS/XRD2	93,6	3,50	2x400 mm²	25
EWADH11TZXS/XRD2	104,0	3,50	2x400 mm²	25
EWADC12TZXS/XRD2	104,0	3,50	2x400 mm²	25
EWADH12TZXS/XRD2	104,0	3,50	2x400 mm²	25
EWADH13TZXS/XRD2	114,4	3,50	2x400 mm²	25
EWADH14TZXS/XRD2	124,8	3,50	2x500 mm²	25
EWADH15TZXS/XRD2	124,8	3,50	2x500 mm²	25
EWADH16TZXS/XRD2	124,8	3,50	2x500 mm²	25
EWADH17TZXS/XRD2	124,8	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAD TZ-D PS/PR| Platinum Efficiency, Reduced Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAD285TZPS/PRD1	41,6	2,38	240 mm²	15
EWAD330TZPS/PRD1	52,0	2,38	240 mm²	15
EWAD370TZPS/PRD1	52,0	2,38	240 mm²	15
EWAD405TZPS/PRD1	62,4	2,38	2x185 mm²	20
EWAD450TZPS/PRD1	62,4	2,38	2x185 mm²	20
EWAD490TZPS/PRD1	62,4	2,38	2x185 mm²	20
EWAD530TZPS/PRD2	72,8	3,50	2x240 mm²	20
EWAD575TZPS/PRD2	72,8	3,50	2x240 mm²	20
EWAD615TZPS/PRD2	83,2	3,50	2x240 mm²	20
EWAD675TZPS/PRD2	83,2	3,50	2x240 mm²	20
EWAD735TZPS/PRD2	83,2	3,50	2x240 mm²	20
EWAD810TZPS/PRD2	93,6	3,50	2x240 mm²	20
EWAD890TZPS/PRD2	93,6	3,50	2x400 mm²	25
EWAD960TZPS/PRD2	93,6	3,50	2x400 mm²	25
EWADC10TZPS/PRD2	104,0	3,50	2x400 mm²	25
EWADH10TZPS/PRD2	104,0	3,50	2x400 mm²	25
EWADH11TZPS/PRD2	114,4	3,50	2x400 mm²	25
EWADC12TZPS/PRD2	114,4	3,50	2x400 mm²	25
EWADH12TZPS/PRD2	114,4	3,50	2x400 mm²	25
EWADH13TZPS/PRD2	124,8	3,50	2x400 mm²	25
EWADH14TZPS/PRD2	124,8	3,50	2x500 mm²	25
EWADH15TZPS/PRD2	124,8	3,50	2x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAS TZ-D BS| Blue Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAS275TZBSD1	18,6	2,38	240 mm²	15
EWAS320TZBSD1	28,0	2,38	240 mm²	15
EWAS345TZBSD1	28,0	2,38	240 mm²	15
EWAS400TZBSD1	28,0	2,38	2x185 mm²	20
EWAS470TZBSD1	28,0	2,38	2x185 mm²	20
EWAS525TZBSD1	37,3	2,38	2x185 mm²	20
EWAS580TZBSD1	37,3	2,38	2x185 mm²	20
EWAS625TZBSD1	37,3	2,38	2x185 mm²	20
EWAS755TZBSD2	55,9	3,50	2x400 mm²	25
EWAS830TZBSD2	55,9	3,50	2x400 mm²	25
EWAS915TZBSD2	55,9	3,50	2x400 mm²	25
EWASC10TZBSD2	55,9	3,50	2x400 mm²	25
EWASH10TZBSD2	65,2	3,50	2x400 mm²	25
EWASH11TZBSD2	74,6	3,50	2x400 mm²	25
EWASC12TZBSD2	83,9	3,50	2x400 mm²	25
EWASC13TZBSD2	93,2	3,50	2x400 mm²	25
EWASC14TZBSD2	93,2	3,50	2x500 mm²	25
EWASC15TZBSD2	102,5	3,50	2x500 mm²	25
EWASH16TZBSD2	102,5	3,50	2x500 mm²	25
EWASH17TZBSD2	102,5	3,50	3x500 mm²	25
EWASH18TZBSD2	111,8	3,50	3x500 mm²	25
EWASH19TZBSD2	111,8	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAS TZ-D SS| Silver Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAS285TZSSD1	16,3	2,38	240 mm²	15
EWAS325TZSSD1	21,8	2,38	240 mm²	15
EWAS380TZSSD1	21,8	2,38	240 mm²	15
EWAS430TZSSD1	21,8	2,38	2x185 mm²	20
EWAS495TZSSD1	21,8	2,38	2x185 mm²	20
EWAS535TZSSD1	27,2	2,38	2x185 mm²	20
EWAS595TZSSD1	27,2	2,38	2x185 mm²	20
EWAS650TZSSD1	27,2	2,38	2x185 mm²	20
EWAS520TZSSD2	27,2	3,50	2x240 mm²	20
EWAS555TZSSD2	27,2	3,50	2x240 mm²	20
EWAS585TZSSD2	27,2	3,50	2x240 mm²	20
EWAS645TZSSD2	32,6	3,50	2x240 mm²	20
EWAS705TZSSD2	32,6	3,50	2x240 mm²	20
EWAS760TZSSD2	38,1	3,50	2x400 mm²	25
EWAS835TZSSD2	38,1	3,50	2x400 mm²	25
EWAS960TZSSD2	38,1	3,50	2x400 mm²	25
EWASC10TZSSD2	38,1	3,50	2x400 mm²	25
EWASH10TZSSD2	38,1	3,50	2x400 mm²	25
EWASH11TZSSD2	43,5	3,50	2x400 mm²	25
EWASH12TZSSD2	54,4	3,50	2x400 mm²	25
EWASH13TZSSD2	59,8	3,50	2x400 mm²	25
EWASH14TZSSD2	59,8	3,50	2x500 mm²	25
EWASH15TZSSD2	59,8	3,50	2x500 mm²	25
EWASH16TZSSD2	59,8	3,50	2x500 mm²	25
EWASH17TZSSD2	65,3	3,50	3x500 mm²	25
EWASH18TZSSD2	65,3	3,50	3x500 mm²	25
EWASH19TZSSD2	65,3	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAS TZ-D XS| Gold Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAS295TZXSD1	31,2	2,38	240 mm²	15
EWAS345TZXSD1	41,6	2,38	240 mm²	15
EWAS380TZXSD1	41,6	2,38	240 mm²	15
EWAS440TZXSD1	52,0	2,38	2x185 mm²	20
EWAS515TZXSD1	52,0	2,38	2x185 mm²	20
EWAS565TZXSD1	62,4	2,38	2x185 mm²	20
EWAS635TZXSD1	62,4	2,38	2x185 mm²	20
EWAS705TZXSD1	62,4	2,38	2x240 mm²	20
EWAS760TZXSD1	62,4	2,38	2x240 mm²	20
EWAS525TZXSD2	62,4	3,50	2x240 mm²	20
EWAS565TZXSD2	62,4	3,50	2x240 mm²	20
EWAS610TZXSD2	72,8	3,50	2x240 mm²	20
EWAS670TZXSD2	72,8	3,50	2x240 mm²	20
EWAS725TZXSD2	72,8	3,50	2x240 mm²	20
EWAS805TZXSD2	83,2	3,50	2x240 mm²	20
EWAS880TZXSD2	83,2	3,50	2x400 mm²	25
EWAS950TZXSD2	83,2	3,50	2x400 mm²	25
EWASC10TZXSD2	93,6	3,50	2x400 mm²	25
EWASH10TZXSD2	93,6	3,50	2x400 mm²	25
EWASH11TZXSD2	104,0	3,50	2x400 mm²	25
EWASC12TZXSD2	104,0	3,50	2x400 mm²	25
EWASH12TZXSD2	104,0	3,50	2x400 mm²	25
EWASH13TZXSD2	114,4	3,50	2x400 mm²	25
EWASH14TZXSD2	124,8	3,50	2x500 mm²	25
EWASH15TZXSD2	124,8	3,50	2x500 mm²	25
EWASH16TZXSD2	124,8	3,50	2x500 mm²	25
EWASH17TZXSD2	124,8	3,50	3x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

EWAS TZ-D PS| Platinum Efficiency, Standard Sound				
Models	Fans FLA	Auxiliary circuit	Entry cross section cable	SCC Icw 1 Sec.
	A	A	q.ty x mm²	kA eff
EWAS285TZPSD1	41,6	2,38	240 mm²	15
EWAS330TZPSD1	52,0	2,38	240 mm²	15
EWAS370TZPSD1	52,0	2,38	240 mm²	15
EWAS405TZPSD1	62,4	2,38	2x185 mm²	20
EWAS450TZPSD1	62,4	2,38	2x185 mm²	20
EWAS490TZPSD1	62,4	2,38	2x185 mm²	20
EWAS530TZPSD2	72,8	3,50	2x240 mm²	20
EWAS575TZPSD2	72,8	3,50	2x240 mm²	20
EWAS615TZPSD2	83,2	3,50	2x240 mm²	20
EWAS675TZPSD2	83,2	3,50	2x240 mm²	20
EWAS735TZPSD2	83,2	3,50	2x240 mm²	20
EWAS810TZPSD2	93,6	3,50	2x240 mm²	20
EWAS890TZPSD2	93,6	3,50	2x400 mm²	25
EWAS960TZPSD2	93,6	3,50	2x400 mm²	25
EWASC10TZPSD2	104,0	3,50	2x400 mm²	25
EWASH10TZPSD2	104,0	3,50	2x400 mm²	25
EWASH11TZPSD2	114,4	3,50	2x400 mm²	25
EWASC12TZPSD2	114,4	3,50	2x400 mm²	25
EWASH12TZPSD2	114,4	3,50	2x400 mm²	25
EWASH13TZPSD2	124,8	3,50	2x400 mm²	25
EWASH14TZPSD2	124,8	3,50	2x500 mm²	25
EWASH15TZPSD2	124,8	3,50	2x500 mm²	25

The above data are referred to the unit without additional optional.
All the data are intended as guideline and are subject to change without notice. For updated information on project base refer to dedicated wiring diagram

7. Operating Limits

7.1 EWAH~TZ D – R1234ze

At Evaporator – Brazed Plate Heat Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving fluid temperature range	Standard unit	Water	4	18
	Hight LWT option	Water	4	30
	Brine option	Glycol Mix	-12	18
Entering fluid temperature range	Standard unit	Water	7	28
	Hight LWT option	Water	7	40
	Brine option	Glycol Mix	-9	28
Entering fluid temperature range at start up	Standard unit	Water	7	40
	Hight LWT option	Water	7	40
	Brine option	Glycol Mix	-9	40
Fluid Temperature difference across evaporator Entering - Leaving	Standard unit	Water	3	10
	Hight LWT option	Water	3	10
	Brine option	Glycol Mix	3	10

For operation below 4°C leaving from evaporator the use of glycol mixture is mandatory.
The values above are intended as guidelines, refer to unit selection on project base for actual values.

Transportation and Storage temperature	Min [°C]	Max [°C]
	-20	57

At Condenser – MCH/Tube and fin Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Operating Ambient Temperature	Standard unit with AC fans	Air	5	46
	Standard unit with EC fans	Air	-20	46
	Unit with High Ambient kit (OPT142)	Air	-20	55

The values above are intended as guidelines, refer to unit selection on project base for actual values.

At Partial Heat Recovery – BPHE	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving temperature range	With PHR	Water	32	60
Entering temperature range			28	56
Entering temperature range at start up			20	56

The values above are intended as guidelines, refer to unit selection on project base for actual values.

At Total Heat Recovery – BPHE	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving temperature range	With THR	Water	31	55
Entering temperature range			28	51
Entering temperature range at start up			20	51

The values above are intended as guidelines, refer to unit selection on project base for actual values.

Condenser fans External Static pressure	Unit configuration	Pa
	Standard unit	0
	With option 160C	100

If additional pressure resistance is added on airflow e.g., louvers around the unit or ducts on condenser discharge, the airflow will be affected causing a deration of unit performance. The External Static Pressure where available is referred to the nominal airflow of the standard unit. Refer to chiller selection for airflow information.

Max Operating Pressure on water side	Heat Exchanger	bar
	STD unit – BPHE	10
	STD unit – S&T	10
	Unit with Hydronic kit	10
	Partial Heat recovery	10
	Total Heat recovery	10

All above values are intended as guidelines which may change according to specific unit configurations.

7.2 EWAD~TZ D – R134a

At Evaporator – Brazed Plate Heat Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving fluid temperature range	Standard unit	Water	4	18
	Hight LWT option	Water	4	25
	Brine option	Glycol Mix	-12	18
Entering fluid temperature range	Standard unit	Water	7	28
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	28
Entering fluid temperature range at start up	Standard unit	Water	7	35
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	35
Fluid Temperature difference across evaporator Entering - Leaving	Standard unit	Water	3	10
	Hight LWT option	Water	3	10
	Brine option	Glycol Mix	3	10

For operation below 4°C leaving from evaporator the use of glycol mixture is mandatory.
The values above are intended as guidelines, refer to unit selection on project base for actual values.

Transportation and Storage temperature	Min [°C]	Max [°C]
	-20	57

At Condenser – MCH/Tube and fin Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Operating Ambient Temperature	Standard unit with AC fans	Air	5	46
	Standard unit with EC fans	Air	-20	46
	Unit with High Ambient kit (OPT142)	Air	-20	52

The values above are intended as guidelines, refer to unit selection on project base for actual values.

At Partial Heat Recovery – BPHE	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving temperature range	With PHR	Water	32	60
Entering temperature range			28	56
Entering temperature range at start up			20	56

The values above are intended as guidelines, refer to unit selection on project base for actual values.

At Total Heat Recovery – BPHE	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving temperature range	With THR	Water	31	55
Entering temperature range			28	51
Entering temperature range at start up			20	51

The values above are intended as guidelines, refer to unit selection on project base for actual values.

Condenser fans External Static pressure	Unit configuration	Pa
	Standard unit	0
	With option 160C	100

If additional pressure resistance is added on airflow e.g., louvers around the unit or ducts on condenser discharge, the airflow will be affected causing a deration of unit performance. The External Static Pressure where available is referred to the nominal airflow of the standard unit. Refer to chiller selection for airflow information.

Max Operating Pressure on water side	Heat Exchanger	bar
	STD unit – BPHE	10
	STD unit – S&T	10
	Unit with Hydronic kit	10
	Partial Heat recovery	10
	Total Heat recovery	10

All above values are intended as guidelines which may change according to specific unit configurations.

7.3 EWAS~TZ D – R513A

At Evaporator – Brazed Plate Heat Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving fluid temperature range	Standard unit	Water	4	18
	Hight LWT option	Water	4	25
	Brine option	Glycol Mix	-12	18
Entering fluid temperature range	Standard unit	Water	7	28
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	28
Entering fluid temperature range at start up	Standard unit	Water	7	35
	Hight LWT option	Water	7	35
	Brine option	Glycol Mix	-9	35
Fluid Temperature difference across evaporator Entering - Leaving	Standard unit	Water	3	10
	Hight LWT option	Water	3	10
	Brine option	Glycol Mix	3	10

For operation below 4°C leaving from evaporator the use of glycol mixture is mandatory.
The values above are intended as guidelines, refer to unit selection on project base for actual values.

Transportation and Storage temperature	Min [°C]	Max [°C]
	-20	57

At Condenser – MCH/Tube and fin Exchanger	Unit configuration	Fluid	Min [°C]	Max [°C]
Operating Ambient Temperature	Standard unit with AC fans	Air	5	42
	Standard unit with EC fans	Air	-20	42
	Unit with High Ambient kit (OPT142)	Air	-20	46

The values above are intended as guidelines, refer to unit selection on project base for actual values.

At Partial Heat Recovery – BPHE	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving temperature range	With PHR	Water	32	60
Entering temperature range			28	56
Entering temperature range at start up			20	56

The values above are intended as guidelines, refer to unit selection on project base for actual values.

At Total Heat Recovery – BPHE	Unit configuration	Fluid	Min [°C]	Max [°C]
Leaving temperature range	With THR	Water	31	55
Entering temperature range			28	51
Entering temperature range at start up			20	51

The values above are intended as guidelines, refer to unit selection on project base for actual values.

Condenser fans External Static pressure	Unit configuration	Pa
	Standard unit	0
	With option 160C	100

If additional pressure resistance is added on airflow e.g., louvers around the unit or ducts on condenser discharge, the airflow will be affected causing a deration of unit performance. The External Static Pressure where available is referred to the nominal airflow of the standard unit. Refer to chiller selection for airflow information.

Max Operating Pressure on water side	Heat Exchanger	bar
	STD unit – BPHE	10
	STD unit – S&T	10
	Unit with Hydronic kit	10
	Partial Heat recovery	10
	Total Heat recovery	10

All above values are intended as guidelines which may change according to specific unit configurations.

NOTES

- All data are referred to installation of the unit at sea level. For information on operation of the unit at different altitudes refer to Chiller Selection Software.
- For installation where ambient can reach temperature below +4°C, freeze protection is mandatory.
- Installation of filter at chiller inlet is mandatory.
- Performance of the unit are available with Water, Ethylene glycol and Propylene glycol. In case different substance is required, contact factory to evaluate compatibility and performances.
- All data and information on unit operation are referred to the unit installed in compliance with Installation requirements (refer to Installation and Operation manual).
- Installation conditions may have impact on the above operating conditions, refer to Daikin representative for confirmation.
- Unit options and/or special execution may affect operating limit. Contact factory for specific information.
- All data and information are subject to change without notice. Always refer to latest information available from factory on project base.

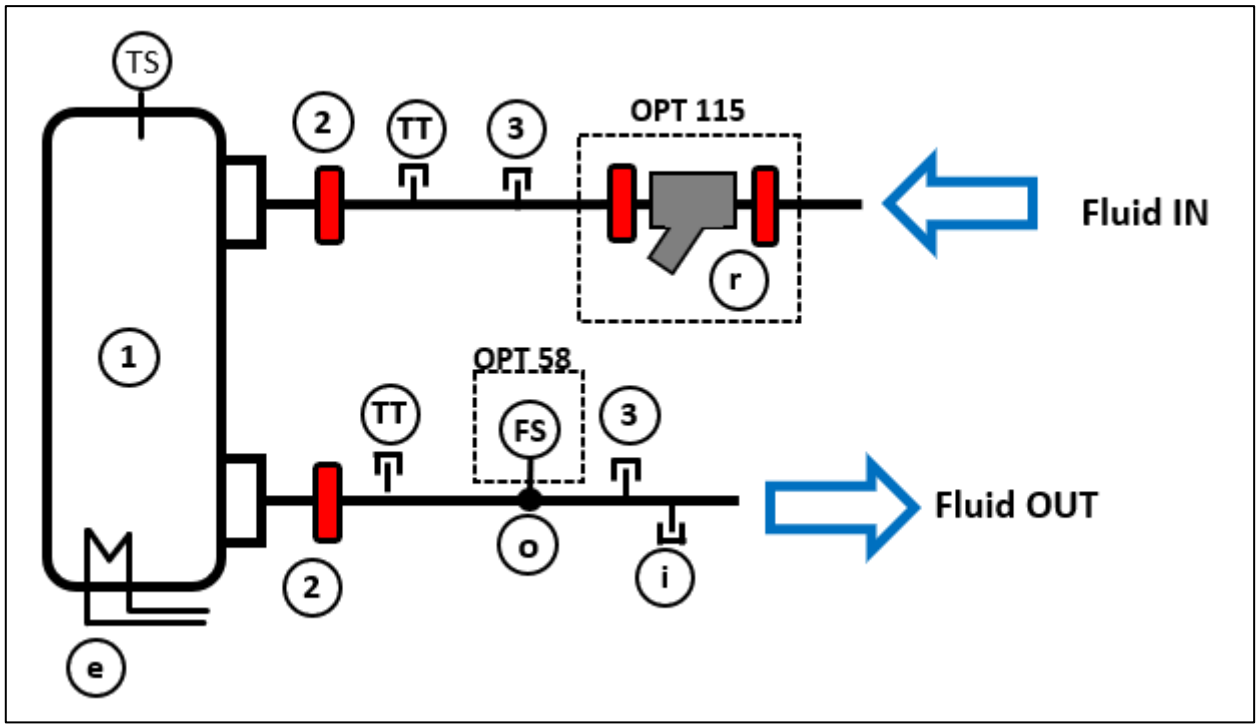
8. Water Quality

Water quality requirements		
	BPHE	S&T
Ph (25 °C)	7.5 – 9.0	6.8 – 8.4
Electrical conductivity [µS/cm] (25°C)	< 500	< 800
Chloride ion [mg Cl^- / l]	< 300	< 150
Sulphate ion [mg SO_4^{2-} / l]	< 100	< 100
Alkalinity [mg $CaCO_3$ / l]	< 200	< 100
Total Hardness [mg $CaCO_3$ / l]	75 ÷ 150	< 200
Iron [mg Fe / l]	< 1	< 0.2
Ammonium ion [mg NH^{4+} / l]	< 2	< 0.5
Silica [mg SiO_2 / l]	< 50	-
Chlorine molecular (mg Cl_2/l)	< 5	< 0.5

The values above are intended as guidelines and not exhaustive for a complete analysis on compatibility with unit component.
All data and information are subject to change without notice. Always refer to latest information available from factory on project base.

9. Hydronics

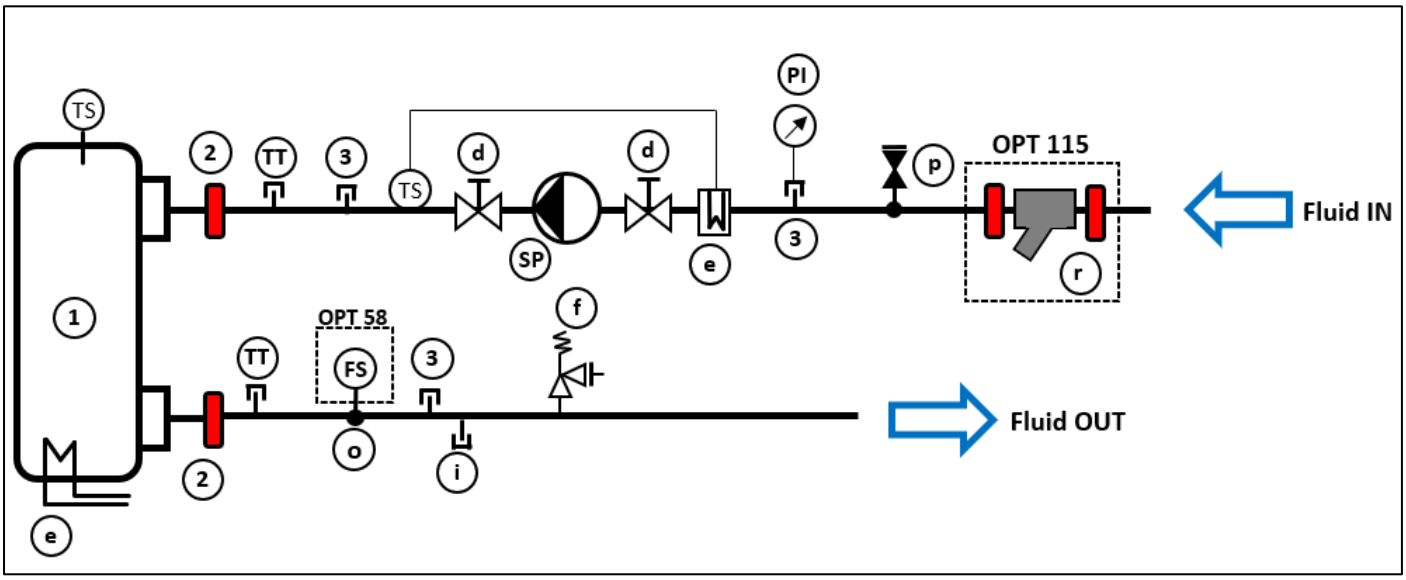
9.1 Hydraulic scheme without pump on board



Legend	
1	Evaporator
2	Victaulic connection
3	Plugged Fitting ¼" NPT
i	Drain ¼" NPT
o	Flow switch fitting ½"G or 1" G
r	Filter (available as option – OPT115)
e	electric heater
TT	Temperature sensor
TS	Temperature switch
FS	Flow switch

NOTE:
installation of filter and flow switch is mandatory.
Circuit must be protected from freezing.

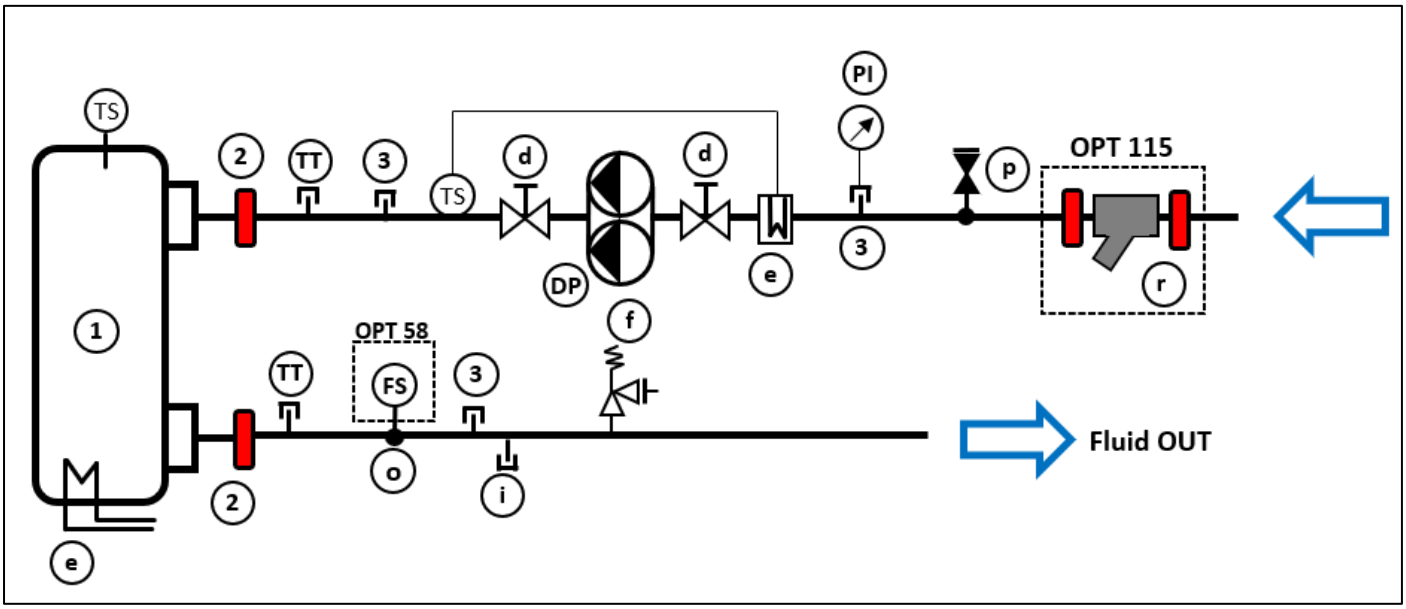
9.2 Hydraulic scheme single pump on board (OPT 78/79)



Legend	
1	Evaporator
2	Victaulic connection
3	Plugged Fitting ¼" NPT
SP	Single pump (see paragraph 10.8)
i	Drain ¼" NPT
o	Flow switch fitting ½"G or 1" G
r	Filter (available as option – OPT115)
d	Isolation valve
e	electric heater
f	Relief valve 10 bar ½"MF
p	Filling valve fitting ½" G
TT	Temperature sensor
TS	Temperature switch
FS	Flow switch
PI	Pressure gauge

NOTE:
installation of filter and flow switch is mandatory.
Circuit must be protected from freezing.

9.3 Hydraulic scheme dual pump on board (OPT 80/81)



Legend	
1	Evaporator
2	Victaulic connection
3	Plugged Fitting ¼" NPT
DP	Dual pump (see paragraph 10.8)
i	Drain ¼" NPT
o	Flow switch fitting ½"G or 1" G
r	Filter (available as option – OPT115)
d	Isolation valve
e	electric heater
f	Relief valve 10 bar ½"MF
p	Filling valve fitting ½" G
TT	Temperature sensor
TS	Temperature switch
FS	Flow switch
PI	Pressure gauge

NOTE:
installation of filter and flow switch is mandatory.
Circuit must be protected from freezing.

9.4 Hydronic Kit technical data

9.4.1 EWAH TZ-D – Single Pump Low Lift

EWAH TZ-D BS | Blue Efficiency | Single Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH235TZBSD1	3,0	6,3	11,2	12,0	143,6	129,6
EWAH255TZBSD1	3,0	6,3	12,2	13,9	137,3	121,8
EWAH300TZBSD1	4,0	7,8	14,4	15,5	187,6	152,5
EWAH350TZBSD1	5,5	10,5	17,2	35,1	178,9	136,5
EWAH400TZBSD1	5,5	10,5	19,0	42,5	174,4	128,1
EWAH420TZBSD1	5,5	10,5	19,9	46,3	166,1	113,0
EWAH455TZBSD1	5,5	10,5	21,4	53,1	151,2	115,0
EWAH505TZBSD1	5,5	10,5	23,9	36,2	139,1	97,7
EWAH545TZBSD1	5,5	10,5	25,6	41,4	178,9	136,4
EWAH400TZBSD2	5,5	10,5	19,0	42,5	172,4	140,1
EWAH425TZBSD2	5,5	10,5	20,3	32,3	155,0	120,1
EWAH485TZBSD2	5,5	10,5	23,3	34,9	139,1	97,6
EWAH545TZBSD2	5,5	10,5	25,6	41,5	189,2	143,2
EWAH590TZBSD2	7,5	14,1	27,5	46,0	171,3	126,9
EWAH635TZBSD2	7,5	14,1	30,2	44,3	164,2	115,4
EWAH745TZBSD2	9,2	17,4	35,4	48,8	176,2	122,3
EWAH785TZBSD2	11,0	20,2	37,5	53,9	151,4	96,4
EWAH845TZBSD2	11,0	20,2	40,2	55,0	166,7	104,6
EWAH900TZBSD2	11,0	20,2	42,9	62,1	220,8	161,7
EWAH985TZBSD2	15,0	26,6	46,9	59,0	195,1	150,3
EWAHC11TZBSD2	15,0	26,6	52,7	44,8	177,9	128,5
EWAHH11TZBSD2	15,0	26,6	56,1	49,4	126,0	85,8
EWAHC13TZBSD2	11,0	20,0	62,7	40,2	170,0	126,4
EWAHH13TZBSD2	15,0	26,5	66,1	43,6	154,8	106,4
EWAHH14TZBSD2	15,0	26,5	70,3	48,4	187,6	135,8
EWAHC15TZBSD2	18,5	32,5	73,2	51,8	178,3	123,7
EWAHH15TZBSD2	18,5	32,5	75,6	54,6	143,6	129,6

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D SS | Silver Efficiency | Single Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH240TZSSD1	3,0	6,3	11,6	12,6	154,7	142,1
EWAH265TZSSD1	3,0	6,3	12,6	14,9	135,2	120,3
EWAH295TZSSD1	4,0	7,8	14,1	15,0	139,8	124,8
EWAH370TZSSD1	5,5	10,5	17,5	36,4	186,1	149,8
EWAH415TZSSD1	5,5	10,5	19,5	44,6	176,5	131,9
EWAH450TZSSD1	5,5	10,5	21,3	29,4	166,6	137,2
EWAH490TZSSD1	5,5	10,5	23,2	34,3	155,5	121,2
EWAH540TZSSD1	5,5	10,5	25,5	40,9	140,4	99,5
EWAH400TZSSD2	5,5	10,5	19,2	29,5	178,0	148,5
EWAH470TZSSD2	5,5	10,5	22,4	38,4	160,5	122,1
EWAH535TZSSD2	5,5	10,5	24,3	37,5	148,5	111,0
EWAH595TZSSD2	7,5	14,1	28,3	39,2	184,3	145,1
EWAH630TZSSD2	7,5	14,1	29,9	43,5	173,4	130,0
EWAH690TZSSD2	9,2	17,4	33,2	43,4	180,6	137,1
EWAH740TZSSD2	9,2	17,4	35,4	48,7	164,7	116,1
EWAH795TZSSD2	11,0	20,2	37,9	55,0	172,3	117,3
EWAH855TZSSD2	11,0	20,2	40,8	56,8	174,9	118,1
EWAH910TZSSD2	11,0	20,2	43,4	63,4	164,8	101,4
EWAH980TZSSD2	15,0	26,6	46,9	72,2	220,9	148,7
EWAHC10TZSSD2	15,0	26,6	49,8	65,3	208,5	143,2
EWAHC11TZSSD2	15,0	26,6	53,1	45,3	193,2	147,9
EWAHC12TZSSD2	15,0	26,6	57,7	51,4	169,6	118,2
EWAHH12TZSSD2	15,0	26,5	63,5	41,0	178,8	137,8
EWAHH13TZSSD2	15,0	26,5	67,0	44,7	166,7	122,0
EWAHC14TZSSD2	15,0	26,5	71,1	49,4	151,6	102,2
EWAHC15TZSSD2	18,5	32,5	73,5	52,2	186,4	134,2
EWAHH15TZSSD2	18,5	32,5	76,6	55,7	174,6	118,9

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XS|Gold Efficiency, standard sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXSD1	2,2	4,6	10,5	10,5	112,2	101,7
EWAH230TZXSD1	2,2	4,6	11,1	11,7	100,2	88,4
EWAH275TZXSD1	4,0	7,8	13,1	13,0	149,5	136,5
EWAH300TZXSD1	4,0	7,8	14,3	15,3	138,4	123,1
EWAH350TZXSD1	5,5	10,5	16,6	33,2	189,9	156,8
EWAH400TZXSD1	5,5	10,5	19,0	42,3	179,2	136,9
EWAH470TZXSD1	5,5	10,5	22,2	31,8	161,3	129,5
EWAH515TZXSD1	5,5	10,5	24,1	36,8	149,9	113,1
EWAH540TZXSD1	5,5	10,5	25,5	24,6	140,1	115,5
EWAH620TZXSD1	7,5	14,1	29,4	32,1	176,6	144,4
EWAH465TZXSD2	5,5	10,5	22,5	38,8	159,7	120,9
EWAH545TZXSD2	5,5	10,5	25,9	34,4	136,9	102,6
EWAH600TZXSD2	7,5	14,1	28,7	30,8	181,1	150,4
EWAH645TZXSD2	7,5	14,1	30,6	34,1	168,4	134,3
EWAH700TZXSD2	9,2	17,4	33,3	39,6	180,3	140,7
EWAH750TZXSD2	9,2	17,4	35,9	47,0	160,5	113,5
EWAH790TZXSD2	11,0	20,2	37,6	50,5	175,1	124,6
EWAH840TZXSD2	11,0	20,2	40,1	55,2	152,2	96,9
EWAH900TZXSD2	11,0	20,2	42,8	50,8	167,1	116,2
EWAH975TZXSD2	11,0	20,2	46,4	57,8	152,9	95,0
EWAHH10TZXSD2	11,0	20,2	51,6	29,9	130,8	100,9
EWAHH11TZXSD2	15,0	26,6	56,5	49,5	176,2	126,8
EWAHH12TZXSD2	15,0	26,5	60,8	55,9	187,5	131,6
EWAHH13TZXSD2	15,0	26,5	65,9	43,4	170,5	127,1

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XR|Gold Efficiency, reduced sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXRD1	2,2	4,6	10,3	10,2	115,5	105,3
EWAH230TZXRD1	2,2	4,6	10,9	11,3	104,1	92,8
EWAH275TZXRD1	4,0	7,8	13,0	12,7	151,0	138,3
EWAH300TZXRD1	4,0	7,8	14,1	14,9	140,4	125,5
EWAH350TZXRD1	5,5	10,5	16,5	32,5	190,6	158,0
EWAH400TZXRD1	5,5	10,5	18,8	41,5	180,1	138,6
EWAH470TZXRD1	5,5	10,5	22,0	31,2	162,6	131,4
EWAH515TZXRD1	5,5	10,5	23,7	35,9	151,9	116,0
EWAH540TZXRD1	5,5	10,5	25,2	24,0	142,3	118,3
EWAH620TZXRD1	7,5	14,1	29,0	31,2	179,7	148,5
EWAH465TZXRD2	5,5	10,5	22,3	38,1	161,0	122,9
EWAH545TZXRD2	5,5	10,5	25,6	33,7	139,1	105,3
EWAH600TZXRD2	7,5	14,1	28,3	30,1	183,7	153,6
EWAH645TZXRD2	7,5	14,1	30,2	33,2	171,4	138,2
EWAH700TZXRD2	9,2	17,4	32,8	38,6	183,6	145,0
EWAH750TZXRD2	9,2	17,4	35,5	46,1	164,0	117,9
EWAH790TZXRD2	11,0	20,2	37,2	49,8	178,5	128,7
EWAH840TZXRD2	11,0	20,2	39,7	54,9	156,3	101,4
EWAH900TZXRD2	11,0	20,2	42,3	49,8	169,2	119,3
EWAH975TZXRD2	11,0	20,2	45,8	56,5	155,3	98,7
EWAHH10TZXRD2	11,0	20,2	50,8	29,2	134,1	104,8
EWAHH11TZXRD2	15,0	26,6	55,6	48,7	180,4	131,7
EWAHH12TZXRD2	15,0	26,5	59,9	54,6	190,2	135,6
EWAHH13TZXRD2	15,0	26,5	65,0	42,4	173,7	131,4

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PS|Platinum Efficiency, standard sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPSD1	2,2	4,6	10,8	11,2	105,1	93,9
EWAH265TZPSD1	3,0	6,3	12,7	12,2	133,7	121,5
EWAH295TZPSD1	4,0	7,8	14,0	14,7	141,1	126,3
EWAH340TZPSD1	5,5	10,5	16,1	17,4	192,3	174,9
EWAH395TZPSD1	5,5	10,5	18,7	23,0	180,5	157,5
EWAH490TZPSD1	5,5	10,5	23,1	20,5	155,8	135,3
EWAH545TZPSD1	5,5	10,5	25,8	25,2	137,9	112,7
EWAH500TZPSD2	5,5	10,5	24,0	22,9	150,4	127,5
EWAH540TZPSD2	5,5	10,5	25,7	25,6	138,7	113,1
EWAH615TZPSD2	7,5	14,1	29,2	34,4	178,0	143,6
EWAH645TZPSD2	7,5	14,1	30,6	36,8	168,7	131,9
EWAH700TZPSD2	9,2	17,4	33,3	41,8	180,2	138,4
EWAH770TZPSD2	11,0	20,2	36,6	39,8	183,7	143,9
EWAH845TZPSD2	11,0	20,2	40,4	59,3	149,2	89,9
EWAH900TZPSD2	11,0	20,2	43,0	65,2	166,3	101,0
EWAH960TZPSD2	11,0	20,2	45,7	36,2	155,6	119,4
EWAHC10TZPSD2	11,0	20,2	48,0	38,9	146,2	107,3
EWAHH10TZPSD2	11,0	20,2	50,9	29,3	133,6	104,3
EWAHH11TZPSD2	15,0	26,6	55,5	33,3	181,3	148,0
EWAHC12TZPSD2	15,0	26,6	58,0	35,7	168,1	132,4

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PR|Platinum Efficiency, reduced sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPRD1	2,2	4,6	10,7	11,0	107,1	96,1
EWAH265TZPRD1	3,0	6,3	12,6	12,1	135,6	123,6
EWAH295TZPRD1	4,0	7,8	13,9	14,5	142,2	127,7
EWAH340TZPRD1	5,5	10,5	15,9	17,1	192,8	175,7
EWAH395TZPRD1	5,5	10,5	18,6	22,6	181,1	158,5
EWAH490TZPRD1	5,5	10,5	22,9	20,3	157,0	136,7
EWAH545TZPRD1	5,5	10,5	25,6	24,8	139,5	114,7
EWAH500TZPRD2	5,5	10,5	23,7	22,5	152,0	129,5
EWAH540TZPRD2	5,5	10,5	25,4	25,2	140,5	115,3
EWAH615TZPRD2	7,5	14,1	28,9	33,8	180,3	146,6
EWAH645TZPRD2	7,5	14,1	30,2	36,2	171,3	135,1
EWAH700TZPRD2	9,2	17,4	32,9	41,1	183,1	142,0
EWAH770TZPRD2	11,0	20,2	36,3	39,2	186,9	147,7
EWAH845TZPRD2	11,0	20,2	40,1	58,5	152,7	94,2
EWAH900TZPRD2	11,0	20,2	42,6	64,2	168,0	103,7
EWAH960TZPRD2	11,0	20,2	45,3	35,7	157,3	121,6
EWAHC10TZPRD2	11,0	20,2	47,4	38,3	148,4	110,1
EWAHH10TZPRD2	11,0	20,2	50,3	28,8	136,2	107,4
EWAHH11TZPRD2	15,0	26,6	54,8	32,8	184,5	151,7
EWAHC12TZPRD2	15,0	26,6	57,4	35,1	171,3	136,2

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.2 EWAD TZ-D – Single Pump Low Lift

EWAD TZ-D BS | Blue Efficiency | Single Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD275TZBSD1	3,0	6,3	13,1	16,03	126,0	110,0
EWAD320TZBSD1	4,0	7,8	15,1	21,01	154,2	133,2
EWAD345TZBSD1	4,0	7,8	16,5	24,86	113,9	89,0
EWAD400TZBSD1	5,5	10,5	20,0	46,64	174,0	127,4
EWAD470TZBSD1	5,5	10,5	22,3	57,23	161,0	103,8
EWAD525TZBSD1	5,5	10,5	24,8	39,07	144,6	105,5
EWAD580TZBSD1	7,5	14,1	27,4	47,21	189,6	142,4
EWAD625TZBSD1	7,5	14,1	29,7	54,51	174,8	120,3
EWAD510TZBSD2	5,5	10,5	24,5	30,66	147,2	116,6
EWAD545TZBSD2	5,5	10,5	25,9	34,15	137,0	102,9
EWAD570TZBSD2	5,5	10,5	27,3	37,49	126,6	89,1
EWAD630TZBSD2	7,5	14,1	20,3	48,26	229,0	180,7
EWAD670TZBSD2	7,5	14,1	32,1	36,95	157,5	120,6
EWAD755TZBSD2	9,2	17,4	35,9	49,78	160,4	110,6
EWAD830TZBSD2	11,0	20,2	39,4	58,16	159,1	100,9
EWAD915TZBSD2	11,0	20,2	43,7	42,61	163,4	120,8
EWADC10TZBSD2	11,0	20,2	47,6	48,66	147,8	99,1
EWADH10TZBSD2	15,0	26,6	52,1	50,93	197,8	146,9
EWADH11TZBSD2	15,0	26,6	55,7	56,68	180,2	123,5
EWADC12TZBSD2	15,0	26,5	59,0	62,27	193,0	130,8
EWADC13TZBSD2	15,0	26,5	63,5	70,19	178,6	108,5
EWADC14TZBSD2	15,0	26,5	67,0	77,14	166,7	89,6
EWADC15TZBSD2	18,5	32,5	73,2	51,5	187,7	136,2
EWADH16TZBSD2	N/A					
EWADH17TZBSD2	N/A					
EWADH18TZBSD2	N/A					
EWADH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0
(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.
(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%
- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D SS | Silver Efficiency | Single Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZSSD1	3,0	6,3	13,5	17,01	117,4	100,4
EWAD325TZSSD1	4,0	7,8	15,6	18,19	144,9	126,7
EWAD380TZSSD1	4,0	7,8	17,2	21,78	105,8	84,0
EWAD430TZSSD1	5,5	10,4	20,4	48,40	135,0	86,6
EWAD495TZSSD1	5,5	10,5	23,4	35,22	154,0	118,8
EWAD535TZSSD1	5,5	10,5	25,3	40,44	141,4	100,9
EWAD595TZSSD1	7,5	14,1	28,1	49,56	185,0	135,4
EWAD650TZSSD1	7,5	14,1	30,6	57,84	168,3	110,4
EWAD520TZSSD2	5,5	10,5	24,9	31,73	144,1	112,4
EWAD555TZSSD2	5,5	10,5	26,5	35,51	132,8	97,3
EWAD585TZSSD2	7,5	14,1	28,0	39,01	186,0	147,0
EWAD645TZSSD2	7,5	14,1	30,8	34,23	167,0	132,7
EWAD705TZSSD2	9,2	17,4	33,7	40,16	177,2	137,1
EWAD760TZSSD2	9,2	17,4	36,3	50,57	157,8	107,2
EWAD835TZSSD2	11,0	20,2	40,0	59,77	153,7	93,9
EWAD960TZSSD2	11,0	20,2	45,8	45,80	155,2	109,4
EWADC10TZSSD2	11,0	20,2	48,5	49,71	144,0	94,2
EWADH10TZSSD2	15,0	26,6	50,7	48,85	204,1	155,2
EWADH11TZSSD2	15,0	26,6	55,7	56,69	180,2	123,5
EWADH12TZSSD2	15,0	26,5	61,1	65,31	186,6	121,3
EWADH13TZSSD2	15,0	26,5	65,4	73,92	172,4	98,4
EWADH14TZSSD2	15,0	26,5	70,6	48,77	153,5	104,7
EWADH15TZSSD2	18,5	32,5	74,5	52,92	182,8	129,9
EWADH16TZSSD2	N/A					
EWADH17TZSSD2	N/A					
EWADH18TZSSD2	N/A					
EWADH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XS|Gold Efficiency, standard sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXSD1	3,0	6,3	14,1	18,2	106,2	88,0
EWAD345TZXSD1	4,0	7,8	16,4	20,0	129,0	109,0
EWAD380TZXSD1	5,5	10,5	18,0	23,9	183,7	159,8
EWAD440TZXSD1	5,5	10,5	20,7	28,0	169,9	141,9
EWAD515TZXSD1	5,5	10,5	24,2	37,4	148,7	111,3
EWAD565TZXSD1	5,5	10,5	26,7	26,8	131,2	104,4
EWAD635TZXSD1	7,5	14,1	30,0	33,5	172,6	139,1
EWAD705TZXSD1	9,2	17,4	33,4	40,7	179,0	138,3
EWAD760TZXSD1	9,2	17,4	36,1	47,3	158,8	111,6
EWAD525TZXSD2	5,5	10,5	25,0	39,5	143,4	104,0
EWAD565TZXSD2	5,5	10,5	27,0	45,1	129,3	84,1
EWAD610TZXSD2	7,5	14,1	29,1	31,4	178,6	147,2
EWAD670TZXSD2	7,5	14,1	31,9	36,4	159,6	123,2
EWAD725TZXSD2	9,2	17,4	34,5	38,5	170,9	132,4
EWAD805TZXSD2	11,0	20,2	38,3	34,7	169,4	134,7
EWAD880TZXSD2	11,0	20,2	41,9	39,8	170,6	130,8
EWAD950TZXSD2	11,0	20,2	45,3	45,0	157,2	112,2
EWADC10TZXSD2	11,0	20,2	47,4	48,3	148,7	100,3
EWADH10TZXSD2	15,0	26,6	50,6	53,7	204,5	150,8
EWADH11TZXSD2	15,0	26,6	53,8	53,7	189,3	135,6
EWADC12TZXSD2	11,0	20,0	56,9	58,8	145,1	86,3
EWADH12TZXSD2	11,0	20,0	61,3	39,3	130,7	91,5
EWADH13TZXSD2	15,0	26,5	64,8	42,7	174,5	131,8
EWADH14TZXSD2	15,0	26,5	69,3	47,4	158,4	111,0
EWADH15TZXSD2	N/A					
EWADH16TZXSD2	N/A					
EWADH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XR|Gold Efficiency, reduced sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXRD1	3,0	6,3	13,9	17,8	110,1	92,3
EWAD345TZXRD1	4,0	7,8	16,3	19,6	132,4	112,8
EWAD380TZXRD1	5,5	10,5	17,8	23,3	184,7	161,4
EWAD440TZXRD1	5,5	10,5	20,6	27,5	170,8	143,4
EWAD515TZXRD1	5,5	10,5	24,0	36,7	150,5	113,8
EWAD565TZXRD1	5,5	10,5	26,5	26,5	133,0	106,4
EWAD635TZXRD1	7,5	14,1	29,7	32,9	174,8	141,9
EWAD705TZXRD1	9,2	17,4	33,0	39,7	182,1	142,5
EWAD760TZXRD1	9,2	17,4	35,6	45,9	163,1	117,2
EWAD525TZXRD2	5,5	10,5	24,7	38,7	145,3	106,6
EWAD565TZXRD2	5,5	10,5	26,7	44,3	131,5	87,2
EWAD610TZXRD2	7,5	14,1	26,8	30,9	193,3	162,4
EWAD670TZXRD2	7,5	14,1	31,5	35,6	162,1	126,5
EWAD725TZXRD2	9,2	17,4	34,1	37,6	174,1	136,5
EWAD805TZXRD2	11,0	20,2	37,8	34,1	173,4	139,3
EWAD880TZXRD2	11,0	20,2	41,4	39,1	172,5	133,4
EWAD950TZXRD2	11,0	20,2	44,7	44,1	159,5	115,3
EWADC10TZXRD2	11,0	20,2	46,9	47,5	150,8	103,3
EWADH10TZXRD2	15,0	26,6	50,0	52,5	207,3	154,8
EWADH11TZXRD2	15,0	26,6	53,3	52,8	192,2	139,5
EWADC12TZXRD2	11,0	20,0	56,2	57,6	147,3	89,7
EWADH12TZXRD2	11,0	20,0	60,5	38,5	133,6	95,2
EWADH13TZXRD2	15,0	26,5	63,9	41,8	177,4	135,5
EWADH14TZXRD2	15,0	26,5	68,4	46,4	161,8	115,4
EWADH15TZXRD2	N/A					
EWADH16TZXRD2	N/A					
EWADH17TZXRD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PS|Platinum Efficiency, standard sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPSD1	3,0	6,3	13,6	14,0	115,3	101,3
EWAD330TZPSD1	4,0	7,8	15,8	18,5	142,1	123,5
EWAD370TZPSD1	5,5	10,5	17,6	22,7	185,9	163,2
EWAD405TZPSD1	5,5	10,5	19,2	24,3	178,2	154,0
EWAD450TZPSD1	5,5	10,5	21,3	18,0	166,6	148,6
EWAD490TZPSD1	5,5	10,5	23,2	20,9	155,5	134,6
EWAD530TZPSD2	5,5	10,5	25,3	40,2	141,7	101,5
EWAD575TZPSD2	5,5	10,5	27,3	46,0	127,1	81,1
EWAD615TZPSD2	7,5	14,1	29,5	31,9	176,3	144,3
EWAD675TZPSD2	7,5	14,1	32,2	27,2	156,8	129,6
EWAD735TZPSD2	9,2	17,4	35,0	39,3	167,5	128,2
EWAD810TZPSD2	11,0	20,2	38,6	35,2	166,1	130,9
EWAD890TZPSD2	11,0	20,2	42,2	40,4	169,2	128,9
EWAD960TZPSD2	11,0	20,2	45,7	45,7	155,5	109,9
EWADC10TZPSD2	11,0	20,2	47,8	49,0	146,9	97,9
EWADH10TZPSD2	15,0	26,6	51,1	54,2	202,3	148,1
EWADH11TZPSD2	15,0	26,6	54,2	54,3	187,5	133,2
EWADC12TZPSD2	15,0	26,6	57,4	59,5	171,4	111,9
EWADH12TZPSD2	11,0	20,0	61,9	39,8	128,9	89,1
EWADH13TZPSD2	15,0	26,5	65,4	43,3	172,4	129,0
EWADH14TZPSD2	15,0	26,5	69,4	47,4	158,2	110,8
EWADH15TZPSD2	18,5	32,5	74,8	53,3	181,7	128,4

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PR|Platinum Efficiency, reduced sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPRD1	3,0	6,3	13,5	13,8	117,4	103,6
EWAD330TZPRD1	4,0	7,8	15,7	18,3	144,0	125,7
EWAD370TZPRD1	5,5	10,5	17,4	22,3	186,5	164,2
EWAD405TZPRD1	5,5	10,5	19,0	24,0	178,9	154,9
EWAD450TZPRD1	5,5	10,5	21,2	17,4	167,5	150,1
EWAD490TZPRD1	5,5	10,5	23,0	20,6	156,5	135,9
EWAD530TZPRD2	5,5	10,5	25,0	39,6	143,3	103,8
EWAD575TZPRD2	5,5	10,5	27,0	45,2	129,0	83,8
EWAD615TZPRD2	7,5	14,1	29,2	31,5	178,0	146,4
EWAD675TZPRD2	7,5	14,1	32,0	36,5	158,9	122,4
EWAD735TZPRD2	9,2	17,4	34,6	38,6	170,2	131,6
EWAD810TZPRD2	11,0	20,2	38,2	34,7	169,6	135,0
EWAD890TZPRD2	11,0	20,2	41,8	39,8	170,8	131,1
EWAD960TZPRD2	11,0	20,2	45,2	44,9	157,5	112,6
EWADC10TZPRD2	11,0	20,2	47,4	48,3	148,8	100,5
EWADH10TZPRD2	15,0	26,6	50,6	53,6	204,7	151,0
EWADH11TZPRD2	15,0	26,6	53,7	53,5	190,0	136,5
EWADC12TZPRD2	15,0	26,6	56,8	58,5	174,6	116,1
EWADH12TZPRD2	11,0	20,0	61,1	39,1	131,5	92,4
EWADH13TZPRD2	15,0	26,5	64,7	42,6	174,9	132,4
EWADH14TZPRD2	15,0	26,5	68,4	46,4	161,6	115,2
EWADH15TZPRD2	18,5	32,5	73,6	52,0	186,0	134,0

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.3 EWAS TZ-D – Single Pump Low Lift

EWAS TZ-D BS | Blue Efficiency | Single Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS275TZBSD1	3,0	6,3	12,4	24,6	140,7	116,1
EWAS320TZBSD1	4,0	7,8	14,8	20,2	159,5	139,3
EWAS345TZBSD1	4,0	7,8	16,1	23,8	118,4	94,6
EWAS400TZBSD1	5,5	10,5	19,4	44,0	177,2	133,2
EWAS470TZBSD1	5,5	10,5	21,5	53,6	165,4	111,8
EWAS525TZBSD1	5,5	10,5	24,1	37,1	149,5	112,4
EWAS580TZBSD1	7,5	14,1	26,5	44,2	195,4	151,3
EWAS625TZBSD1	7,5	14,1	28,5	50,7	182,7	132,0
EWAS755TZBSD2	9,2	17,4	35,0	47,7	167,3	119,6
EWAS830TZBSD2	11,0	20,2	38,2	54,8	170,3	115,5
EWAS915TZBSD2	11,0	20,2	42,2	40,3	169,5	129,2
EWASC10TZBSD2	11,0	20,2	46,8	47,4	151,0	103,5
EWASH10TZBSD2	15,0	26,6	50,1	47,8	207,1	159,3
EWASH11TZBSD2	15,0	26,6	53,7	53,5	189,9	136,4
EWASC12TZBSD2	15,0	26,5	57,1	59,0	198,7	139,7
EWASC13TZBSD2	15,0	26,5	60,3	63,8	189,0	125,2
EWASC14TZBSD2	15,0	26,5	63,6	70,4	178,4	108,0
EWASC15TZBSD2	18,5	32,5	68,0	45,9	206,2	160,3
EWASH16TZBSD2	N/A					
EWASH17TZBSD2	N/A					
EWASH18TZBSD2	N/A					
EWASH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D SS | Silver Efficiency | Single Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZSSD1	3,0	6,3	13,6	17,2	116,1	99,0
EWAS325TZSSD1	4,0	7,8	15,7	18,4	143,2	124,8
EWAS380TZSSD1	4,0	7,8	17,9	37,9	97,4	59,5
EWAS430TZSSD1	5,5	10,4	20,3	48,3	135,5	87,2
EWAS495TZSSD1	5,5	10,5	23,3	34,8	155,0	120,2
EWAS535TZSSD1	5,5	10,5	25,3	40,3	141,7	101,4
EWAS595TZSSD1	7,5	14,1	27,9	48,9	186,3	137,4
EWAS650TZSSD1	7,5	14,1	30,3	56,6	170,6	114,0
EWAS520TZSSD2	5,5	10,5	24,9	31,7	144,2	112,5
EWAS555TZSSD2	5,5	10,5	26,4	35,3	133,5	98,2
EWAS585TZSSD2	7,5	14,1	27,8	38,6	187,1	148,5
EWAS645TZSSD2	7,5	14,1	30,8	34,1	167,3	133,2
EWAS705TZSSD2	9,2	17,4	33,5	39,8	178,5	138,7
EWAS760TZSSD2	9,2	17,4	36,2	50,3	158,5	108,2
EWAS835TZSSD2	11,0	20,2	39,7	59,1	155,9	96,8
EWAS960TZSSD2	11,0	20,2	45,3	45,0	157,4	112,4
EWASC10TZSSD2	11,0	20,2	47,8	48,9	147,1	98,2
EWASH10TZSSD2	15,0	26,6	49,8	47,4	208,5	161,2
EWASH11TZSSD2	15,0	26,6	54,8	55,2	184,8	129,6
EWASH12TZSSD2	15,0	26,5	60,5	64,1	188,5	124,4
EWASH13TZSSD2	15,0	26,5	64,8	72,7	174,4	101,7
EWASH14TZSSD2	15,0	26,5	69,9	47,9	156,4	108,4
EWASH15TZSSD2	18,5	32,5	73,5	51,9	186,3	134,3
EWASH16TZSSD2	N/A					
EWASH17TZSSD2	N/A					
EWASH18TZSSD2	N/A					
EWASH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D XS|Gold Efficiency, standard sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS295TZXSD1	3,0	6,3	14,0	18,1	107,3	89,2
EWAS345TZXSD1	4,0	7,8	16,5	20,1	128,6	108,6
EWAS380TZXSD1	5,5	10,5	18,0	23,8	183,9	160,1
EWAS440TZXSD1	5,5	10,5	20,8	28,1	169,6	141,5
EWAS515TZXSD1	5,5	10,5	24,2	37,2	149,2	111,9
EWAS565TZXSD1	5,5	10,5	26,7	26,8	131,2	104,4
EWAS635TZXSD1	7,5	14,1	29,9	33,3	173,4	140,1
EWAS705TZXSD1	9,2	17,4	33,2	40,1	180,6	140,5
EWAS760TZXSD1	9,2	17,4	35,7	46,3	161,9	115,6
EWAS525TZXSD2	5,5	10,5	25,0	39,5	143,4	103,9
EWAS565TZXSD2	5,5	10,5	26,7	26,8	131,2	104,4
EWAS610TZXSD2	7,5	14,1	29,1	31,4	178,6	147,3
EWAS670TZXSD2	7,5	14,1	31,8	36,1	160,4	124,2
EWAS725TZXSD2	9,2	17,4	34,3	38,1	172,5	134,4
EWAS805TZXSD2	11,0	20,2	37,4	33,5	177,1	143,5
EWAS880TZXSD2	11,0	20,2	41,6	39,5	171,5	132,0
EWAS950TZXSD2	11,0	20,2	44,9	44,4	158,8	114,3
EWASC10TZXSD2	11,0	20,2	47,1	47,9	149,7	101,8
EWASH10TZXSD2	15,0	26,6	50,2	52,9	206,5	153,7
EWASH11TZXSD2	15,0	26,6	53,5	53,2	191,0	137,8
EWASC12TZXSD2	11,0	20,0	56,4	57,9	146,7	88,9
EWASH12TZXSD2	11,0	20,0	62,0	39,9	128,5	88,6
EWASH13TZXSD2	15,0	26,5	64,1	42,0	176,8	134,8
EWASH14TZXSD2	15,0	26,5	68,8	46,8	160,4	113,7
EWASH15TZXSD2	N/A					
EWASH16TZXSD2	N/A					
EWASH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D PS|Platinum Efficiency, standard sound|Single Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZPSD1	3,0	6,3	13,7	14,2	113,4	99,2
EWAS330TZPSD1	4,0	7,8	15,9	18,8	139,5	120,7
EWAS370TZPSD1	5,5	10,5	17,7	23,0	185,4	162,4
EWAS405TZPSD1	5,5	10,5	19,3	24,7	177,4	152,7
EWAS450TZPSD1	5,5	10,5	21,5	18,2	165,8	147,6
EWAS490TZPSD1	5,5	10,5	23,3	21,0	154,8	133,7
EWAS530TZPSD2	5,5	10,5	25,4	40,5	141,0	100,5
EWAS575TZPSD2	5,5	10,5	27,4	46,2	126,5	80,3
EWAS615TZPSD2	7,5	14,1	29,6	32,1	175,5	143,3
EWAS675TZPSD2	7,5	14,1	32,3	37,3	156,4	119,2
EWAS735TZPSD2	9,2	17,4	35,0	39,3	167,8	128,5
EWAS810TZPSD2	11,0	20,2	38,6	35,2	166,0	130,8
EWAS890TZPSD2	11,0	20,2	42,2	40,3	169,5	129,2
EWAS960TZPSD2	11,0	20,2	45,5	45,3	156,4	111,0
EWASC10TZPSD2	11,0	20,2	47,7	48,9	147,2	98,3
EWASH10TZPSD2	15,0	26,6	50,9	54,2	203,3	149,1
EWASH11TZPSD2	15,0	26,6	53,0	58,1	193,7	135,6
EWASC12TZPSD2	15,0	26,6	57,1	59,0	172,9	113,9
EWASH12TZPSD2	11,0	20,0	61,4	39,4	130,4	91,1
EWASH13TZPSD2	15,0	26,5	65,0	42,9	173,8	130,9
EWASH14TZPSD2	15,0	26,5	68,8	46,8	160,3	113,4
EWASH15TZPSD2	18,5	32,5	74,0	52,5	184,4	132,0

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.4 EWAH TZ-D – Single Pump High Lift

EWAH TZ-D BS | Blue Efficiency | Single Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH235TZBSD1	4,0	7,8	11,2	12,0	211,9	199,9
EWAH255TZBSD1	4,0	7,8	12,2	13,9	199,8	185,9
EWAH300TZBSD1	5,5	10,4	14,4	15,5	206,2	190,7
EWAH350TZBSD1	7,5	14,1	17,2	35,1	223,7	188,6
EWAH400TZBSD1	7,5	14,1	19,0	42,5	205,2	162,8
EWAH420TZBSD1	7,5	14,1	19,9	46,3	231,0	184,7
EWAH455TZBSD1	9,2	17,4	21,4	53,1	252,6	199,6
EWAH505TZBSD1	9,2	17,4	23,9	36,2	239,8	203,6
EWAH545TZBSD1	9,2	17,4	25,6	41,4	229,8	188,4
EWAH400TZBSD2	7,5	14,1	19,0	42,5	235,2	192,7
EWAH425TZBSD2	7,5	14,1	20,3	32,3	229,2	196,9
EWAH485TZBSD2	9,2	17,4	23,3	34,9	243,1	208,2
EWAH545TZBSD2	9,2	17,4	25,6	41,5	229,8	188,3
EWAH590TZBSD2	11,0	20,2	27,5	46,0	253,2	207,2
EWAH635TZBSD2	11,0	20,2	30,2	44,3	234,6	190,3
EWAH745TZBSD2	15,0	26,6	35,4	48,8	262,4	213,6
EWAH785TZBSD2	15,0	26,6	37,5	53,9	255,8	201,9
EWAH845TZBSD2	15,0	26,6	40,2	55,0	246,7	191,7
EWAH900TZBSD2	18,5	33,0	42,9	62,1	285,5	223,4
EWAH985TZBSD2	18,5	33,0	46,9	59,0	269,7	210,7
EWAHC11TZBSD2	18,5	33,0	52,7	44,8	244,0	199,2
EWAHH11TZBSD2	18,5	33,0	56,1	49,4	226,6	177,2
EWAHC13TZBSD2	22,0	42,2	62,7	40,2	251,5	211,3
EWAHH13TZBSD2	22,0	39,0	66,1	43,6	264,7	221,1
EWAHH14TZBSD2	22,0	39,0	70,3	48,4	251,2	202,8
EWAHC15TZBSD2	22,0	39,0	73,2	51,8	241,2	189,4
EWAHH15TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D SS | Silver Efficiency | Single Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH240TZSSD1	4,0	7,8	11,6	12,6	207,9	195,2
EWAH265TZSSD1	5,5	10,4	12,6	14,9	221,1	206,2
EWAH295TZSSD1	5,5	10,4	14,1	15,0	208,5	193,5
EWAH370TZSSD1	7,5	14,1	17,5	36,4	220,7	184,3
EWAH415TZSSD1	7,5	14,1	19,5	44,6	199,9	155,3
EWAH450TZSSD1	7,5	14,1	21,3	29,4	224,1	194,7
EWAH490TZSSD1	9,2	17,4	23,2	34,3	243,5	209,2
EWAH540TZSSD1	9,2	17,4	25,5	40,9	230,8	190,0
EWAH400TZSSD2	7,5	14,1	19,2	29,5	234,3	204,8
EWAH470TZSSD2	9,2	17,4	22,4	38,4	247,8	209,4
EWAH535TZSSD2	9,2	17,4	24,3	37,5	237,6	200,0
EWAH595TZSSD2	11,0	20,2	28,3	39,2	248,1	208,9
EWAH630TZSSD2	11,0	20,2	29,9	43,5	236,9	193,4
EWAH690TZSSD2	15,0	26,6	33,2	43,4	268,8	225,4
EWAH740TZSSD2	15,0	26,6	35,4	48,7	262,6	213,9
EWAH795TZSSD2	15,0	26,6	37,9	55,0	254,4	199,4
EWAH855TZSSD2	18,5	33,0	40,8	56,8	293,1	236,3
EWAH910TZSSD2	18,5	33,0	43,4	63,4	283,7	220,3
EWAH980TZSSD2	18,5	33,0	46,9	72,2	269,8	197,7
EWAHC10TZSSD2	18,5	33,0	49,8	65,3	257,5	192,2
EWAHC11TZSSD2	18,5	33,0	53,1	45,3	242,1	196,8
EWAHC12TZSSD2	22,0	42,2	57,7	51,4	277,8	226,4
EWAHH12TZSSD2	22,0	42,2	63,5	41,0	247,1	206,1
EWAHH13TZSSD2	22,0	39,0	67,0	44,7	261,8	217,1
EWAHC14TZSSD2	22,0	39,0	71,1	49,4	248,4	199,0
EWAHC15TZSSD2	22,0	39,0	73,5	52,2	240,0	187,9
EWAHH15TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XS|Gold Efficiency, standard sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXSD1	4,0	7,8	10,5	10,5	219,7	209,2
EWAH230TZXSD1	5,5	10,4	11,1	11,7	232,1	220,4
EWAH275TZXSD1	5,5	10,4	13,1	13,0	217,3	204,3
EWAH300TZXSD1	5,5	10,4	14,3	15,3	207,2	192,0
EWAH350TZXSD1	7,5	14,1	16,6	33,2	228,7	195,5
EWAH400TZXSD1	7,5	14,1	19,0	42,3	235,4	193,1
EWAH470TZXSD1	9,2	17,4	22,2	31,8	248,5	216,7
EWAH515TZXSD1	9,2	17,4	24,1	36,8	238,7	201,9
EWAH540TZXSD1	9,2	17,4	25,5	24,6	230,6	206,0
EWAH620TZXSD1	11,0	20,2	29,4	32,1	240,1	208,0
EWAH465TZXSD2	9,2	17,4	22,5	38,8	247,1	208,3
EWAH545TZXSD2	9,2	17,4	25,9	34,4	228,0	193,6
EWAH600TZXSD2	11,0	20,2	28,7	30,8	244,9	214,1
EWAH645TZXSD2	11,0	20,2	30,6	34,1	231,7	197,6
EWAH700TZXSD2	15,0	26,6	33,3	39,6	268,7	229,1
EWAH750TZXSD2	15,0	26,6	35,9	47,0	260,9	213,9
EWAH790TZXSD2	15,0	26,6	37,6	50,5	255,4	204,9
EWAH840TZXSD2	15,0	26,6	40,1	55,2	247,0	191,8
EWAH900TZXSD2	18,5	33,0	42,8	50,8	285,9	235,0
EWAH975TZXSD2	18,5	33,0	46,4	57,8	272,0	214,2
EWAHH10TZXSD2	18,5	33,0	51,6	29,9	249,1	219,2
EWAHH11TZXSD2	18,5	33,0	56,5	49,5	224,9	175,4
EWAHH12TZXSD2	22,0	42,2	60,8	55,9	261,9	206,0
EWAHH13TZXSD2	22,0	39,0	65,9	43,4	265,2	221,8

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XR|Gold Efficiency, reduced sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXRD1	4,0	7,8	10,3	10,2	221,4	211,2
EWAH230TZXRD1	5,5	10,4	10,9	11,3	233,3	222,0
EWAH275TZXRD1	5,5	10,4	13,0	12,7	218,6	205,9
EWAH300TZXRD1	5,5	10,4	14,1	14,9	209,1	194,2
EWAH350TZXRD1	7,5	14,1	16,5	32,5	230,1	197,5
EWAH400TZXRD1	7,5	14,1	18,8	41,5	236,3	194,8
EWAH470TZXRD1	9,2	17,4	22,0	31,2	249,6	218,4
EWAH515TZXRD1	9,2	17,4	23,7	35,9	240,4	204,5
EWAH540TZXRD1	9,2	17,4	25,2	24,0	232,4	208,4
EWAH620TZXRD1	11,0	20,2	29,0	31,2	243,4	212,2
EWAH465TZXRD2	9,2	17,4	22,3	38,1	248,2	210,1
EWAH545TZXRD2	9,2	17,4	25,6	33,7	229,8	196,0
EWAH600TZXRD2	11,0	20,2	28,3	30,1	247,5	217,4
EWAH645TZXRD2	11,0	20,2	30,2	33,2	234,8	201,6
EWAH700TZXRD2	15,0	26,6	32,8	38,6	270,0	231,4
EWAH750TZXRD2	15,0	26,6	35,5	46,1	262,3	216,1
EWAH790TZXRD2	15,0	26,6	37,2	49,8	256,7	206,9
EWAH840TZXRD2	15,0	26,6	39,7	54,9	248,5	193,6
EWAH900TZXRD2	18,5	33,0	42,3	49,8	287,8	238,0
EWAH975TZXRD2	18,5	33,0	45,8	56,5	274,4	217,9
EWAHH10TZXRD2	18,5	33,0	50,8	29,2	252,6	223,4
EWAHH11TZXRD2	18,5	33,0	55,6	48,7	229,1	180,4
EWAHH12TZXRD2	22,0	42,2	59,9	54,6	266,5	211,9
EWAHH13TZXRD2	22,0	39,0	65,0	42,4	268,1	225,7

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PS|Platinum Efficiency, standard sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPSD1	4,0	7,8	10,8	11,2	215,9	204,7
EWAH265TZPSD1	5,5	10,4	12,7	12,2	220,5	208,3
EWAH295TZPSD1	5,5	10,4	14,0	14,7	209,7	195,0
EWAH340TZPSD1	5,5	10,4	16,1	17,4	189,5	172,1
EWAH395TZPSD1	7,5	14,1	18,7	23,0	208,5	185,6
EWAH490TZPSD1	9,2	17,4	23,1	20,5	243,8	223,2
EWAH545TZPSD1	9,2	17,4	25,8	25,2	228,8	203,6
EWAH500TZPSD2	9,2	17,4	24,0	22,9	239,2	216,3
EWAH540TZPSD2	9,2	17,4	25,7	25,6	229,5	203,9
EWAH615TZPSD2	11,0	20,2	29,2	34,4	241,6	207,2
EWAH645TZPSD2	11,0	20,2	30,6	36,8	232,0	195,1
EWAH700TZPSD2	15,0	26,6	33,3	41,8	268,7	226,9
EWAH770TZPSD2	15,0	26,6	36,6	39,8	258,6	218,7
EWAH845TZPSD2	18,5	33,0	40,4	59,3	294,2	234,8
EWAH900TZPSD2	18,5	33,0	43,0	65,2	285,1	219,9
EWAH960TZPSD2	18,5	33,0	45,7	36,2	274,7	238,5
EWAHC10TZPSD2	18,5	33,0	48,0	38,9	265,3	226,4
EWAHH10TZPSD2	18,5	33,0	50,9	29,3	252,1	222,8
EWAHH11TZPSD2	18,5	33,0	55,5	33,3	230,0	196,7
EWAHC12TZPSD2	18,5	33,0	58,0	35,7	216,6	180,9

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PR|Platinum Efficiency, reduced sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPRD1	4,0	7,8	10,7	11,0	217,0	206,0
EWAH265TZPRD1	5,5	10,4	12,6	12,1	221,3	209,2
EWAH295TZPRD1	5,5	10,4	13,9	14,5	210,8	196,3
EWAH340TZPRD1	5,5	10,4	15,9	17,1	190,9	173,8
EWAH395TZPRD1	7,5	14,1	18,6	22,6	210,0	187,3
EWAH490TZPRD1	9,2	17,4	22,9	20,3	244,7	224,5
EWAH545TZPRD1	9,2	17,4	25,6	24,8	230,1	205,3
EWAH500TZPRD2	9,2	17,4	23,7	22,5	240,5	218,0
EWAH540TZPRD2	9,2	17,4	25,4	25,2	230,9	205,7
EWAH615TZPRD2	11,0	20,2	28,9	33,8	244,1	210,3
EWAH645TZPRD2	11,0	20,2	30,2	36,2	234,6	198,5
EWAH700TZPRD2	15,0	26,6	32,9	41,1	269,8	228,7
EWAH770TZPRD2	15,0	26,6	36,3	39,2	259,7	220,5
EWAH845TZPRD2	18,5	33,0	40,1	58,5	295,4	236,9
EWAH900TZPRD2	18,5	33,0	42,6	64,2	286,7	222,5
EWAH960TZPRD2	18,5	33,0	45,3	35,7	276,4	240,8
EWAHC10TZPRD2	18,5	33,0	47,4	38,3	267,6	229,3
EWAHH10TZPRD2	18,5	33,0	50,3	28,8	254,9	226,0
EWAHH11TZPRD2	18,5	33,0	54,8	32,8	233,3	200,6
EWAHC12TZPRD2	18,5	33,0	57,4	35,1	219,8	184,7

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.5 EWAD TZ-D – Single Pump High Lift

EWAD TZ-D BS | Blue Efficiency | Single Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD275TZBSD1	5,5	10,4	13,1	16,0	217,4	201,4
EWAD320TZBSD1	5,5	10,4	15,1	21,0	199,2	178,2
EWAD345TZBSD1	5,5	10,4	16,5	24,9	184,5	159,6
EWAD400TZBSD1	7,5	14,1	20,0	46,6	230,7	184,1
EWAD470TZBSD1	9,2	17,4	22,3	57,2	248,2	191,0
EWAD525TZBSD1	9,2	17,4	24,8	39,1	234,3	195,3
EWAD580TZBSD1	11,0	20,2	27,4	47,2	253,7	206,4
EWAD625TZBSD1	11,0	20,2	29,7	54,5	238,3	183,8
EWAD510TZBSD2	9,2	17,4	24,5	30,7	236,5	205,9
EWAD545TZBSD2	9,2	17,4	25,9	34,2	228,1	193,9
EWAD570TZBSD2	9,2	17,4	27,3	37,5	219,6	182,1
EWAD630TZBSD2	11,0	20,2	20,3	48,3	293,8	245,5
EWAD670TZBSD2	11,0	20,2	32,1	37,0	220,3	183,4
EWAD755TZBSD2	15,0	26,6	35,9	49,8	291,0	241,3
EWAD830TZBSD2	15,0	26,6	39,4	58,2	262,9	204,7
EWAD915TZBSD2	15,0	26,6	43,7	42,6	223,8	181,2
EWADC10TZBSD2	18,5	33,0	47,6	48,7	238,0	189,3
EWADH10TZBSD2	18,5	33,0	52,1	50,9	246,8	195,8
EWADH11TZBSD2	22,0	42,2	55,7	56,7	287,8	231,2
EWADC12TZBSD2	22,0	39,0	59,0	62,3	284,9	222,6
EWADC13TZBSD2	22,0	39,0	63,5	70,2	272,4	202,2
EWADC14TZBSD2	22,0	39,0	67,0	77,1	261,9	184,7
EWADC15TZBSD2	22,0	39,0	73,2	51,5	241,3	189,8
EWADH16TZBSD2	30,0	53,0	79,4	58,5	297,4	238,9
EWADH17TZBSD2	N/A					
EWADH18TZBSD2	N/A					
EWADH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D SS | Silver Efficiency | Single Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZSSD1	5,5	10,4	13,5	17,0	213,9	196,9
EWAD325TZSSD1	5,5	10,4	15,6	18,2	194,1	176,0
EWAD380TZSSD1	7,5	14,1	17,2	21,8	223,5	201,7
EWAD430TZSSD1	9,2	17,4	20,4	48,4	257,8	209,4
EWAD495TZSSD1	9,2	17,4	23,4	35,2	242,2	207,0
EWAD535TZSSD1	9,2	17,4	25,3	40,4	231,7	191,2
EWAD595TZSSD1	11,0	20,2	28,1	49,6	248,8	199,3
EWAD650TZSSD1	15,0	26,6	30,6	57,8	275,7	217,9
EWAD520TZSSD2	9,2	17,4	24,9	31,7	233,9	202,2
EWAD555TZSSD2	9,2	17,4	26,5	35,5	224,6	189,1
EWAD585TZSSD2	11,0	20,2	28,0	39,0	249,9	210,9
EWAD645TZSSD2	11,0	20,2	30,8	34,2	230,1	195,9
EWAD705TZSSD2	15,0	26,6	33,7	40,2	267,5	227,4
EWAD760TZSSD2	15,0	26,6	36,3	50,6	259,8	209,2
EWAD835TZSSD2	18,5	33,0	40,0	59,8	295,8	236,0
EWAD960TZSSD2	18,5	33,0	45,8	45,8	274,3	228,5
EWADC10TZSSD2	18,5	33,0	48,5	49,7	263,0	213,3
EWADH10TZSSD2	18,5	33,0	50,7	48,9	253,1	204,2
EWADH11TZSSD2	22,0	42,2	55,7	56,7	287,8	231,2
EWADH12TZSSD2	22,0	42,2	61,1	65,3	260,3	195,0
EWADH13TZSSD2	22,0	39,0	65,4	73,9	266,8	192,9
EWADH14TZSSD2	22,0	39,0	70,6	48,8	250,0	201,3
EWADH15TZSSD2	22,0	39,0	74,5	52,9	236,6	183,7
EWADH16TZSSD2	30,0	53,0	79,4	58,5	297,4	238,9
EWADH17TZSSD2	N/A					
EWADH18TZSSD2	N/A					
EWADH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XS|Gold Efficiency, standard sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXSD1	5,5	10,4	14,1	18,2	209,3	191,1
EWAD345TZXSD1	5,5	10,4	16,4	20,0	185,5	165,5
EWAD380TZXSD1	7,5	14,1	18,0	23,9	215,4	191,5
EWAD440TZXSD1	7,5	14,1	20,7	28,0	185,6	157,6
EWAD515TZXSD1	9,2	17,4	24,2	37,4	237,7	200,3
EWAD565TZXSD1	9,2	17,4	26,7	26,8	223,3	196,5
EWAD635TZXSD1	11,0	20,2	30,0	33,5	236,0	202,5
EWAD705TZXSD1	15,0	26,6	33,4	40,7	268,2	227,5
EWAD760TZXSD1	15,0	26,6	36,1	47,3	260,2	212,9
EWAD525TZXSD2	9,2	17,4	25,0	39,5	233,4	193,9
EWAD565TZXSD2	11,0	20,2	27,0	45,1	256,4	211,2
EWAD610TZXSD2	11,0	20,2	29,1	31,4	242,2	210,8
EWAD670TZXSD2	11,0	20,2	31,9	36,4	222,4	186,1
EWAD725TZXSD2	15,0	26,6	34,5	38,5	265,0	226,6
EWAD805TZXSD2	15,0	26,6	38,3	34,7	253,3	218,6
EWAD880TZXSD2	15,0	26,6	41,9	39,8	240,7	200,9
EWAD950TZXSD2	18,5	33,0	45,3	45,0	276,4	231,4
EWADC10TZXSD2	18,5	33,0	47,4	48,3	267,8	219,5
EWADH10TZXSD2	18,5	33,0	50,6	53,7	253,5	199,8
EWADH11TZXSD2	18,5	33,0	53,8	53,7	238,2	184,5
EWADC12TZXSD2	22,0	42,2	56,9	58,8	281,7	223,0
EWADH12TZXSD2	22,0	42,2	61,3	39,3	259,0	219,7
EWADH13TZXSD2	22,0	39,0	64,8	42,7	268,7	226,0
EWADH14TZXSD2	22,0	39,0	69,3	47,4	254,4	207,1
EWADH15TZXSD2	22,0	39,0	74,7	53,2	235,7	182,5
EWADH16TZXSD2	30,0	53,0	79,7	58,9	296,2	237,3
EWADH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XR|Gold Efficiency, reduced sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXRD1	5,5	10,4	13,9	17,8	210,9	193,1
EWAD345TZXRD1	5,5	10,4	16,3	19,6	187,3	167,7
EWAD380TZXRD1	7,5	14,1	17,8	23,3	217,6	194,2
EWAD440TZXRD1	7,5	14,1	20,6	27,5	187,7	160,2
EWAD515TZXRD1	9,2	17,4	24,0	36,7	239,2	202,5
EWAD565TZXRD1	9,2	17,4	26,5	26,5	224,8	198,2
EWAD635TZXRD1	11,0	20,2	29,7	32,9	238,3	205,4
EWAD705TZXRD1	15,0	26,6	33,0	39,7	269,4	229,8
EWAD760TZXRD1	15,0	26,6	35,6	45,9	261,9	216,0
EWAD525TZXRD2	9,2	17,4	24,7	38,7	234,9	196,2
EWAD565TZXRD2	11,0	20,2	26,7	44,3	258,3	214,0
EWAD610TZXRD2	11,0	20,2	26,8	30,9	257,4	226,6
EWAD670TZXRD2	11,0	20,2	31,5	35,6	225,1	189,5
EWAD725TZXRD2	15,0	26,6	34,1	37,6	266,3	228,7
EWAD805TZXRD2	15,0	26,6	37,8	34,1	254,8	220,7
EWAD880TZXRD2	15,0	26,6	41,4	39,1	242,5	203,4
EWAD950TZXRD2	18,5	33,0	44,7	44,1	278,6	234,4
EWADC10TZXRD2	18,5	33,0	46,9	47,5	270,0	222,5
EWADH10TZXRD2	18,5	33,0	50,0	52,5	256,4	203,8
EWADH11TZXRD2	18,5	33,0	53,3	52,8	241,1	188,4
EWADC12TZXRD2	22,0	42,2	56,2	57,6	285,1	227,5
EWADH12TZXRD2	22,0	42,2	60,5	38,5	263,6	225,1
EWADH13TZXRD2	22,0	39,0	63,9	41,8	271,3	229,4
EWADH14TZXRD2	22,0	39,0	68,4	46,4	257,5	211,1
EWADH15TZXRD2	22,0	39,0	73,6	51,9	239,9	188,0
EWADH16TZXRD2	30,0	53,0	78,3	57,1	301,6	244,6
EWADH17TZXRD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PS|Platinum Efficiency, standard sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPSD1	5,5	10,4	13,6	14,0	213,0	199,0
EWAD330TZPSD1	5,5	10,4	15,8	18,5	192,6	174,1
EWAD370TZPSD1	7,5	14,1	17,6	22,7	220,1	197,4
EWAD405TZPSD1	7,5	14,1	19,2	24,3	203,7	179,5
EWAD450TZPSD1	7,5	14,1	21,3	18,0	224,1	206,1
EWAD490TZPSD1	7,5	14,1	23,2	20,9	214,4	193,5
EWAD530TZPSD2	9,2	17,4	25,3	40,2	231,9	191,7
EWAD575TZPSD2	11,0	20,2	27,3	46,0	254,5	208,5
EWAD615TZPSD2	11,0	20,2	29,5	31,9	239,8	207,9
EWAD675TZPSD2	11,0	20,2	32,2	27,2	219,5	192,4
EWAD735TZPSD2	15,0	26,6	35,0	39,3	263,7	224,3
EWAD810TZPSD2	15,0	26,6	38,6	35,2	252,1	216,9
EWAD890TZPSD2	15,0	26,6	42,2	40,4	239,3	199,0
EWAD960TZPSD2	18,5	33,0	45,7	45,7	274,7	229,0
EWADC10TZPSD2	18,5	33,0	47,8	49,0	266,0	217,0
EWADH10TZPSD2	18,5	33,0	51,1	54,2	251,3	197,1
EWADH11TZPSD2	18,5	33,0	54,2	54,3	236,3	182,0
EWADC12TZPSD2	22,0	42,2	57,4	59,5	279,5	220,0
EWADH12TZPSD2	18,5	32,5	61,9	39,8	225,7	185,9
EWADH13TZPSD2	22,0	39,0	65,4	43,3	266,8	223,5
EWADH14TZPSD2	22,0	39,0	69,4	47,4	254,3	206,9
EWADH15TZPSD2	22,0	39,0	74,8	53,3	235,6	182,3

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PR|Platinum Efficiency, reduced sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPRD1	5,5	10,4	13,5	13,8	213,9	200,1
EWAD330TZPRD1	5,5	10,4	15,7	18,3	193,6	175,3
EWAD370TZPRD1	7,5	14,1	17,4	22,3	221,4	199,1
EWAD405TZPRD1	7,5	14,1	19,0	24,0	205,1	181,2
EWAD450TZPRD1	7,5	14,1	21,2	17,4	224,9	207,5
EWAD490TZPRD1	7,5	14,1	23,0	20,6	215,3	194,7
EWAD530TZPRD2	9,2	17,4	25,0	39,6	233,3	193,7
EWAD575TZPRD2	11,0	20,2	27,0	45,2	256,2	210,9
EWAD615TZPRD2	11,0	20,2	29,2	31,5	241,6	210,1
EWAD675TZPRD2	11,0	20,2	32,0	36,5	221,7	185,2
EWAD735TZPRD2	15,0	26,6	34,6	38,6	264,7	226,1
EWAD810TZPRD2	15,0	26,6	38,2	34,7	253,4	218,8
EWAD890TZPRD2	15,0	26,6	41,8	39,8	240,9	201,1
EWAD960TZPRD2	18,5	33,0	45,2	44,9	276,6	231,7
EWADC10TZPRD2	18,5	33,0	47,4	48,3	267,9	219,6
EWADH10TZPRD2	18,5	33,0	50,6	53,6	253,7	200,0
EWADH11TZPRD2	18,5	33,0	53,7	53,5	238,9	185,4
EWADC12TZPRD2	22,0	42,2	56,8	58,5	282,6	224,1
EWADH12TZPRD2	18,5	32,5	61,1	39,1	228,0	188,9
EWADH13TZPRD2	22,0	39,0	64,7	42,6	269,1	226,5
EWADH14TZPRD2	22,0	39,0	68,4	46,4	257,3	210,9
EWADH15TZPRD2	22,0	39,0	73,6	52,0	239,7	187,7

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.6 EWAS TZ-D – Single Pump High Lift

EWAS TZ-D BS | Blue Efficiency | Single Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS275TZBSD1	5,5	10,4	12,4	24,6	223,3	198,7
EWAS320TZBSD1	5,5	10,4	14,8	20,2	202,2	181,9
EWAS345TZBSD1	5,5	10,4	16,1	23,8	188,7	165,0
EWAS400TZBSD1	7,5	14,1	19,4	44,0	233,6	189,6
EWAS470TZBSD1	9,2	17,4	21,5	53,6	252,0	198,5
EWAS525TZBSD1	9,2	17,4	24,1	37,1	238,4	201,3
EWAS580TZBSD1	11,0	20,2	26,5	44,2	259,7	215,5
EWAS625TZBSD1	11,0	20,2	28,5	50,7	246,5	195,8
EWAS755TZBSD2	15,0	26,6	35,0	47,7	298,0	250,3
EWAS830TZBSD2	15,0	26,6	38,2	54,8	273,1	218,3
EWAS915TZBSD2	15,0	26,6	42,2	40,3	238,2	198,0
EWASC10TZBSD2	18,5	33,0	46,8	47,4	245,1	197,7
EWASH10TZBSD2	18,5	33,0	50,1	47,8	256,1	208,3
EWASH11TZBSD2	22,0	42,2	53,7	53,5	297,0	243,5
EWASC12TZBSD2	22,0	39,0	57,1	59,0	289,7	230,7
EWASC13TZBSD2	22,0	39,0	60,3	63,8	281,4	217,6
EWASC14TZBSD2	22,0	39,0	63,6	70,4	272,1	201,8
EWASC15TZBSD2	22,0	39,0	68,0	45,9	258,9	213,0
EWASH16TZBSD2	30,0	53,0	76,6	55,0	307,9	252,9
EWASH17TZBSD2	N/A					
EWASH18TZBSD2	N/A					
EWASH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D SS | Silver Efficiency | Single Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZSSD1	5,5	10,4	13,6	17,2	213,4	196,2
EWAS325TZSSD1	5,5	10,4	15,7	18,4	193,2	174,8
EWAS380TZSSD1	7,5	14,1	17,9	37,9	217,2	179,3
EWAS430TZSSD1	9,2	17,4	20,3	48,3	257,9	209,7
EWAS495TZSSD1	9,2	17,4	23,3	34,8	243,1	208,3
EWAS535TZSSD1	9,2	17,4	25,3	40,3	231,9	191,6
EWAS595TZSSD1	11,0	20,2	27,9	48,9	250,2	201,4
EWAS650TZSSD1	15,0	26,6	30,3	56,6	276,6	220,0
EWAS520TZSSD2	9,2	17,4	24,9	31,7	234,0	202,3
EWAS555TZSSD2	9,2	17,4	26,4	35,3	225,2	189,9
EWAS585TZSSD2	11,0	20,2	27,8	38,6	251,0	212,4
EWAS645TZSSD2	11,0	20,2	30,8	34,1	230,5	196,4
EWAS705TZSSD2	15,0	26,6	33,5	39,8	268,0	228,2
EWAS760TZSSD2	15,0	26,6	36,2	50,3	260,1	209,7
EWAS835TZSSD2	18,5	33,0	39,7	59,1	296,6	237,5
EWAS960TZSSD2	18,5	33,0	45,3	45,0	276,5	231,5
EWASC10TZSSD2	18,5	33,0	47,8	48,9	266,2	217,3
EWASH10TZSSD2	18,5	33,0	49,8	47,4	257,5	210,2
EWASH11TZSSD2	22,0	42,2	54,8	55,2	292,1	236,9
EWASH12TZSSD2	22,0	42,2	60,5	64,1	263,5	199,4
EWASH13TZSSD2	22,0	39,0	64,8	72,7	268,7	195,9
EWASH14TZSSD2	22,0	39,0	69,9	47,9	252,7	204,7
EWASH15TZSSD2	22,0	39,0	73,5	51,9	239,9	188,0
EWASH16TZSSD2	30,0	53,0	78,1	56,8	302,3	245,5
EWASH17TZSSD2	N/A					
EWASH18TZSSD2	N/A					
EWASH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D XS|Gold Efficiency, standard sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS295TZXSD1	5,5	10,4	14,0	18,1	209,8	191,7
EWAS345TZXSD1	5,5	10,4	16,5	20,1	185,2	165,2
EWAS380TZXSD1	7,5	14,1	18,0	23,8	215,9	192,1
EWAS440TZXSD1	7,5	14,1	20,8	28,1	185,0	156,9
EWAS515TZXSD1	9,2	17,4	24,2	37,2	238,1	200,9
EWAS565TZXSD1	9,2	17,4	26,7	26,8	223,3	196,5
EWAS635TZXSD1	11,0	20,2	29,9	33,3	236,8	203,5
EWAS705TZXSD1	15,0	26,6	33,2	40,1	268,8	228,7
EWAS760TZXSD1	15,0	26,6	35,7	46,3	261,4	215,1
EWAS525TZXSD2	9,2	17,4	25,0	39,5	233,4	193,9
EWAS565TZXSD2	11,0	20,2	26,7	26,8	258,0	231,2
EWAS610TZXSD2	11,0	20,2	29,1	31,4	242,3	210,9
EWAS670TZXSD2	11,0	20,2	31,8	36,1	223,3	187,1
EWAS725TZXSD2	15,0	26,6	34,3	38,1	265,6	227,6
EWAS805TZXSD2	15,0	26,6	37,4	33,5	256,1	222,6
EWAS880TZXSD2	15,0	26,6	41,6	39,5	241,5	202,0
EWAS950TZXSD2	18,5	33,0	44,9	44,4	277,9	233,4
EWASC10TZXSD2	18,5	33,0	47,1	47,9	268,9	221,0
EWASH10TZXSD2	18,5	33,0	50,2	52,9	255,5	202,7
EWASH11TZXSD2	18,5	33,0	53,5	53,2	239,9	186,7
EWASC12TZXSD2	22,0	42,2	56,4	57,9	284,3	226,4
EWASH12TZXSD2	22,0	42,2	62,0	39,9	255,4	215,5
EWASH13TZXSD2	22,0	39,0	64,1	42,0	270,7	228,7
EWASH14TZXSD2	22,0	39,0	68,8	46,8	256,3	209,5
EWASH15TZXSD2	22,0	39,0	74,0	52,4	238,4	186,1
EWASH16TZXSD2	30,0	53,0	78,4	57,3	301,0	243,7
EWASH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D PS|Platinum Efficiency, standard sound|Single Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZPSD1	5,5	10,4	13,7	14,2	212,2	198,1
EWAS330TZPSD1	5,5	10,4	15,9	18,8	191,2	172,4
EWAS370TZPSD1	7,5	14,1	17,7	23,0	219,0	196,1
EWAS405TZPSD1	7,5	14,1	19,3	24,7	201,9	177,2
EWAS450TZPSD1	7,5	14,1	21,5	18,2	223,4	205,2
EWAS490TZPSD1	7,5	14,1	23,3	21,0	213,8	192,8
EWAS530TZPSD2	9,2	17,4	25,4	40,5	231,4	190,9
EWAS575TZPSD2	11,0	20,2	27,4	46,2	254,0	207,8
EWAS615TZPSD2	11,0	20,2	29,6	32,1	239,0	206,9
EWAS675TZPSD2	11,0	20,2	32,3	37,3	219,2	181,9
EWAS735TZPSD2	15,0	26,6	35,0	39,3	263,8	224,5
EWAS810TZPSD2	15,0	26,6	38,6	35,2	252,1	216,9
EWAS890TZPSD2	15,0	26,6	42,2	40,3	239,6	199,3
EWAS960TZPSD2	18,5	33,0	45,5	45,3	275,5	230,2
EWASC10TZPSD2	18,5	33,0	47,7	48,9	266,3	217,4
EWASH10TZPSD2	18,5	33,0	50,9	54,2	252,3	198,1
EWASH11TZPSD2	18,5	33,0	53,0	58,1	242,6	184,5
EWASC12TZPSD2	22,0	42,2	57,1	59,0	281,0	222,0
EWASH12TZPSD2	18,5	32,5	61,4	39,4	227,1	187,7
EWASH13TZPSD2	22,0	39,0	65,0	42,9	268,1	225,2
EWASH14TZPSD2	22,0	39,0	68,8	46,8	256,1	209,3
EWASH15TZPSD2	22,0	39,0	74,0	52,5	238,2	185,8

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.7 EWAH TZ-D – Dual Pump Low Lift

EWAH TZ-D BS | Blue Efficiency | Dual Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH235TZBSD1	3,0	6,3	11,2	12,0	166,0	154,0
EWAH255TZBSD1	3,0	6,3	12,2	13,9	153,9	139,9
EWAH300TZBSD1	3,0	6,3	14,4	15,5	116,1	100,6
EWAH350TZBSD1	4,0	7,8	17,2	35,1	134,9	99,8
EWAH400TZBSD1	5,5	10,4	19,0	42,5	176,4	134,0
EWAH420TZBSD1	5,5	10,4	19,9	46,3	166,4	120,1
EWAH455TZBSD1	5,5	10,4	21,4	53,1	147,9	94,9
EWAH505TZBSD1	7,5	14,1	23,9	36,2	170,5	134,3
EWAH545TZBSD1	7,5	14,1	25,6	41,4	185,2	143,8
EWAH400TZBSD2	5,5	10,4	19,0	42,5	176,4	133,9
EWAH425TZBSD2	5,5	10,4	20,3	32,3	161,9	129,6
EWAH485TZBSD2	7,5	14,1	23,3	34,9	177,9	143,0
EWAH545TZBSD2	5,5	10,5	25,6	41,5	120,7	79,2
EWAH590TZBSD2	7,5	14,1	27,5	46,0	170,9	124,9
EWAH635TZBSD2	7,5	14,1	30,2	44,3	147,3	103,0
EWAH745TZBSD2	11,0	20,2	35,4	48,8	187,2	138,4
EWAH785TZBSD2	11,0	20,2	37,5	53,9	180,3	126,4
EWAH845TZBSD2	11,0	20,0	40,2	55,0	173,4	118,4
EWAH900TZBSD2	11,0	20,0	42,9	62,1	165,8	103,7
EWAH985TZBSD2	11,0	20,0	46,9	59,0	153,4	94,3
EWAHC11TZBSD2	11,0	20,0	52,7	44,8	133,8	89,0
EWAHH11TZBSD2	15,0	26,5	56,1	49,4	175,0	125,6
EWAHC13TZBSD2	15,0	26,5	62,7	40,2	148,3	108,1
EWAHH13TZBSD2	15,0	26,5	66,1	43,6	133,2	89,6
EWAHH14TZBSD2	18,5	32,5	70,3	48,4	155,1	106,7
EWAHC15TZBSD2	18,5	32,5	73,2	51,8	141,2	89,4
EWAHH15TZBSD2	22,0	39,0	75,6	54,6	183,2	128,6

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D SS | Silver Efficiency | Dual Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH240TZSSD1	3,0	6,3	11,6	12,6	161,9	149,3
EWAH265TZSSD1	3,0	6,3	12,6	14,9	128,8	113,9
EWAH295TZSSD1	3,0	6,3	14,1	15,0	118,0	103,0
EWAH370TZSSD1	4,0	7,8	17,5	36,4	131,6	95,2
EWAH415TZSSD1	5,5	10,4	19,5	44,6	171,0	126,4
EWAH450TZSSD1	5,5	10,4	21,3	29,4	149,1	119,7
EWAH490TZSSD1	7,5	14,1	23,2	34,3	178,9	144,5
EWAH540TZSSD1	7,5	14,1	25,5	40,9	186,6	145,7
EWAH400TZSSD2	5,5	10,4	19,2	29,5	174,5	144,9
EWAH470TZSSD2	5,5	10,4	22,4	38,4	135,5	97,1
EWAH535TZSSD2	7,5	14,1	24,3	37,5	165,4	127,8
EWAH595TZSSD2	7,5	14,1	28,3	39,2	164,5	125,3
EWAH630TZSSD2	7,5	14,1	29,9	43,5	150,2	106,7
EWAH690TZSSD2	11,0	20,2	33,2	43,4	194,0	150,6
EWAH740TZSSD2	11,0	20,2	35,4	48,7	187,4	138,7
EWAH795TZSSD2	11,0	20,2	37,9	55,0	178,9	123,9
EWAH855TZSSD2	11,0	20,0	40,8	56,8	171,9	115,1
EWAH910TZSSD2	11,0	20,0	43,4	63,4	164,3	101,0
EWAH980TZSSD2	15,0	26,5	46,9	72,2	206,8	134,6
EWAHC10TZSSD2	15,0	26,5	49,8	65,3	197,7	132,4
EWAHC11TZSSD2	15,0	26,5	53,1	45,3	186,4	141,1
EWAHC12TZSSD2	15,0	26,5	57,7	51,4	168,8	117,5
EWAHH12TZSSD2	15,0	26,5	63,5	41,0	144,9	103,9
EWAHH13TZSSD2	15,0	26,5	67,0	44,7	128,9	84,2
EWAHC14TZSSD2	18,5	32,5	71,1	49,4	151,1	101,7
EWAHC15TZSSD2	18,5	32,5	73,5	52,2	139,6	87,4
EWAHH15TZSSD2	22,0	39,0	76,6	55,7	178,1	122,4

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XS|Gold Efficiency, standard sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXSD1	2,2	4,6	10,5	10,5	125,2	114,7
EWAH230TZXSD1	3,0	6,3	11,1	11,7	138,9	127,1
EWAH275TZXSD1	3,0	6,3	13,1	13,0	125,5	112,5
EWAH300TZXSD1	3,0	6,3	14,3	15,3	116,9	101,6
EWAH350TZXSD1	4,0	7,8	16,6	33,2	140,3	107,2
EWAH400TZXSD1	5,5	10,4	19,0	42,3	177,0	134,7
EWAH470TZXSD1	5,5	10,4	22,2	31,8	137,2	105,4
EWAH515TZXSD1	5,5	10,5	24,1	36,8	133,7	96,9
EWAH540TZXSD1	5,5	10,5	25,5	24,6	121,9	97,3
EWAH620TZXSD1	7,5	14,1	29,4	32,1	154,4	122,2
EWAH465TZXSD2	5,5	10,4	22,5	38,8	133,6	94,8
EWAH545TZXSD2	7,5	14,1	25,9	34,4	183,0	148,6
EWAH600TZXSD2	7,5	14,1	28,7	30,8	160,4	129,6
EWAH645TZXSD2	7,5	14,1	30,6	34,1	143,5	109,4
EWAH700TZXSD2	11,0	20,2	33,3	39,6	193,9	154,3
EWAH750TZXSD2	11,0	20,2	35,9	47,0	185,7	138,7
EWAH790TZXSD2	11,0	20,2	37,6	50,5	179,9	129,4
EWAH840TZXSD2	11,0	20,0	40,1	55,2	173,7	118,4
EWAH900TZXSD2	11,0	20,0	42,8	50,8	166,1	115,2
EWAH975TZXSD2	11,0	20,0	46,4	57,8	155,2	97,4
EWAHH10TZXSD2	11,0	20,0	51,6	29,9	137,6	107,7
EWAHH11TZXSD2	15,0	26,5	56,5	49,5	173,8	124,3
EWAHH12TZXSD2	15,0	26,5	60,8	55,9	156,4	100,5
EWAHH13TZXSD2	15,0	26,5	65,9	43,4	133,9	90,5

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XR|Gold Efficiency, reduced sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXRD1	2,2	4,6	10,3	10,2	127,0	116,8
EWAH230TZXRD1	3,0	6,3	10,9	11,3	140,0	128,7
EWAH275TZXRD1	3,0	6,3	13,0	12,7	126,6	114,0
EWAH300TZXRD1	3,0	6,3	14,1	14,9	118,4	103,6
EWAH350TZXRD1	4,0	7,8	16,5	32,5	141,9	109,4
EWAH400TZXRD1	5,5	10,4	18,8	41,5	179,1	137,6
EWAH470TZXRD1	5,5	10,4	22,0	31,2	140,1	108,9
EWAH515TZXRD1	5,5	10,5	23,7	35,9	136,1	100,2
EWAH540TZXRD1	5,5	10,5	25,2	24,0	124,5	100,5
EWAH620TZXRD1	7,5	14,1	29,0	31,2	158,5	127,3
EWAH465TZXRD2	5,5	10,4	22,3	38,1	136,5	98,4
EWAH545TZXRD2	7,5	14,1	25,6	33,7	185,2	151,5
EWAH600TZXRD2	7,5	14,1	28,3	30,1	163,7	133,6
EWAH645TZXRD2	7,5	14,1	30,2	33,2	147,5	114,3
EWAH700TZXRD2	11,0	20,2	32,8	38,6	195,3	156,7
EWAH750TZXRD2	11,0	20,2	35,5	46,1	187,1	141,0
EWAH790TZXRD2	11,0	20,2	37,2	49,8	181,2	131,5
EWAH840TZXRD2	11,0	20,0	39,7	54,9	174,9	119,9
EWAH900TZXRD2	11,0	20,0	42,3	49,8	167,7	117,8
EWAH975TZXRD2	11,0	20,0	45,8	56,5	157,0	100,5
EWAHH10TZXRD2	11,0	20,0	50,8	29,2	140,3	111,0
EWAHH11TZXRD2	15,0	26,5	55,6	48,7	176,9	128,1
EWAHH12TZXRD2	15,0	26,5	59,9	54,6	160,0	105,4
EWAHH13TZXRD2	15,0	26,5	65,0	42,4	138,2	95,8

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PS|Platinum Efficiency, standard sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPSD1	2,2	4,6	10,8	11,2	121,4	110,1
EWAH265TZPSD1	3,0	6,3	12,7	12,2	128,3	116,1
EWAH295TZPSD1	3,0	6,3	14,0	14,7	119,0	104,2
EWAH340TZPSD1	4,0	7,8	16,1	17,4	145,9	128,5
EWAH395TZPSD1	5,5	10,4	18,7	23,0	179,8	156,9
EWAH490TZPSD1	5,5	10,5	23,1	20,5	140,8	120,3
EWAH545TZPSD1	5,5	10,5	25,8	25,2	119,2	94,0
EWAH500TZPSD2	5,5	10,5	24,0	22,9	134,3	111,4
EWAH540TZPSD2	5,5	10,5	25,7	25,6	120,2	94,6
EWAH615TZPSD2	7,5	14,1	29,2	34,4	156,2	121,8
EWAH645TZPSD2	7,5	14,1	30,6	36,8	143,9	107,1
EWAH700TZPSD2	11,0	20,2	33,3	41,8	193,9	152,0
EWAH770TZPSD2	11,0	20,2	36,6	39,8	183,2	143,4
EWAH845TZPSD2	11,0	20,0	40,4	59,3	172,8	113,5
EWAH900TZPSD2	11,0	20,0	43,0	65,2	165,5	100,3
EWAH960TZPSD2	11,0	20,0	45,7	36,2	157,3	121,1
EWAHC10TZPSD2	11,0	20,0	48,0	38,9	150,0	111,0
EWAHH10TZPSD2	11,0	20,0	50,9	29,3	139,9	110,5
EWAHH11TZPSD2	15,0	26,5	55,5	33,3	177,5	144,2
EWAHC12TZPSD2	15,0	26,5	58,0	35,7	167,8	132,1

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PR|Platinum Efficiency, reduced sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPRD1	2,2	4,6	10,7	11,0	122,5	111,4
EWAH265TZPRD1	3,0	6,3	12,6	12,1	129,0	116,9
EWAH295TZPRD1	3,0	6,3	13,9	14,5	119,9	105,4
EWAH340TZPRD1	4,0	7,8	15,9	17,1	147,1	130,0
EWAH395TZPRD1	5,5	10,4	18,6	22,6	181,3	158,7
EWAH490TZPRD1	5,5	10,5	22,9	20,3	142,1	121,9
EWAH545TZPRD1	5,5	10,5	25,6	24,8	121,2	96,4
EWAH500TZPRD2	5,5	10,5	23,7	22,5	136,2	113,7
EWAH540TZPRD2	5,5	10,5	25,4	25,2	122,3	97,1
EWAH615TZPRD2	7,5	14,1	28,9	33,8	159,4	125,6
EWAH645TZPRD2	7,5	14,1	30,2	36,2	147,3	111,2
EWAH700TZPRD2	11,0	20,2	32,9	41,1	195,0	154,0
EWAH770TZPRD2	11,0	20,2	36,3	39,2	184,5	145,2
EWAH845TZPRD2	11,0	20,0	40,1	58,5	173,8	115,3
EWAH900TZPRD2	11,0	20,0	42,6	64,2	166,8	102,5
EWAH960TZPRD2	11,0	20,0	45,3	35,7	158,6	122,9
EWAHC10TZPRD2	11,0	20,0	47,4	38,3	151,7	113,4
EWAHH10TZPRD2	11,0	20,0	50,3	28,8	142,0	113,1
EWAHH11TZPRD2	15,0	26,5	54,8	32,8	179,9	147,2
EWAHC12TZPRD2	15,0	26,5	57,4	35,1	170,1	135,0

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.8 EWAD TZ-D – Dual Pump Low Lift

EWAD TZ-D BS | Blue Efficiency | Dual Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD275TZBSD1	3,0	6,3	13,1	16,03	125,6	109,5
EWAD320TZBSD1	4,0	7,8	15,1	21,01	154,5	133,5
EWAD345TZBSD1	4,0	7,8	16,5	24,86	141,4	116,6
EWAD400TZBSD1	5,5	10,4	20,0	46,6	165,5	118,9
EWAD470TZBSD1	7,5	14,1	22,3	57,2	189,3	132,1
EWAD525TZBSD1	7,5	14,1	24,8	39,1	191,1	152,0
EWAD580TZBSD1	7,5	14,1	27,4	47,2	171,4	124,2
EWAD625TZBSD1	7,5	14,1	29,7	54,5	152,0	97,5
EWAD510TZBSD2	7,5	14,1	24,5	30,7	162,9	132,3
EWAD545TZBSD2	7,5	14,1	25,9	34,2	183,0	148,9
EWAD570TZBSD2	7,5	14,1	27,3	37,5	172,0	134,5
EWAD630TZBSD2	7,5	14,1	20,3	48,3	219,4	171,2
EWAD670TZBSD2	7,5	14,1	32,1	37,0	128,8	91,8
EWAD755TZBSD2	11,0	20,2	35,9	49,8	190,2	140,5
EWAD830TZBSD2	11,0	20,2	39,4	58,2	173,8	115,6
EWAD915TZBSD2	11,0	20,0	43,7	42,6	163,3	120,7
EWADC10TZBSD2	11,0	20,0	47,6	48,7	151,2	102,5
EWADH10TZBSD2	15,0	26,5	52,1	50,9	189,8	138,8
EWADH11TZBSD2	15,0	26,5	55,7	56,7	176,7	120,0
EWADC12TZBSD2	15,0	26,5	59,0	62,3	163,7	101,5
EWADC13TZBSD2	18,5	32,5	63,5	70,2	185,1	114,9
EWADC14TZBSD2	18,5	32,5	67,0	77,1	170,1	93,0
EWADC15TZBSD2	18,5	32,5	73,2	51,5	141,3	89,8
EWADH16TZBSD2	22,0	39,0	79,4	58,5	162,9	104,4
EWADH17TZBSD2	N/A					
EWADH18TZBSD2	N/A					
EWADH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D SS | Silver Efficiency | Dual Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZSSD1	3,0	6,3	13,5	17,0	122,6	105,5
EWAD325TZSSD1	4,0	7,8	15,6	18,2	150,0	131,8
EWAD380TZSSD1	4,0	7,8	17,2	21,8	134,7	112,9
EWAD430TZSSD1	5,5	10,4	20,4	48,4	160,9	112,5
EWAD495TZSSD1	7,5	14,1	23,4	35,2	175,9	140,7
EWAD535TZSSD1	5,5	10,5	25,3	40,4	123,4	83,0
EWAD595TZSSD1	7,5	14,1	28,1	49,6	165,4	115,9
EWAD650TZSSD1	7,5	14,1	30,6	57,8	143,3	85,5
EWAD520TZSSD2	5,5	10,5	24,9	31,7	126,8	95,0
EWAD555TZSSD2	7,5	14,1	26,5	35,5	178,6	143,1
EWAD585TZSSD2	7,5	14,1	28,0	39,0	166,8	127,7
EWAD645TZSSD2	7,5	14,1	30,8	34,2	141,5	107,3
EWAD705TZSSD2	11,0	20,2	33,7	40,2	192,6	152,5
EWAD760TZSSD2	11,0	20,2	36,3	50,6	184,5	133,9
EWAD835TZSSD2	11,0	20,2	40,0	59,8	171,7	111,9
EWAD960TZSSD2	11,0	20,0	45,8	45,8	157,0	111,2
EWADC10TZSSD2	11,0	20,0	48,5	49,7	148,2	98,5
EWADH10TZSSD2	11,0	20,0	50,7	48,9	140,6	91,7
EWADH11TZSSD2	15,0	26,5	55,7	56,7	176,7	120,0
EWADH12TZSSD2	15,0	26,5	61,1	65,3	155,2	89,9
EWADH13TZSSD2	18,5	32,5	65,4	73,9	177,2	103,2
EWADH14TZSSD2	18,5	32,5	70,6	48,8	153,5	104,7
EWADH15TZSSD2	18,5	32,5	74,5	52,9	134,9	81,9
EWADH16TZSSD2	22,0	39,0	79,4	58,5	162,9	104,4
EWADH17TZSSD2	N/A					
EWADH18TZSSD2	N/A					
EWADH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XS|Gold Efficiency, standard sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXSD1	3,0	6,3	14,1	18,2	118.7	100.5
EWAD345TZXSD1	4,0	7,8	16,4	20,0	142.3	122.3
EWAD380TZXSD1	4,0	7,8	18,0	23,9	125.8	101.9
EWAD440TZXSD1	5,5	10,4	20,7	28,0	156.3	128.3
EWAD515TZXSD1	7,5	14,1	24,2	37,4	165.7	128.3
EWAD565TZXSD1	5,5	10,5	26,7	26,8	111.1	84.3
EWAD635TZXSD1	7,5	14,1	30,0	33,5	149.1	115.6
EWAD705TZXSD1	11,0	20,2	33,4	40,7	193.4	152.6
EWAD760TZXSD1	11,0	20,2	36,1	47,3	184.9	137.7
EWAD525TZXSD2	5,5	10,5	25,0	39,5	125.9	86.4
EWAD565TZXSD2	7,5	14,1	27,0	45,1	174.8	129.7
EWAD610TZXSD2	7,5	14,1	29,1	31,4	157.0	125.6
EWAD670TZXSD2	7,5	14,1	31,9	36,4	131.6	95.2
EWAD725TZXSD2	11,0	20,2	34,5	38,5	190.0	151.5
EWAD805TZXSD2	11,0	20,2	38,3	34,7	177.7	143.0
EWAD880TZXSD2	11,0	20,0	41,9	39,8	168.8	129.0
EWAD950TZXSD2	11,0	20,0	45,3	45,0	158.6	113.6
EWADC10TZXSD2	11,0	20,0	47,4	48,3	151.9	103.6
EWADH10TZXSD2	11,0	20,0	50,6	53,7	140.9	87.2
EWADH11TZXSD2	15,0	26,5	53,8	53,7	183.5	129.8
EWADC12TZXSD2	15,0	26,5	56,9	58,8	171.9	113.1
EWADH12TZXSD2	15,0	26,5	61,3	39,3	154.2	114.9
EWADH13TZXSD2	15,0	26,5	64,8	42,7	139.2	96.5
EWADH14TZXSD2	18,5	32,5	69,3	47,4	159.6	112.3
EWADH15TZXSD2	18,5	32,5	74,7	53,2	133.6	80.4
EWADH16TZXSD2	22,0	39,0	79,7	58,9	161.2	102.3
EWADH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XR|Gold Efficiency, reduced sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXRD1	3,0	6,3	13,9	17,8	120,0	102,2
EWAD345TZXRD1	4,0	7,8	16,3	19,6	144,0	124,3
EWAD380TZXRD1	4,0	7,8	17,8	23,3	128,1	104,8
EWAD440TZXRD1	5,5	10,4	20,6	27,5	158,5	131,0
EWAD515TZXRD1	7,5	14,1	24,0	36,7	169,1	132,5
EWAD565TZXRD1	5,5	10,5	26,5	26,5	113,3	86,7
EWAD635TZXRD1	7,5	14,1	29,7	32,9	152,0	119,2
EWAD705TZXRD1	11,0	20,2	33,0	39,7	194,7	155,0
EWAD760TZXRD1	11,0	20,2	35,6	45,9	186,8	140,9
EWAD525TZXRD2	5,5	10,5	24,7	38,7	128,1	89,4
EWAD565TZXRD2	7,5	14,1	26,7	44,3	177,2	132,9
EWAD610TZXRD2	7,5	14,1	26,8	30,9	176,2	145,3
EWAD670TZXRD2	7,5	14,1	31,5	35,6	135,1	99,5
EWAD725TZXRD2	11,0	20,2	34,1	37,6	191,3	153,7
EWAD805TZXRD2	11,0	20,2	37,8	34,1	179,3	145,2
EWAD880TZXRD2	11,0	20,0	41,4	39,1	170,1	131,0
EWAD950TZXRD2	11,0	20,0	44,7	44,1	160,3	116,2
EWADC10TZXRD2	11,0	20,0	46,9	47,5	153,6	106,1
EWADH10TZXRD2	11,0	20,0	50,0	52,5	143,1	90,6
EWADH11TZXRD2	15,0	26,5	53,3	52,8	185,6	132,9
EWADC12TZXRD2	15,0	26,5	56,2	57,6	174,6	117,0
EWADH12TZXRD2	15,0	26,5	60,5	38,5	157,7	119,3
EWADH13TZXRD2	15,0	26,5	63,9	41,8	143,0	101,2
EWADH14TZXRD2	18,5	32,5	68,4	46,4	163,9	117,5
EWADH15TZXRD2	18,5	32,5	73,6	51,9	139,4	87,5
EWADH16TZXRD2	22,0	39,0	78,3	57,1	169,0	111,9
EWADH17TZXRD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PS|Platinum Efficiency, standard sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPSD1	3,0	6,3	13,6	14,0	121,8	107,8
EWAD330TZPSD1	4,0	7,8	15,8	18,5	148,6	130,1
EWAD370TZPSD1	4,0	7,8	17,6	22,7	130,9	108,2
EWAD405TZPSD1	5,5	10,5	19,2	24,3	167,2	143,0
EWAD450TZPSD1	5,5	10,5	21,3	18,0	153,6	135,6
EWAD490TZPSD1	5,5	10,5	23,2	20,9	140,3	119,5
EWAD530TZPSD2	5,5	10,5	25,3	40,2	123,9	83,7
EWAD575TZPSD2	7,5	14,1	27,3	46,0	172,5	126,5
EWAD615TZPSD2	7,5	14,1	29,5	31,9	154,0	122,1
EWAD675TZPSD2	11,0	20,2	32,2	27,2	196,8	169,7
EWAD735TZPSD2	11,0	20,2	35,0	39,3	188,6	149,3
EWAD810TZPSD2	11,0	20,2	38,6	35,2	176,5	141,3
EWAD890TZPSD2	11,0	20,0	42,2	40,4	167,7	127,3
EWAD960TZPSD2	11,0	20,0	45,7	45,7	157,3	111,6
EWADC10TZPSD2	11,0	20,0	47,8	49,0	150,5	101,5
EWADH10TZPSD2	15,0	26,5	51,1	54,2	193,1	138,9
EWADH11TZPSD2	15,0	26,5	54,2	54,3	182,1	127,8
EWADC12TZPSD2	15,0	26,5	57,4	59,5	170,2	110,7
EWADH12TZPSD2	15,0	26,5	61,9	39,8	151,8	112,0
EWADH13TZPSD2	15,0	26,5	65,4	43,3	136,4	93,1
EWADH14TZPSD2	18,5	32,5	69,4	47,4	159,5	112,1
EWADH15TZPSD2	18,5	32,5	74,8	53,3	133,4	80,2

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PR|Platinum Efficiency, reduced sound| Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPRD1	3,0	6,3	13,5	13,8	122,6	108,7
EWAD330TZPRD1	4,0	7,8	15,7	18,3	149,5	131,2
EWAD370TZPRD1	4,0	7,8	17,4	22,3	132,4	110,1
EWAD405TZPRD1	5,5	10,5	19,0	24,0	168,0	144,0
EWAD450TZPRD1	5,5	10,5	21,2	17,4	154,6	137,2
EWAD490TZPRD1	5,5	10,5	23,0	20,6	141,6	121,0
EWAD530TZPRD2	5,5	10,5	25,0	39,6	125,8	86,2
EWAD575TZPRD2	7,5	14,1	27,0	45,2	174,6	129,4
EWAD615TZPRD2	7,5	14,1	29,2	31,5	156,2	124,7
EWAD675TZPRD2	11,0	20,2	32,0	36,5	197,7	161,1
EWAD735TZPRD2	11,0	20,2	34,6	38,6	189,7	151,1
EWAD810TZPRD2	11,0	20,2	38,2	34,7	177,8	143,2
EWAD890TZPRD2	11,0	20,0	41,8	39,8	168,9	129,2
EWAD960TZPRD2	11,0	20,0	45,2	44,9	158,8	113,9
EWADC10TZPRD2	11,0	20,0	47,4	48,3	152,0	103,7
EWADH10TZPRD2	15,0	26,5	50,6	53,6	194,8	141,2
EWADH11TZPRD2	15,0	26,5	53,7	53,5	184,0	130,5
EWADC12TZPRD2	15,0	26,5	56,8	58,5	172,6	114,1
EWADH12TZPRD2	15,0	26,5	61,1	39,1	155,1	116,0
EWADH13TZPRD2	15,0	26,5	64,7	42,6	139,8	97,2
EWADH14TZPRD2	18,5	32,5	68,4	46,4	163,7	117,2
EWADH15TZPRD2	18,5	32,5	73,6	52,0	139,1	87,1

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.9 EWAS TZ-D – Dual Pump Low Lift

EWAS TZ-D BS | Blue Efficiency | Dual Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS275TZBSD1	3,0	6,3	12,35	24,59	130,8	106,2
EWAS320TZBSD1	4,0	7,8	14,82	20,21	157,1	136,9
EWAS345TZBSD1	4,0	7,8	16,13	23,76	145,2	121,5
EWAS400TZBSD1	5,5	10,4	19,36	43,95	172,6	128,6
EWAS470TZBSD1	7,5	14,1	21,53	53,55	197,7	144,2
EWAS525TZBSD1	7,5	14,1	24,11	37,11	196,2	159,1
EWAS580TZBSD1	7,5	14,1	26,47	44,18	178,9	134,7
EWAS625TZBSD1	7,5	14,1	28,49	50,7	162,5	111,8
EWAS755TZBSD2	11,0	20,2	35,01	47,68	199,1	151,4
EWAS830TZBSD2	11,0	20,2	38,16	54,77	178,1	123,3
EWAS915TZBSD2	11,0	20,0	42,17	40,28	167,9	127,6
EWASC10TZBSD2	11,0	20,0	46,82	47,43	153,7	106,3
EWASH10TZBSD2	15,0	26,5	50,06	47,83	196,7	148,8
EWASH11TZBSD2	15,0	26,5	53,72	53,52	183,9	130,4
EWASC12TZBSD2	15,0	26,5	57,09	59,02	171,3	112,3
EWASC13TZBSD2	18,5	32,5	60,32	63,76	198,1	134,3
EWASC14TZBSD2	18,5	32,5	63,62	70,35	184,7	114,4
EWASC15TZBSD2	18,5	32,5	67,95	45,93	165,9	120,0
EWASH16TZBSD2	22,0	39,0	76,59	54,95	178,0	123,1
EWASH17TZBSD2	N/A					
EWASH18TZBSD2	N/A					
EWASH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D SS | Silver Efficiency | Dual Pump Low Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZSSD1	3,0	6,3	13,59	17,15	122,1	105,0
EWAS325TZSSD1	4,0	7,8	15,71	18,4	149,2	130,8
EWAS380TZSSD1	4,0	7,8	17,85	37,89	127,7	89,8
EWAS430TZSSD1	5,5	10,4	20,33	48,26	161,3	113,0
EWAS495TZSSD1	7,5	14,1	23,25	34,78	177,9	143,1
EWAS535TZSSD1	5,5	10,5	25,26	40,31	123,9	83,5
EWAS595TZSSD1	7,5	14,1	27,93	48,89	167,2	118,3
EWAS650TZSSD1	7,5	14,1	30,3	56,62	146,4	89,8
EWAS520TZSSD2	5,5	10,5	24,9	31,69	126,8	95,1
EWAS555TZSSD2	7,5	14,1	26,42	35,3	179,3	144,0
EWAS585TZSSD2	7,5	14,1	27,81	38,61	168,2	129,6
EWAS645TZSSD2	7,5	14,1	30,77	34,14	142,0	107,9
EWAS705TZSSD2	11,0	20,2	33,5	39,79	193,1	153,4
EWAS760TZSSD2	11,0	20,2	36,16	50,34	184,8	134,5
EWAS835TZSSD2	11,0	20,2	39,72	59,1	172,5	113,4
EWAS960TZSSD2	11,0	20,0	45,25	44,95	158,7	113,7
EWASC10TZSSD2	11,0	20,0	47,75	48,92	150,7	101,8
EWASH10TZSSD2	11,0	20,0	49,75	47,35	144,0	96,6
EWASH11TZSSD2	15,0	26,5	54,77	55,2	180,1	124,9
EWASH12TZSSD2	15,0	26,5	60,49	64,09	157,7	93,6
EWASH13TZSSD2	18,5	32,5	64,8	72,71	179,7	107,0
EWASH14TZSSD2	18,5	32,5	69,86	47,94	157,1	109,2
EWASH15TZSSD2	18,5	32,5	73,54	51,92	139,4	87,5
EWASH16TZSSD2	22,0	39,0	78,08	56,83	170,0	113,2
EWASH17TZSSD2	N/A					
EWASH18TZSSD2	N/A					
EWASH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D XS|Gold Efficiency, standard sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS295TZXSD1	3,0	6,3	14	18,11	119,1	100,9
EWAS345TZXSD1	4,0	7,8	16,45	20,05	142,1	122,1
EWAS380TZXSD1	4,0	7,8	17,98	23,78	126,3	102,5
EWAS440TZXSD1	5,5	10,4	20,79	28,12	155,7	127,6
EWAS515TZXSD1	7,5	14,1	24,16	37,24	166,6	129,4
EWAS565TZXSD1	5,5	10,5	26,73	26,82	111,1	84,3
EWAS635TZXSD1	7,5	14,1	29,89	33,31	150,1	116,8
EWAS705TZXSD1	11,0	20,2	33,2	40,13	194,0	153,9
EWAS760TZXSD1	11,0	20,2	35,72	46,31	186,2	139,9
EWAS525TZXSD2	5,5	10,5	25,01	39,5	125,9	86,4
EWAS565TZXSD2	7,5	14,1	26,73	26,82	176,9	150,1
EWAS610TZXSD2	7,5	14,1	29,11	31,35	157,1	125,7
EWAS670TZXSD2	7,5	14,1	31,75	36,14	132,6	96,5
EWAS725TZXSD2	11,0	20,2	34	38,06	190,7	152,6
EWAS805TZXSD2	11,0	20,2	37,4	33,52	180,7	147,2
EWAS880TZXSD2	11,0	20,0	41,64	39,51	169,4	129,9
EWAS950TZXSD2	11,0	20,0	44,9	44,42	159,7	115,3
EWASC10TZXSD2	11,0	20,0	47,12	47,91	152,7	104,8
EWASH10TZXSD2	11,0	20,0	50,19	52,87	142,5	89,6
EWASH11TZXSD2	15,0	26,5	53,5	53,17	184,7	131,6
EWASC12TZXSD2	15,0	26,5	56,41	57,89	173,9	116,0
EWASH12TZXSD2	15,0	26,5	61,98	39,92	151,4	111,5
EWASH13TZXSD2	15,0	26,5	64,1	42,01	142,2	100,2
EWASH14TZXSD2	18,5	32,5	68,76	46,78	162,2	115,4
EWASH15TZXSD2	18,5	32,5	73,96	52,38	137,4	85,0
EWASH16TZXSD2	22,0	39,0	78,43	57,28	168,1	110,8
EWASH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D PS|Platinum Efficiency, standard sound|Dual Pump Low Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZPSD1	3,0	6,3	13,72	14,18	121,2	107,0
EWAS330TZPSD1	4,0	7,8	15,9	18,81	147,4	128,6
EWAS370TZPSD1	4,0	7,8	17,66	22,97	129,8	106,8
EWAS405TZPSD1	5,5	10,5	19,32	24,65	166,2	141,6
EWAS450TZPSD1	5,5	10,5	21,46	18,18	152,6	134,5
EWAS490TZPSD1	5,5	10,5	23,29	21,04	139,5	118,5
EWAS530TZPSD2	5,5	10,5	25,36	40,49	123,0	82,5
EWAS575TZPSD2	7,5	14,1	27	46,19	171,8	125,7
EWAS615TZPSD2	7,5	14,1	29,58	32,14	152,9	120,8
EWAS675TZPSD2	11,0	20,2	32,29	37,26	196,7	159,4
EWAS735TZPSD2	11,0	20,2	34,95	39,28	188,7	149,4
EWAS810TZPSD2	11,0	20,2	38,63	35,2	176,4	141,2
EWAS890TZPSD2	11,0	20,0	42,16	40,28	167,9	127,6
EWAS960TZPSD2	11,0	20,0	45,49	45,34	157,9	112,6
EWASC10TZPSD2	11,0	20,0	47,73	48,88	150,7	101,9
EWASH10TZPSD2	15,0	26,5	50,9	54,22	193,8	139,6
EWASH11TZPSD2	15,0	26,5	52,95	58,08	186,7	128,6
EWASC12TZPSD2	15,0	26,5	57,09	59,02	171,3	112,3
EWASH12TZPSD2	15,0	26,5	61,42	39,37	153,8	114,4
EWASH13TZPSD2	15,0	26,5	64,98	42,89	138,3	95,4
EWASH14TZPSD2	18,5	32,5	68,81	46,83	162,0	115,2
EWASH15TZPSD2	18,5	32,5	74,02	52,45	137,1	84,6

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.10 EWAH TZ-D – Dual Pump High Lift

EWAH TZ-D BS | Blue Efficiency | Dual Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH235TZBSD1	5,5	10,4	11,2	12,0	240,1	228,1
EWAH255TZBSD1	5,5	10,4	12,2	13,9	234,5	220,6
EWAH300TZBSD1	5,5	10,4	14,4	15,5	219,5	204,0
EWAH350TZBSD1	7,5	14,1	17,2	35,1	239,5	204,4
EWAH400TZBSD1	9,2	17,4	19,0	42,5	270,9	228,4
EWAH420TZBSD1	9,2	17,4	19,9	46,3	266,8	220,5
EWAH455TZBSD1	9,2	17,4	21,4	53,1	259,2	206,2
EWAH505TZBSD1	9,2	17,4	23,9	36,2	245,2	209,0
EWAH545TZBSD1	9,2	17,4	25,6	41,4	233,5	192,1
EWAH400TZBSD2	7,5	14,1	19,0	42,5	226,3	183,8
EWAH425TZBSD2	9,2	17,4	20,3	32,3	265,0	232,7
EWAH485TZBSD2	9,2	17,4	23,3	34,9	248,9	214,0
EWAH545TZBSD2	9,2	17,4	25,6	41,5	233,5	192,1
EWAH590TZBSD2	11,0	20,2	27,5	46,0	261,3	215,4
EWAH635TZBSD2	11,0	20,2	30,2	44,3	241,1	196,8
EWAH745TZBSD2	15,0	26,6	35,4	48,8	289,0	240,2
EWAH785TZBSD2	15,0	26,6	37,5	53,9	270,5	216,6
EWAH845TZBSD2	15,0	26,6	40,2	55,0	244,4	189,4
EWAH900TZBSD2	18,5	33,0	42,9	62,1	250,7	188,6
EWAH985TZBSD2	18,5	33,0	46,9	59,0	261,2	202,2
EWAHC11TZBSD2	22,0	42,2	52,7	44,8	279,6	234,8
EWAHH11TZBSD2	22,0	42,2	56,1	49,4	261,1	211,7
EWAHC13TZBSD2	22,0	39,0	62,7	40,2	243,7	203,5
EWAHH13TZBSD2	22,0	39,0	66,1	43,6	229,2	185,6
EWAHH14TZBSD2	30,0	53,0	70,3	48,4	292,2	243,8
EWAHC15TZBSD2	30,0	53,0	73,2	51,8	281,0	229,2
EWAHH15TZBSD2	30,0	53,0	75,6	54,6	271,2	216,6

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D SS | Silver Efficiency | Dual Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH240TZSSD1	5,5	10,4	11,6	12,6	238,2	225,5
EWAH265TZSSD1	5,5	10,4	12,6	14,9	231,7	216,8
EWAH295TZSSD1	5,5	10,4	14,1	15,0	221,4	206,4
EWAH370TZSSD1	7,5	14,1	17,5	36,4	236,8	200,4
EWAH415TZSSD1	9,2	17,4	19,5	44,6	268,7	224,1
EWAH450TZSSD1	9,2	17,4	21,3	29,4	259,7	230,3
EWAH490TZSSD1	9,2	17,4	23,2	34,3	249,3	215,0
EWAH540TZSSD1	9,2	17,4	25,5	40,9	234,8	193,9
EWAH400TZSSD2	7,5	14,1	19,2	29,5	225,4	195,9
EWAH470TZSSD2	9,2	17,4	22,4	38,4	254,0	215,7
EWAH535TZSSD2	9,2	17,4	24,3	37,5	242,6	205,1
EWAH595TZSSD2	11,0	20,2	28,3	39,2	255,9	216,7
EWAH630TZSSD2	11,0	20,2	29,9	43,5	243,6	200,1
EWAH690TZSSD2	15,0	26,6	33,2	43,4	263,6	220,2
EWAH740TZSSD2	15,0	26,6	35,4	48,7	256,7	208,0
EWAH795TZSSD2	15,0	26,6	37,9	55,0	247,8	192,8
EWAH855TZSSD2	18,5	33,0	40,8	56,8	286,5	229,7
EWAH910TZSSD2	18,5	33,0	43,4	63,4	276,2	212,9
EWAH980TZSSD2	18,5	33,0	46,9	72,2	261,3	189,1
EWAHC10TZSSD2	22,0	42,2	49,8	65,3	293,9	228,6
EWAHC11TZSSD2	22,0	42,2	53,1	45,3	277,5	232,2
EWAHC12TZSSD2	22,0	39,0	57,7	51,4	263,1	211,8
EWAHH12TZSSD2	22,0	39,0	63,5	41,0	240,4	199,4
EWAHH13TZSSD2	22,0	39,0	67,0	44,7	225,0	180,3
EWAHC14TZSSD2	30,0	53,0	71,1	49,4	289,0	239,6
EWAHC15TZSSD2	30,0	53,0	73,5	52,2	279,7	227,6
EWAHH15TZSSD2	30,0	53,0	76,6	55,7	267,3	211,6

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XS|Gold Efficiency, standard sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXSD1	4,0	7,8	10,5	10,5	210.1	199.6
EWAH230TZXSD1	4,0	7,8	11,1	11,7	204.1	192.4
EWAH275TZXSD1	5,5	10,4	13,1	13,0	228.6	215.6
EWAH300TZXSD1	5,5	10,4	14,3	15,3	220.3	205.0
EWAH350TZXSD1	7,5	14,1	16,6	33,2	243.8	210.6
EWAH400TZXSD1	9,2	17,4	19,0	42,3	271.1	228.8
EWAH470TZXSD1	9,2	17,4	22,2	31,8	254.8	223.0
EWAH515TZXSD1	9,2	17,4	24,1	36,8	244.0	207.2
EWAH540TZXSD1	9,2	17,4	25,5	24,6	234.5	209.9
EWAH620TZXSD1	11,0	20,2	29,4	32,1	247.2	215.0
EWAH465TZXSD2	9,2	17,4	22,5	38,8	253.2	214.4
EWAH545TZXSD2	9,2	17,4	25,9	34,4	231.4	197.0
EWAH600TZXSD2	11,0	20,2	28,7	30,8	252.4	221.6
EWAH645TZXSD2	11,0	20,2	30,6	34,1	237.8	203.8
EWAH700TZXSD2	15,0	26,6	33,3	39,6	263.5	223.9
EWAH750TZXSD2	15,0	26,6	35,9	47,0	254.8	207.8
EWAH790TZXSD2	15,0	26,6	37,6	50,5	248.9	198.3
EWAH840TZXSD2	18,5	33,0	40,1	55,2	288.8	233.6
EWAH900TZXSD2	18,5	33,0	42,8	50,8	278.6	227.8
EWAH975TZXSD2	18,5	33,0	46,4	57,8	263.7	205.9
EWAHH10TZXSD2	18,5	32,5	51,6	29,9	229.4	199.5
EWAHH11TZXSD2	22,0	39,0	56,5	49,5	267.8	218.3
EWAHH12TZXSD2	22,0	39,0	60,8	55,9	251.4	195.5
EWAHH13TZXSD2	22,0	39,0	65,9	43,4	229.9	186.4

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D XR|Gold Efficiency, reduced sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH220TZXRD1	4,0	7,8	10,3	10,2	211,7	201,6
EWAH230TZXRD1	4,0	7,8	10,9	11,3	206,1	194,7
EWAH275TZXRD1	5,5	10,4	13,0	12,7	229,6	217,0
EWAH300TZXRD1	5,5	10,4	14,1	14,9	221,8	206,9
EWAH350TZXRD1	7,5	14,1	16,5	32,5	245,0	212,5
EWAH400TZXRD1	9,2	17,4	18,8	41,5	271,9	230,4
EWAH470TZXRD1	9,2	17,4	22,0	31,2	256,0	224,8
EWAH515TZXRD1	9,2	17,4	23,7	35,9	245,9	210,0
EWAH540TZXRD1	9,2	17,4	25,2	24,0	236,6	212,6
EWAH620TZXRD1	11,0	20,2	29,0	31,2	250,7	219,5
EWAH465TZXRD2	9,2	17,4	22,3	38,1	254,5	216,4
EWAH545TZXRD2	9,2	17,4	25,6	33,7	233,5	199,8
EWAH600TZXRD2	11,0	20,2	28,3	30,1	255,2	225,1
EWAH645TZXRD2	11,0	20,2	30,2	33,2	241,3	208,1
EWAH700TZXRD2	15,0	26,6	32,8	38,6	265,0	226,3
EWAH750TZXRD2	15,0	26,6	35,5	46,1	256,4	210,2
EWAH790TZXRD2	15,0	26,6	37,2	49,8	250,2	200,5
EWAH840TZXRD2	18,5	33,0	39,7	54,9	290,5	235,5
EWAH900TZXRD2	18,5	33,0	42,3	49,8	280,7	230,9
EWAH975TZXRD2	18,5	33,0	45,8	56,5	266,2	209,7
EWAHH10TZXRD2	18,5	32,5	50,8	29,2	231,8	202,6
EWAHH11TZXRD2	22,0	39,0	55,6	48,7	270,7	222,0
EWAHH12TZXRD2	22,0	39,0	59,9	54,6	254,8	200,2
EWAHH13TZXRD2	22,0	39,0	65,0	42,4	234,0	191,6

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PS|Platinum Efficiency, standard sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPSD1	4,0	7,8	10,8	11,2	206,6	195,3
EWAH265TZPSD1	5,5	10,4	12,7	12,2	231,2	219,0
EWAH295TZPSD1	5,5	10,4	14,0	14,7	222,3	207,6
EWAH340TZPSD1	5,5	10,4	16,1	17,4	205,7	188,4
EWAH395TZPSD1	7,5	14,1	18,7	23,0	226,2	203,3
EWAH490TZPSD1	9,2	17,4	23,1	20,5	249,6	229,1
EWAH545TZPSD1	9,2	17,4	25,8	25,2	232,3	207,2
EWAH500TZPSD2	9,2	17,4	24,0	22,9	244,5	221,6
EWAH540TZPSD2	9,2	17,4	25,7	25,6	233,2	207,6
EWAH615TZPSD2	11,0	20,2	29,2	34,4	248,8	214,4
EWAH645TZPSD2	11,0	20,2	30,6	36,8	238,2	201,3
EWAH700TZPSD2	15,0	26,6	33,3	41,8	263,5	221,6
EWAH770TZPSD2	15,0	26,6	36,6	39,8	252,3	212,5
EWAH845TZPSD2	18,5	33,0	40,4	59,3	287,7	228,4
EWAH900TZPSD2	18,5	33,0	43,0	65,2	277,8	212,6
EWAH960TZPSD2	18,5	33,0	45,7	36,2	266,6	230,4
EWAHC10TZPSD2	18,5	33,0	48,0	38,9	256,5	217,6
EWAHH10TZPSD2	18,5	32,5	50,9	29,3	231,5	202,1
EWAHH11TZPSD2	22,0	39,0	55,5	33,3	271,3	238,0
EWAHC12TZPSD2	22,0	39,0	58,0	35,7	262,1	226,4

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAH TZ-D PR|Platinum Efficiency, reduced sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAH225TZPRD1	4,0	7,8	10,7	11,0	207,6	196,6
EWAH265TZPRD1	5,5	10,4	12,6	12,1	231,8	219,8
EWAH295TZPRD1	5,5	10,4	13,9	14,5	223,2	208,7
EWAH340TZPRD1	5,5	10,4	15,9	17,1	206,9	189,8
EWAH395TZPRD1	7,5	14,1	18,6	22,6	227,5	204,8
EWAH490TZPRD1	9,2	17,4	22,9	20,3	250,7	230,4
EWAH545TZPRD1	9,2	17,4	25,6	24,8	233,9	209,2
EWAH500TZPRD2	9,2	17,4	23,7	22,5	246,0	223,5
EWAH540TZPRD2	9,2	17,4	25,4	25,2	234,9	209,7
EWAH615TZPRD2	11,0	20,2	28,9	33,8	251,5	217,7
EWAH645TZPRD2	11,0	20,2	30,2	36,2	241,1	205,0
EWAH700TZPRD2	15,0	26,6	32,9	41,1	264,7	223,7
EWAH770TZPRD2	15,0	26,6	36,3	39,2	253,6	214,4
EWAH845TZPRD2	18,5	33,0	40,1	58,5	289,1	230,6
EWAH900TZPRD2	18,5	33,0	42,6	64,2	279,5	215,3
EWAH960TZPRD2	18,5	33,0	45,3	35,7	268,4	232,7
EWAHC10TZPRD2	18,5	33,0	47,4	38,3	258,9	220,6
EWAHH10TZPRD2	18,5	32,5	50,3	28,8	233,4	204,6
EWAHH11TZPRD2	22,0	39,0	54,8	32,8	273,5	240,8
EWAHC12TZPRD2	22,0	39,0	57,4	35,1	264,3	229,2

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.11 EWAD TZ-D – Dual Pump High Lift

EWAD TZ-D BS | Blue Efficiency | Dual Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD275TZBSD1	5,5	10,4	13,1	16,0	228,6	212,6
EWAD320TZBSD1	7,5	14,1	15,1	21,0	242,6	221,6
EWAD345TZBSD1	7,5	14,1	16,5	24,9	237,4	212,5
EWAD400TZBSD1	9,2	17,4	20,0	46,6	266,5	219,8
EWAD470TZBSD1	9,2	17,4	22,3	57,2	254,5	197,2
EWAD525TZBSD1	9,2	17,4	24,8	39,1	238,9	199,8
EWAD580TZBSD1	11,0	20,2	27,4	47,2	261,8	214,6
EWAD625TZBSD1	11,0	20,2	29,7	54,5	245,2	190,7
EWAD510TZBSD2	9,2	17,4	24,5	30,7	241,4	210,8
EWAD545TZBSD2	9,2	17,4	25,9	34,2	231,5	197,3
EWAD570TZBSD2	11,0	20,2	27,3	37,5	262,3	224,8
EWAD630TZBSD2	11,0	20,2	20,3	48,3	302,2	253,9
EWAD670TZBSD2	11,0	20,2	32,1	37,0	225,1	188,2
EWAD755TZBSD2	15,0	26,6	35,9	49,8	254,8	205,0
EWAD830TZBSD2	15,0	26,6	39,4	58,2	242,5	184,4
EWAD915TZBSD2	18,5	33,0	43,7	42,6	274,8	232,2
EWADC10TZBSD2	18,5	33,0	47,6	48,7	258,2	209,5
EWADH10TZBSD2	22,0	39,0	52,1	50,9	282,6	231,7
EWADH11TZBSD2	22,0	39,0	55,7	56,7	270,5	213,9
EWADC12TZBSD2	22,0	39,0	59,0	62,3	258,3	196,1
EWADC13TZBSD2	30,0	53,0	63,5	70,2	316,1	245,9
EWADC14TZBSD2	30,0	53,0	67,0	77,1	304,1	227,0
EWADC15TZBSD2	30,0	53,0	73,2	51,5	281,1	229,6
EWADH16TZBSD2	N/A					
EWADH17TZBSD2	N/A					
EWADH18TZBSD2	N/A					
EWADH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D SS | Silver Efficiency | Dual Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZSSD1	5,5	10,4	13,5	17,0	225,8	208,8
EWAD325TZSSD1	7,5	14,1	15,6	18,2	240,8	222,6
EWAD380TZSSD1	7,5	14,1	17,2	21,8	234,6	212,8
EWAD430TZSSD1	9,2	17,4	20,4	48,4	264,6	216,2
EWAD495TZSSD1	9,2	17,4	23,4	35,2	247,9	212,7
EWAD535TZSSD1	9,2	17,4	25,3	40,4	235,7	195,3
EWAD595TZSSD1	11,0	20,2	28,1	49,6	256,7	207,1
EWAD650TZSSD1	15,0	26,6	30,6	57,8	271,4	213,6
EWAD520TZSSD2	9,2	17,4	24,9	31,7	238,4	206,7
EWAD555TZSSD2	9,2	17,4	26,5	35,5	227,4	191,9
EWAD585TZSSD2	11,0	20,2	28,0	39,0	257,8	218,8
EWAD645TZSSD2	11,0	20,2	30,8	34,2	236,2	201,9
EWAD705TZSSD2	15,0	26,6	33,7	40,2	262,2	222,0
EWAD760TZSSD2	15,0	26,6	36,3	50,6	253,6	203,0
EWAD835TZSSD2	18,5	33,0	40,0	59,8	289,4	229,7
EWAD960TZSSD2	18,5	33,0	45,8	45,8	266,1	220,3
EWADC10TZSSD2	18,5	33,0	48,5	49,7	254,0	204,3
EWADH10TZSSD2	22,0	39,0	50,7	48,9	286,9	238,1
EWADH11TZSSD2	22,0	39,0	55,7	56,7	270,5	213,8
EWADH12TZSSD2	22,0	39,0	61,1	65,3	250,2	184,9
EWADH13TZSSD2	30,0	53,0	65,4	73,9	309,8	235,8
EWADH14TZSSD2	30,0	53,0	70,6	48,8	290,8	242,1
EWADH15TZSSD2	30,0	53,0	74,5	52,9	275,9	223,0
EWADH16TZSSD2	N/A					
EWADH17TZSSD2	N/A					
EWADH18TZSSD2	N/A					
EWADH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XS|Gold Efficiency, standard sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXSD1	5,5	10,4	14,1	18,2	222,0	203,8
EWAD345TZXSD1	7,5	14,1	16,4	20,0	245,3	225,3
EWAD380TZXSD1	7,5	14,1	18,0	23,9	232,2	208,3
EWAD440TZXSD1	7,5	14,1	20,7	28,0	217,2	189,2
EWAD515TZXSD1	9,2	17,4	24,2	37,4	242,8	205,4
EWAD565TZXSD1	9,2	17,4	26,7	26,8	225,8	199,0
EWAD635TZXSD1	11,0	20,2	30,0	33,5	242,7	209,2
EWAD705TZXSD1	15,0	26,6	33,4	40,7	262,9	222,2
EWAD760TZXSD1	15,0	26,6	36,1	47,3	254,1	206,8
EWAD525TZXSD2	9,2	17,4	25,0	39,5	237,8	198,3
EWAD565TZXSD2	11,0	20,2	27,0	45,1	264,7	219,6
EWAD610TZXSD2	11,0	20,2	29,1	31,4	249,4	218,1
EWAD670TZXSD2	11,0	20,2	31,9	36,4	227,5	191,2
EWAD725TZXSD2	15,0	26,6	34,5	38,5	259,4	220,9
EWAD805TZXSD2	15,0	26,6	38,3	34,7	246,6	211,9
EWAD880TZXSD2	15,0	26,6	41,9	39,8	233,1	193,3
EWAD950TZXSD2	18,5	33,0	45,3	45,0	268,3	223,3
EWADC10TZXSD2	18,5	33,0	47,4	48,3	259,1	210,8
EWADH10TZXSD2	18,5	33,0	50,6	53,7	244,0	190,3
EWADH11TZXSD2	22,0	42,2	53,8	53,7	273,4	219,7
EWADC12TZXSD2	22,0	42,2	56,9	58,8	256,5	197,8
EWADH12TZXSD2	22,0	39,0	61,3	39,3	249,3	210,0
EWADH13TZXSD2	22,0	39,0	64,8	42,7	234,9	192,2
EWADH14TZXSD2	30,0	53,0	69,3	47,4	295,8	248,4
EWADH15TZXSD2	30,0	53,0	74,7	53,2	274,9	221,7
EWADH16TZXSD2	N/A					
EWADH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D XR|Gold Efficiency, reduced sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD295TZXRD1	5,5	10,4	13,9	17,8	223,3	205,5
EWAD345TZXRD1	7,5	14,1	16,3	19,6	246,6	227,0
EWAD380TZXRD1	7,5	14,1	17,8	23,3	234,1	210,8
EWAD440TZXRD1	7,5	14,1	20,6	27,5	218,2	190,7
EWAD515TZXRD1	9,2	17,4	24,0	36,7	244,5	207,8
EWAD565TZXRD1	9,2	17,4	26,5	26,5	227,5	201,0
EWAD635TZXRD1	11,0	20,2	29,7	32,9	245,2	212,3
EWAD705TZXRD1	15,0	26,6	33,0	39,7	264,3	224,6
EWAD760TZXRD1	15,0	26,6	35,6	45,9	256,0	210,1
EWAD525TZXRD2	9,2	17,4	24,7	38,7	239,5	200,8
EWAD565TZXRD2	11,0	20,2	26,7	44,3	266,7	222,4
EWAD610TZXRD2	11,0	20,2	26,8	30,9	265,8	235,0
EWAD670TZXRD2	11,0	20,2	31,5	35,6	230,6	195,0
EWAD725TZXRD2	15,0	26,6	34,1	37,6	260,8	223,2
EWAD805TZXRD2	15,0	26,6	37,8	34,1	248,2	214,1
EWAD880TZXRD2	15,0	26,6	41,4	39,1	235,0	195,8
EWAD950TZXRD2	18,5	33,0	44,7	44,1	270,7	226,6
EWADC10TZXRD2	18,5	33,0	46,9	47,5	261,5	214,0
EWADH10TZXRD2	18,5	33,0	50,0	52,5	247,0	194,4
EWADH11TZXRD2	22,0	42,2	53,3	52,8	276,5	223,7
EWADC12TZXRD2	22,0	42,2	56,2	57,6	260,4	202,8
EWADH12TZXRD2	22,0	39,0	60,5	38,5	252,6	214,2
EWADH13TZXRD2	22,0	39,0	63,9	41,8	238,6	196,8
EWADH14TZXRD2	30,0	53,0	68,4	46,4	299,2	252,8
EWADH15TZXRD2	30,0	53,0	73,6	51,9	279,6	227,6
EWADH16TZXRD2	N/A					
EWADH17TZXRD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PS|Platinum Efficiency, standard sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPSD1	5,5	10,4	13,6	14,0	225,1	211,0
EWAD330TZPSD1	7,5	14,1	15,8	18,5	250,3	231,7
EWAD370TZPSD1	7,5	14,1	17,6	22,7	236,3	213,6
EWAD405TZPSD1	7,5	14,1	19,2	24,3	222,0	197,8
EWAD450TZPSD1	7,5	14,1	21,3	18,0	213,9	195,9
EWAD490TZPSD1	9,2	17,4	23,2	20,9	249,3	228,4
EWAD530TZPSD2	9,2	17,4	25,3	40,2	236,1	195,9
EWAD575TZPSD2	11,0	20,2	27,3	46,0	262,7	216,8
EWAD615TZPSD2	11,0	20,2	29,5	31,9	246,9	214,9
EWAD675TZPSD2	11,0	20,2	32,2	27,2	224,3	197,1
EWAD735TZPSD2	15,0	26,6	35,0	39,3	257,9	218,6
EWAD810TZPSD2	15,0	26,6	38,6	35,2	245,3	210,1
EWAD890TZPSD2	15,0	26,6	42,2	40,4	231,7	191,3
EWAD960TZPSD2	18,5	33,0	45,7	45,7	266,5	220,9
EWADC10TZPSD2	18,5	33,0	47,8	49,0	257,2	208,2
EWADH10TZPSD2	22,0	42,2	51,1	54,2	287,3	233,1
EWADH11TZPSD2	22,0	42,2	54,2	54,3	271,4	217,1
EWADC12TZPSD2	22,0	42,2	57,4	59,5	254,0	194,5
EWADH12TZPSD2	22,0	39,0	61,9	39,8	247,0	207,2
EWADH13TZPSD2	22,0	39,0	65,4	43,3	232,2	188,9
EWADH14TZPSD2	30,0	53,0	69,4	47,4	295,6	248,2
EWADH15TZPSD2	30,0	53,0	74,8	53,3	274,8	221,5

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAD TZ-D PR|Platinum Efficiency, reduced sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAD285TZPRD1	5,5	10,4	13,5	13,8	225,8	212,0
EWAD330TZPRD1	7,5	14,1	15,7	18,3	251,0	232,7
EWAD370TZPRD1	7,5	14,1	17,4	22,3	237,5	215,1
EWAD405TZPRD1	7,5	14,1	19,0	24,0	223,2	199,3
EWAD450TZPRD1	7,5	14,1	21,2	17,4	214,7	197,3
EWAD490TZPRD1	9,2	17,4	23,0	20,6	250,3	229,7
EWAD530TZPRD2	9,2	17,4	25,0	39,6	237,6	198,1
EWAD575TZPRD2	11,0	20,2	27,0	45,2	264,5	219,3
EWAD615TZPRD2	11,0	20,2	29,2	31,5	248,8	217,3
EWAD675TZPRD2	11,0	20,2	32,0	36,5	226,8	190,2
EWAD735TZPRD2	15,0	26,6	34,6	38,6	259,1	220,5
EWAD810TZPRD2	15,0	26,6	38,2	34,7	246,7	212,1
EWAD890TZPRD2	15,0	26,6	41,8	39,8	233,3	193,5
EWAD960TZPRD2	18,5	33,0	45,2	44,9	268,6	223,7
EWADC10TZPRD2	18,5	33,0	47,4	48,3	259,2	211,0
EWADH10TZPRD2	22,0	42,2	50,6	53,6	289,8	236,2
EWADH11TZPRD2	22,0	42,2	53,7	53,5	274,2	220,7
EWADC12TZPRD2	22,0	42,2	56,8	58,5	257,5	199,0
EWADH12TZPRD2	22,0	39,0	61,1	39,1	250,1	211,0
EWADH13TZPRD2	22,0	39,0	64,7	42,56	235,5	192,9
EWADH14TZPRD2	30,0	53,0	68,4	46,44	299,0	252,6
EWADH15TZPRD2	30,0	53,0	73,6	51,99	279,3	227,3

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.4.12 EWAS TZ-D – Dual Pump High Lift

EWAS TZ-D BS | Blue Efficiency | Dual Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS275TZBSD1	5,5	10,4	12,4	24,6	233,5	208,9
EWAS320TZBSD1	7,5	14,1	14,8	20,2	243,6	223,4
EWAS345TZBSD1	7,5	14,1	16,1	23,8	238,9	215,1
EWAS400TZBSD1	9,2	17,4	19,4	44,0	269,3	225,3
EWAS470TZBSD1	9,2	17,4	21,5	53,6	258,6	205,0
EWAS525TZBSD1	9,2	17,4	24,1	37,1	243,6	206,5
EWAS580TZBSD1	11,0	20,2	26,5	44,2	268,2	224,0
EWAS625TZBSD1	11,0	20,2	28,5	50,7	254,1	203,4
EWAS755TZBSD2	15,0	26,6	35,0	47,7	257,8	210,1
EWAS830TZBSD2	15,0	26,6	38,2	54,8	247,0	192,2
EWAS915TZBSD2	18,5	33,0	42,2	40,3	281,0	240,8
EWASC10TZBSD2	18,5	33,0	46,8	47,4	261,6	214,2
EWASH10TZBSD2	22,0	39,0	50,1	47,8	289,0	241,1
EWASH11TZBSD2	22,0	39,0	53,7	53,5	277,3	223,7
EWASC12TZBSD2	22,0	39,0	57,1	59,0	265,5	206,5
EWASC13TZBSD2	30,0	53,0	60,3	63,8	326,4	262,7
EWASC14TZBSD2	30,0	53,0	63,6	70,4	315,8	245,5
EWASC15TZBSD2	30,0	53,0	68,0	45,9	300,8	254,8
EWASH16TZBSD2	N/A					
EWASH17TZBSD2	N/A					
EWASH18TZBSD2	N/A					
EWASH19TZBSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D SS | Silver Efficiency | Dual Pump High Lift | 400 V / 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZSSD1	5,5	10,4	13,6	17,2	225,3	208,2
EWAS325TZSSD1	7,5	14,1	15,7	18,4	240,5	222,1
EWAS380TZSSD1	7,5	14,1	17,9	37,9	231,7	193,8
EWAS430TZSSD1	9,2	17,4	20,3	48,3	264,7	216,5
EWAS495TZSSD1	9,2	17,4	23,3	34,8	248,9	214,1
EWAS535TZSSD1	9,2	17,4	25,3	40,3	236,1	195,8
EWAS595TZSSD1	11,0	20,2	27,9	48,9	258,2	209,3
EWAS650TZSSD1	15,0	26,6	30,3	56,6	272,4	215,8
EWAS520TZSSD2	9,2	17,4	24,9	31,7	238,5	206,8
EWAS555TZSSD2	9,2	17,4	26,4	35,3	228,0	192,7
EWAS585TZSSD2	11,0	20,2	27,8	38,6	259,0	220,4
EWAS645TZSSD2	11,0	20,2	30,8	34,1	236,6	202,4
EWAS705TZSSD2	15,0	26,6	33,5	39,8	262,7	222,9
EWAS760TZSSD2	15,0	26,6	36,2	50,3	254,0	203,6
EWAS835TZSSD2	18,5	33,0	39,7	59,1	290,3	231,2
EWAS960TZSSD2	18,5	33,0	45,3	45,0	268,5	223,5
EWASC10TZSSD2	18,5	33,0	47,8	48,9	257,5	208,6
EWASH10TZSSD2	22,0	39,0	49,8	47,4	289,9	242,5
EWASH11TZSSD2	22,0	39,0	54,8	55,2	273,7	218,5
EWASH12TZSSD2	22,0	39,0	60,5	64,1	252,6	188,5
EWASH13TZSSD2	30,0	53,0	64,8	72,7	311,8	239,1
EWASH14TZSSD2	30,0	53,0	69,9	47,9	293,8	245,8
EWASH15TZSSD2	30,0	53,0	73,5	51,9	279,6	227,7
EWASH16TZSSD2	N/A					
EWASH17TZSSD2	N/A					
EWASH18TZSSD2	N/A					
EWASH19TZSSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D XS|Gold Efficiency, standard sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS295TZXSD1	5,5	10,4	14,0	18,1	222,4	204,3
EWAS345TZXSD1	7,5	14,1	16,5	20,1	245,2	225,1
EWAS380TZXSD1	7,5	14,1	18,0	23,8	232,6	208,8
EWAS440TZXSD1	7,5	14,1	20,8	28,1	216,9	188,8
EWAS515TZXSD1	9,2	17,4	24,2	37,2	243,3	206,0
EWAS565TZXSD1	9,2	17,4	26,7	26,8	225,8	199,0
EWAS635TZXSD1	11,0	20,2	29,9	33,3	243,6	210,2
EWAS705TZXSD1	15,0	26,6	33,2	40,1	263,7	223,5
EWAS760TZXSD1	15,0	26,6	35,7	46,3	255,4	209,1
EWAS525TZXSD2	9,2	17,4	25,0	39,5	237,8	198,3
EWAS565TZXSD2	11,0	20,2	26,7	26,8	266,4	239,6
EWAS610TZXSD2	11,0	20,2	29,1	31,4	249,5	218,2
EWAS670TZXSD2	11,0	20,2	31,8	36,1	228,5	192,3
EWAS725TZXSD2	15,0	26,6	34,3	38,1	260,1	222,0
EWAS805TZXSD2	15,0	26,6	37,4	33,5	249,7	216,1
EWAS880TZXSD2	15,0	26,6	41,6	39,5	234,0	194,5
EWAS950TZXSD2	18,5	33,0	44,9	44,4	269,9	225,5
EWASC10TZXSD2	18,5	33,0	47,1	47,9	260,3	212,4
EWASH10TZXSD2	18,5	33,0	50,2	52,9	246,1	193,2
EWASH11TZXSD2	22,0	42,2	53,5	53,2	275,2	222,0
EWASC12TZXSD2	22,0	42,2	56,4	57,9	259,5	201,6
EWASH12TZXSD2	22,0	39,0	62,0	39,9	246,6	206,7
EWASH13TZXSD2	22,0	39,0	64,1	42,0	237,8	195,8
EWASH14TZXSD2	30,0	53,0	68,8	46,8	297,8	251,1
EWASH15TZXSD2	30,0	53,0	74,0	52,4	277,9	225,6
EWASH16TZXSD2	N/A					
EWASH17TZXSD2	N/A					

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

EWAS TZ-D PS|Platinum Efficiency, standard sound|Dual Pump High Lift|400 V/ 3ph / 50 Hz						
Models	Pump power input (3)	Current (3)	Flow rate (1)	Evaporator pressure drop (1)(2)	Pump available head @ std condition (1)(2)	Net water head @ std condition (1) (2)
	kW	A	l/s	kPa	kPa	KPa
EWAS285TZPSD1	5,5	10,4	13,7	14,2	224,4	210,2
EWAS330TZPSD1	7,5	14,1	15,9	18,8	249,3	230,5
EWAS370TZPSD1	7,5	14,1	17,7	23,0	235,4	212,4
EWAS405TZPSD1	7,5	14,1	19,3	24,7	220,4	195,8
EWAS450TZPSD1	7,5	14,1	21,5	18,2	213,0	194,9
EWAS490TZPSD1	9,2	17,4	23,3	21,0	248,6	227,6
EWAS530TZPSD2	9,2	17,4	25,4	40,5	235,4	194,9
EWAS575TZPSD2	11,0	20,2	27,4	46,2	262,2	216,0
EWAS615TZPSD2	11,0	20,2	29,6	32,1	246,0	213,8
EWAS675TZPSD2	11,0	20,2	32,3	37,3	223,8	186,6
EWAS735TZPSD2	15,0	26,6	35,0	39,3	258,0	218,7
EWAS810TZPSD2	15,0	26,6	38,6	35,2	245,3	210,1
EWAS890TZPSD2	15,0	26,6	42,2	40,3	231,9	191,6
EWAS960TZPSD2	18,5	33,0	45,5	45,3	267,4	222,1
EWASC10TZPSD2	18,5	33,0	47,7	48,9	257,6	208,7
EWASH10TZPSD2	22,0	42,2	50,9	54,2	288,4	234,1
EWASH11TZPSD2	22,0	42,2	53,0	58,1	278,1	220,0
EWASC12TZPSD2	22,0	42,2	57,1	59,0	255,7	196,7
EWASH12TZPSD2	22,0	39,0	61,4	39,4	248,9	209,5
EWASH13TZPSD2	22,0	39,0	65,0	42,9	234,1	191,2
EWASH14TZPSD2	30,0	53,0	68,8	46,8	297,7	250,8
EWASH15TZPSD2	30,0	53,0	74,0	52,5	277,7	225,3

i) The above data are referred to the unit without additional optional.
ii) Pump performances are valid for liquids with density ρ = 1,0 Kg/dm3 and kinematic viscosity v = 1 mm2/sec.
iii) All the data are subject to change without notice. For updated information on project base refer to Chiller Selection Software and unit's certified drawing

(1) Standard Rating Conditions for Air to water chillers according to EN14511:2 Outdoor Heat exchanger inlet dry bulb temperature 35°C at sea level; Indoor heat exchanger inlet water temperature 12°C, outlet water temperature 7°C. Fluid: water, Fouling factor = 0

(2) Fluid: water, not including filter pressure drop. The installation of the filter is mandatory.

(3) 400V power supply with ±10% tolerance on Voltage, Voltage unbalance between phases must be within ±3%

- **Pump motor protection IP55**
- **Pump motor Insulation Class F**

NOTE: In case of use with brine mixture contact factory

9.8 Heat recovery

TZ - D can be equipped with heat recovery capability. There are two levels of heat recovery:

- OPT 01 Total Heat recovery.
- OPT 03 Partial heat recovery.

The heat recovery exchanger is Brazed Plate type. Each circuit is provided with dedicated BPHE. Dual circuit unit have two separate BPHE. Refer to unit drawing for heat exchanger position and connections.

The water contents for the heat recovery exchangers are listed in the below tables:

EWAH TZ D – R1234ze		
Model	**Partial Heat recovery [lt]**	**Total Heat recovery [lt]**
EWAH235TZBSD1	5,5	11
EWAH255TZBSD1	5,5	16
EWAH300TZBSD1	6,5	16
EWAH350TZBSD1	6,5	12,5
EWAH400TZBSD1	6,5	12,5
EWAH420TZBSD1	6,5	12,5
EWAH455TZBSD1	12,5	25
EWAH505TZBSD1	12,5	25
EWAH545TZBSD1	12,5	25
EWAH400TZBSD2	5	11
EWAH425TZBSD2	5,5	11
EWAH485TZBSD2	5,5	11
EWAH545TZBSD2	5,5	16
EWAH590TZBSD2	6,5	16
EWAH635TZBSD2	6,5	16
EWAH745TZBSD2	6,5	12,5
EWAH785TZBSD2	6,5	12,5
EWAH845TZBSD2	6,5	12,5
EWAH900TZBSD2	6,5	25
EWAH985TZBSD2	12,5	25
EWAHC11TZBSD2	12,5	25
EWAHH11TZBSD2	12,5	25
EWAHC13TZBSD2	25	45
EWAHH13TZBSD2	25	45
EWAHH14TZBSD2	25	N.A.
EWAHC15TZBSD2	25	N.A.
EWAHH15TZBSD2	25	N.A.
EWAH240TZSSD1	5,5	11
EWAH265TZSSD1	5,5	16
EWAH295TZSSD1	6,5	16
EWAH370TZSSD1	6,5	12,5
EWAH415TZSSD1	6,5	12,5

Model	Partial Heat recovery [lt]	Total Heat recovery [lt]
EWAH450TZSSD1	6,5	12,5
EWAH490TZSSD1	12,5	25
EWAH540TZSSD1	12,5	25
EWAH400TZSSD2	5	11
EWAH470TZSSD2	5,5	11
EWAH535TZSSD2	5,5	11
EWAH595TZSSD2	6,5	16
EWAH630TZSSD2	6,5	16
EWAH690TZSSD2	6,5	12,5
EWAH740TZSSD2	6,5	12,5
EWAH795TZSSD2	6,5	12,5
EWAH855TZSSD2	6,5	12,5
EWAH910TZSSD2	6,5	25
EWAH980TZSSD2	12,5	25
EWAHC10TZSSD2	12,5	25
EWAHC11TZSSD2	12,5	25
EWAHC12TZSSD2	12,5	25
EWAHH12TZSSD2	25	45
EWAHH13TZSSD2	25	45
EWAHC14TZSSD2	25	N.A.
EWAHC15TZSSD2	25	N.A.
EWAHH15TZSSD2	25	N.A.
EWAH220TZXS/RD1	5,5	11
EWAH230TZXS/RD1	5,5	11
EWAH275TZXS/RD1	5,5	16
EWAH300TZXS/RD1	6,5	16
EWAH350TZXS/RD1	6,5	12,5
EWAH400TZXS/RD1	6,5	12,5
EWAH470TZXS/RD1	6,5	25
EWAH515TZXS/RD1	12,5	25
EWAH540TZXS/RD1	12,5	25
EWAH620TZXS/RD1	12,5	45
EWAH465TZXS/RD2	5,5	11
EWAH545TZXS/RD2	5,5	11
EWAH600TZXS/RD2	6,5	16
EWAH645TZXS/RD2	6,5	16
EWAH700TZXS/RD2	6,5	12,5
EWAH750TZXS/RD2	6,5	12,5
EWAH790TZXS/RD2	6,5	12,5
EWAH840TZXS/RD2	6,5	12,5
EWAH900TZXS/RD2	6,5	12,5
EWAH975TZXS/RD2	12,5	25
EWAHH10TZXS/RD2	12,5	25
EWAHH11TZXS/RD2	12,5	25

All above data are subject to change without notice.

Model	Partial Heat recovery [lt]	Total Heat recovery [lt]
EWAHH12TZXS/RD2	12,5	45
EWAHH13TZXS/RD2	25	45
EWAH225TZPS/RD1	5,5	11
EWAH265TZPS/RD1	5,5	11
EWAH295TZPS/RD1	6,5	16
EWAH340TZPS/RD1	6,5	16
EWAH395TZPS/RD1	6,5	12,5
EWAH435TZPS/RD1	6,5	12,5
EWAH490TZPS/RD1	6,5	25
EWAH545TZPS/RD1	12,5	25
EWAH500TZPS/RD2	5,5	11
EWAH540TZPS/RD2	5,5	11
EWAH615TZPS/RD2	5,5	16
EWAH645TZPS/RD2	6,5	16
EWAH700TZPS/RD2	6,5	12,5
EWAH770TZPS/RD2	6,5	12,5
EWAH845TZPS/RD2	6,5	12,5
EWAH900TZPS/RD2	6,5	12,5
EWAH960TZPS/RD2	6,5	25
EWAHC10TZPS/RD2	12,5	25
EWAHH10TZPS/RD2	12,5	25
EWAHH11TZPS/RD2	12,5	25
EWAHC12TZPS/RD2	12,5	25

All above data are subject to change without notice.

EWAD TZ D – R134a		
Model	**Partial Heat recovery [lt]**	**Total Heat recovery [lt]**
EWAD275TZBSD1	5	16
EWAD320TZBSD1	5	16
EWAD345TZBSD1	5	16
EWAD400TZBSD1	5,5	12,5
EWAD470TZBSD1	5,5	25
EWAD525TZBSD1	6,5	25
EWAD580TZBSD1	6,5	25
EWAD625TZBSD1	6,5	45
EWAD510TZBSD2	5	16
EWAD545TZBSD2	5	16
EWAD570TZBSD2	5	16
EWAD630TZBSD2	5	16
EWAD670TZBSD2	5	16
EWAD755TZBSD2	5	12,5
EWAD830TZBSD2	5,5	12,5
EWAD915TZBSD2	5,5	12,5
EWADC10TZBSD2	6,5	25
EWADH10TZBSD2	6,5	25
EWADH11TZBSD2	6,5	25
EWADC12TZBSD2	6,5	45
EWADC13TZBSD2	6,5	45
EWADC14TZBSD2	6,5	45
EWADC15TZBSD2	12,5	45
EWADH16TZBSD2	12,5	N.A.
EWADH17TZBSD2	12,5	N.A.
EWADH18TZBSD2	12,5	N.A.
EWADH19TZBSD2	25	N.A.
EWAD285TZSSD1	5	16
EWAD325TZSSD1	5	16
EWAD380TZSSD1	5	16
EWAD430TZSSD1	5,5	12,5
EWAD495TZSSD1	5,5	25
EWAD535TZSSD1	6,5	25
EWAD595TZSSD1	6,5	25
EWAD650TZSSD1	6,5	45
EWAD520TZSSD2	5	16
EWAD555TZSSD2	5	16
EWAD585TZSSD2	5	16
EWAD645TZSSD2	5	16
EWAD705TZSSD2	5	16
EWAD760TZSSD2	5	12,5

All above data are subject to change without notice.

Model	Partial Heat recovery [lt]	Total Heat recovery [lt]
EWAD835TZSSD2	5,5	12,5
EWAD960TZSSD2	5,5	25
EWADC10TZSSD2	6,5	25
EWADH10TZSSD2	6,5	25
EWADH11TZSSD2	6,5	25
EWADH12TZSSD2	6,5	45
EWADH13TZSSD2	6,5	45
EWADH14TZSSD2	12,5	45
EWADH15TZSSD2	12,5	45
EWADH16TZSSD2	12,5	N.A.
EWADH17TZSSD2	12,5	N.A.
EWADH18TZSSD2	12,5	N.A.
EWADH19TZSSD2	25	N.A.
EWAD295TZXS/RD1	5	16
EWAD345TZXS/RD1	5	16
EWAD380TZXS/RD1	5	16
EWAD440TZXS/RD1	5,5	12,5
EWAD515TZXS/RD1	5,5	12,5
EWAD565TZXS/RD1	6,5	25
EWAD635TZXS/RD1	6,5	45
EWAD705TZXS/RD1	12,5	45
EWAD760TZXS/RD1	12,5	45
EWAD525TZXS/RD2	5	11
EWAD565TZXS/RD2	5	16
EWAD610TZXS/RD2	5	16
EWAD670TZXS/RD2	5	16
EWAD725TZXS/RD2	5	16
EWAD805TZXS/RD2	5	16
EWAD880TZXS/RD2	5,5	12,5
EWAD950TZXS/RD2	5,5	12,5
EWADC10TZXS/RD2	6,5	25
EWADH10TZXS/RD2	6,5	25
EWADH11TZXS/RD2	6,5	25
EWADC12TZXS/RD2	6,5	25
EWADH12TZXS/RD2	6,5	45
EWADH13TZXS/RD2	6,5	45
EWADH14TZXS/RD2	6,5	45
EWADH15TZXS/RD2	12,5	45
EWADH16TZXS/RD2	12,5	N.A.
EWADH17TZXS/RD2	12,5	N.A.
EWAD285TZPS/RD1	5	16
EWAD330TZPS/RD1	5	16
EWAD370TZPS/RD1	5	16

All above data are subject to change without notice.

Model	Partial Heat recovery [lt]	Total Heat recovery [lt]
EWAD405TZPS/RD1	5	12,5
EWAD450TZPS/RD1	5,5	12,5
EWAD490TZPS/RD1	5,5	12,5
EWAD530TZPS/RD2	5	11
EWAD575TZPS/RD2	5	16
EWAD615TZPS/RD2	5	16
EWAD675TZPS/RD2	5	16
EWAD735TZPS/RD2	5	16
EWAD810TZPS/RD2	5	16
EWAD890TZPS/RD2	5,5	12,5
EWAD960TZPS/RD2	5,5	12,5
EWADC10TZPS/RD2	6,5	25
EWADH10TZPS/RD2	6,5	25
EWADH11TZPS/RD2	6,5	25
EWADC12TZPS/RD2	6,5	25
EWADH12TZPS/RD2	6,5	45
EWADH13TZPS/RD2	6,5	45
EWADH14TZPS/RD2	6,5	45
EWADH15TZPS/RD2	12,5	45

All above data are subject to change without notice.

EWAS TZ D – R513A		
Model	**Partial Heat recovery [lt]**	**Total Heat recovery [lt]**
EWAS275TZBSD1	5	16
EWAS320TZBSD1	5	16
EWAS345TZBSD1	5	16
EWAS400TZBSD1	5,5	12,5
EWAS470TZBSD1	5,5	25
EWAS525TZBSD1	6,5	25
EWAS580TZBSD1	6,5	25
EWAS625TZBSD1	6,5	45
EWAS755TZBSD2	5	12,5
EWAS830TZBSD2	5,5	12,5
EWAS915TZBSD2	5,5	12,5
EWASC10TZBSD2	6,5	25
EWASH10TZBSD2	6,5	25
EWASH11TZBSD2	6,5	25
EWASC12TZBSD2	6,5	45
EWASC13TZBSD2	6,5	45
EWASC14TZBSD2	6,5	45
EWASC15TZBSD2	12,5	45
EWASH16TZBSD2	12,5	N.A.
EWASH17TZBSD2	12,5	N.A.
EWASH18TZBSD2	12,5	N.A.
EWASH19TZBSD2	25	N.A.
EWAS285TZSSD1	5	16
EWAS325TZSSD1	5	16
EWAS380TZSSD1	5	16
EWAS430TZSSD1	5,5	12,5
EWAS495TZSSD1	5,5	25
EWAS535TZSSD1	6,5	25
EWAS595TZSSD1	6,5	25
EWAS650TZSSD1	6,5	45
EWAS520TZSSD2	5	16
EWAS555TZSSD2	5	16
EWAS585TZSSD2	5	16
EWAS645TZSSD2	5	16
EWAS705TZSSD2	5	16
EWAS760TZSSD2	5	12,5
EWAS835TZSSD2	5,5	12,5
EWAS960TZSSD2	5,5	25
EWASC10TZSSD2	6,5	25
EWASH10TZSSD2	6,5	25
EWASH11TZSSD2	6,5	25
EWASH12TZSSD2	6,5	45

All above data are subject to change without notice.

Model	Partial Heat recovery [lt]	Total Heat recovery [lt]
EWASH13TZSSD2	6,5	45
EWASH14TZSSD2	12,5	45
EWASH15TZSSD2	12,5	45
EWASH16TZSSD2	12,5	N.A.
EWASH17TZSSD2	12,5	N.A.
EWASH18TZSSD2	12,5	N.A.
EWASH19TZSSD2	25	N.A.
EWAS295TZXS/RD1	5	16
EWAS345TZXS/RD1	5	16
EWAS380TZXS/RD1	5	16
EWAS440TZXS/RD1	5,5	12,5
EWAS515TZXS/RD1	5,5	12,5
EWAS565TZXS/RD1	6,5	25
EWAS635TZXS/RD1	6,5	45
EWAS705TZXS/RD1	12,5	45
EWAS760TZXS/RD1	12,5	45
EWAS525TZXS/RD2	5	11
EWAS565TZXS/RD2	5	16
EWAS610TZXS/RD2	5	16
EWAS670TZXS/RD2	5	16
EWAS725TZXS/RD2	5	16
EWAS805TZXS/RD2	5	16
EWAS880TZXS/RD2	5,5	12,5
EWAS950TZXS/RD2	5,5	12,5
EWASC10TZXS/RD2	6,5	25
EWASH10TZXS/RD2	6,5	25
EWASH11TZXS/RD2	6,5	25
EWASC12TZXS/RD2	6,5	25
EWASH12TZXS/RD2	6,5	45
EWASH13TZXS/RD2	6,5	45
EWASH14TZXS/RD2	6,5	45
EWASH15TZXS/RD2	12,5	45
EWASH16TZXS/RD2	12,5	N.A.
EWASH17TZXS/RD2	12,5	N.A.
EWAS285TZPS/RD1	5	16
EWAS330TZPS/RD1	5	16
EWAS370TZPS/RD1	5	16
EWAS405TZPS/RD1	5	12,5
EWAS450TZPS/RD1	5,5	12,5
EWAS490TZPS/RD1	5,5	12,5
EWAS530TZPS/RD2	5	11
EWAS575TZPS/RD2	5	16
EWAS615TZPS/RD2	5	16

All above data are subject to change without notice.

Model	Partial Heat recovery [lt]	Total Heat recovery [lt]
EWAS675TZPS/RD2	5	16
EWAS735TZPS/RD2	5	16
EWAS810TZPS/RD2	5	16
EWAS890TZPS/RD2	5,5	12,5
EWAS960TZPS/RD2	5,5	12,5
EWASC10TZPS/RD2	6,5	25
EWASH10TZPS/RD2	6,5	25
EWASH11TZPS/RD2	6,5	25
EWASC12TZPS/RD2	6,5	25
EWASH12TZPS/RD2	6,5	45
EWASH13TZPS/RD2	6,5	45
EWASH14TZPS/RD2	6,5	45
EWASH15TZPS/RD2	12,5	45

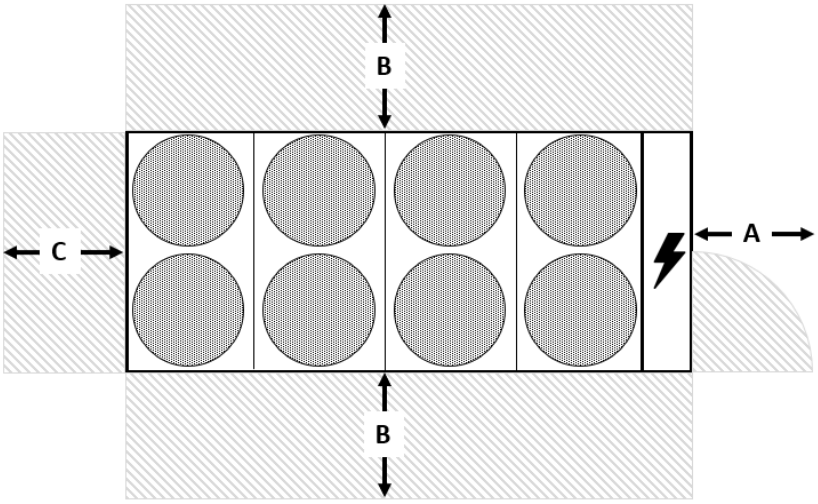
All above data are subject to change without notice

10. Installation notes

Installation and maintenance of the unit must be performed only by qualified personnel who have knowledge with local codes and regulations, and experience with this type of equipment. Avoid installation in places that could be considered dangerous for all the maintenance operations.

Care should be taken to avoid rough handling or shock due to dropping the unit. Do not push or pull the unit from anything other than the base frame. Never allow the unit to fall during unloading or moving as this may result in serious damage. To lift the unit, rings are provided in the base frame of the unit. Spreader bar and cables should be arranged to prevent damage to cabinet.

The units are produced for outdoor installation on roofs, floors or below ground level on condition that the area is free from obstacles for the passage of the condenser air. The unit should be positioned on solid foundations and perfectly leveled; in the case of installation on roofs or floors, it may be advisable to arrange the use of suitable weight distribution beams. When the units are installed on the ground, a concrete base at least 250 mm wider and longer than the unit's footprint should be laid. Furthermore, this base should withstand the unit weight mentioned in the technical data table.



Space requirements Each side of the unit must be accessible after installation for periodic service.
The following pictures shows you minimum recommended clearance requirements for service activities.

- A at least 1500 mm
- B at least 1800 mm
- C at least 1800 mm for single circuit units
- C at least 3000 mm for dual circuit units

The above values are general guidelines. When consider unit installation is fundamental to consider proper clearances around the unit to perform all possible maintenance activities and replacing of unit's components in respect of safety standard. Deviation from guidelines should be evaluated by local service provider.

Is important also to consider proper space around the unit to prevent/mitigate hot air recirculation. In most of the cases hot air recirculation results in higher temperature entering the condenser affecting the unit performances.
In case of unit to be installed close to a wall with same eight a general rule is to have at least 3 meters between the wall and the unit. If the wall taller than the unit countermeasures could be necessary to mitigate hot air recirculation (see option list and contact Daikin representative to discuss possible solutions).
In case of multiple chillers installed side by side general rule is to have 3,6 meters between each chiller if the installation does not allow for this there are countermeasures could be necessary to mitigate hot air recirculation.
The above are general guidelines and different solutions could be considered based on specific installation constrains.

Refer to Installation and Operation Manual for details on storage, handling, and installation of the unit

11. Technical Specifications

General information

The chiller will be designed and manufactured in accordance with the following European directives:

- Construction of pressure vessel 2014/68/EU
- Machinery Directive 2006/42/EC
- Low Voltage 2014/35/EU
- Electromagnetic Compatibility 2014/30/EU
- Harmonized standard EN 60204–1 Safety of Machinery
- Manufacturing Quality Standards UNI – UNI EN 14000

The unit will be tested at full load in the factory (at the nominal working conditions and water temperatures).
The chiller will be delivered to the job site completely assembled and charged with refrigerant and oil.
The installation of the chiller must comply with the manufacturer's instructions for rigging and handling equipment.

The unit will be able to start up and operate (as standard) at full load with:

- Outside air temperature from..... °C to..... °C
- Evaporator leaving fluid temperature between..... °C and..... °C

Refrigerant:

HFO	R1234ze
HFO - HFC	R513A
HFC	R134a

Performance

Chiller shall supply the following performances:

Number of Chiller(s)		unit(s)
Fluid		type
Cooling capacity for single chiller		kW
Power input for single chiller		kW
Evaporator Entering Temperature (EET)		°C
Evaporator Leaving Temperature (ELT)		°C
Evaporator Water Flow rate		l/s
Design outdoor temperature		°C
Minimum full load efficiency (EER)		kW/kW
Minimum part load efficiency (SEER)		kW/kW
Minimum part load efficiency (SEPR)		kW/kW
Minimum part load efficiency (IPLV)		kW/kW
Minimum part load efficiency (ESEER)		kW/kW

Operating voltage range should be 400V ±10%, 3ph, 50Hz (or 380V ±10%, 3ph, 60Hz), voltage unbalance maximum 3%, without neutral conductor and shall only have one power connection point.

Unit description

Chiller shall include one or two independent refrigerant circuits, semi-hermetic type rotary single screw compressors, electronic expansion device (EEXV), direct expansion brazed plate heat exchanger evaporator for single circuit and 'shell & tube' evaporator for dual circuit units, air-cooled condenser section made with aluminum Microchannel technology, R1234ze, R-134a, or R513A refrigerant, lubrication system, motor starting components, suction and discharge line shut-off valve, control system and all components necessary for a safe and stable unit operation.

Sound level and vibrations

Sound power level shall not exceed ……dB(A). The sound power levels must be rated in accordance with ISO 9614 (other types of rating cannot be used).

Dimensions

Unit dimensions shall not exceed following indications:

- Unit length..... mm
- Unit width..... mm
- Unit height..... mm

Compressors

The unit shall be equipped with a semi-hermetic, single screw type compressor with one main helical rotor (screw) engaging with one or two (depending on the model) gate rotors. The gate rotors shall be made of composite material (used in aerospace industry) to ensure high resistance to the mechanical stress and preventing the risk of "metal to metal" contact. The support of the gate rotor shall be of cast iron.
The compressor shall be provided with integral oil separator and oil filter. The oil injection shall be achieved without external mechanical pump but by means of pressure differential between compressor's suction and discharge. The compressor's oil cooling must be realized, when necessary, by refrigerant liquid injection. External dedicated heat exchanger and additional piping to carry the oil from the compressor to heat exchanger and vice versa will be not accepted. The compressor's oil cooling must be realized, when necessary, by refrigerant liquid injection. External dedicated heat exchanger and additional piping to carry the oil from the compressor to heat exchanger and vice versa will be not accepted. The compressor shall be direct electrical driven, without gear transmission between the screw and the electrical motor. The capacity of the compressor shall be controlled by Variable Frequency Driver. The drive shall be integrated on the compressor frame and cooled by the refrigerant. Other type of cooling system requiring dedicated maintenance activities (e.g., air or water / glycol mixtures) shall not be accepted. The drive casing shall be of UV resistant material and accessible without dismounting the compressor from the unit. Compressor shall be fully field serviceable. Compressor that must be removed and returned to the factory for service shall be unacceptable.

Evaporator

Single circuit units:

The units shall be equipped with a direct expansion plate to plate type evaporator The evaporator will be made of stainless-steel brazed plates and shall be linked with an electrical heater controlled by a thermostat and shall be insulated with flexible, closed cell polyurethaneinsulation material. The water connections shall be VICTAULIC type connections as standard to ensure quickmechanical disconnection between the unit and the hydronic network.
As option flanged connection can be provided.
The evaporator will be manufactured in accordance with PED approval.
Flow switch on evaporator available as option (shipped loose on Modular V)
Water filter on evaporator available as option (shipped loose)

Dual circuit units:
The units shall be equipped with a direct expansion shell & tube evaporator with copper tubes rolled into steel tube sheets.
The external shell shall insulate with flexible, closed cell polyurethane insulation material (20 -mm thick).

- The evaporator will have 2 circuits, one for each compressor and shall be single refrigerant pass.
- The water connections shall be VICTAULIC type connections as standard to ensure quick mechanical disconnection between the unit and the hydronic network.
- The evaporator will be manufactured in accordance to PED approval.
- Flow switch on evaporator available as option (shipped loose).
- Water filter needs to be provided on the plant.

Condenser Heat Exchanger

Full Aluminum - Microchannel type (standard Configuration)
The condenser is made entirely of aluminum with flat tubes containing small channels. Full - depth louvered aluminum fins are inserted between the tubes maximizing the heat exchange. The Microchannel technology ensures the highest performance with the minimum surface for the exchanger. The quantity of refrigerant is also reduced compared to Tube and fins condenser. Anticorrosion treatments ensure resistance to the corrosion by atmospheric agents extending the lifetime (available on request).

Cu/Al - Tube & fins type (available as option)
The condenser is manufactured with internally enhanced seamless copper tubes arranged in a staggered row pattern and mechanically expanded into lanced and rippled aluminum Air Side Heat Exchanger fins with full fin collars. An integral sub-cooler circuit provides sub-cooling to effectively eliminate liquid flashing and increase cooling capacity without increasing the power input.

Additional treatments available as option

- **Blue Coat for Microchannel (available as option):**
  Epoxy powder is sprayed and electrostatically fixed to the coil. Once the external surface is completely covered by the epoxy material, the coil is sent into a furnace for the drying and curing phase. The result is a uniform and durable coating on the external surface of the coil that enhance the resistance to the corrosion. The treatment is recommended in all application where moderate risk of corrosion exist (e.g.: light polluted urban and industrial environments).

- **E-coating (available as option):**
  A layer of an epoxy polymer is added on the surface of the exchanger. The process consists in the complete immersion of the exchanger in the epoxy polymer solution. An electric voltage applied to the exchanger causes a difference with the electrical charge of the polymer molecules that, as result, are drawn to the metal. The thickness of the coating is controlled by the applied voltage. The result is a uniform layer of epoxy polymers applied all over the exchanger surface. A final UV top-coat treatment is applied on the coil surface.

  The heat exchanger provided with e-coating shall Pass 3000 hours in SWAAT test according to ASTM G85 Annex 3 without leakage.

Condenser fans

The condenser fans used in conjunction with the condenser coils, shall be propeller with glass reinforced resin blades for higher efficiencies and lower sound. Each fan shall be protected by a fan guard.
The air discharge shall be vertical, and each fan must be coupled to the electrical motor AC or EC type (depending on model and option selected). Fan shall be rated IP55.
The condenser fans shall have as a standard a thermally protection by internal thermal motor.

Refrigerant circuit

The unit shall have one or two independent refrigerant circuits.
The circuit shall include as standard: electronic expansion device controlled by unit's microprocessor control, liquid line shut-off valve, sight glass with moisture indicator, filter drier, charging valves, high pressure switch, high- and low-pressure transducers, oil pressure transducer and insulated suction line, Condensation control. The units will be provided with an automatic control for condensing pressure (SPEEDTROL) which ensures the working at low external temperatures down to -20°C
The unit automatically unloads when abnormal high condensing pressure is detected. This to prevent the shutdown of the refrigerant circuit (shutdown of the unit) due to a high-pressure fault.
The compressor shall be connected to unit's metal base frame by rubber anti vibration supports to prevent the transmission of vibrations to all metal unit structure, to limit the unit noise emissions.
The chiller shall be provided with an acoustical compressor enclosure (available as option on specific version). This enclosure shall be realized with a light, corrosion resisting aluminum structure and metal panels. The compressor sound-proof enclosure (available as option) shall be internally fitted with flexible, multi-layer, high density materials.

Rapid Restart (available as option)

When unit is equipped with rapid restart, unit controller is powered by UPS unit. In case of power failure UPS unit keeps unit controller powered for 180 sec. When power is restored within that period unit start compressor within 30 seconds and reach full capacity within 180 seconds.

Hydronic kit options (on request)

The hydronic module shall be integrated in the chiller chassis without increasing its dimensions and includes the following elements: centrifugal pump with motor protected by a circuit breaker installed in control panel, water filling system with pressure gauge, safety valve, drain valve,
The hydronic module shall be assembled and wired to the control panel.
The water piping shall be protected against corrosion and freezing and insulated to prevent condensation.
A choice of two pump types shall be available:

- single pump
- twin pumps

Unit control capable to manage variable flow operation in case of unit selected with VFD pumps.

Master/Slave

The unit shell be able to operate in Master / Slave mode to be connected with another similar unit (up to 4), The master unit shall manage the slave units connected in series on the hydraulic plant with the aim of balancing compressors running hours and the load between of the units.

Electrical control panel

Power and control shall be located in the main panel that will be manufactured to ensure protection against all weather conditions.
The electrical panel shall be IP54 and (when opening the doors) internally protected against possible accidental contact with live parts.
The main panel shall be fitted with a main switch interlocked door that shuts off power supply when opening.
The power section will include compressors and fans starter devices.

Controller

The controller will be installed as standard, and it will be used to modify unit set-points and check control parameters.
A built-in display A mobile App HMI (Daikin mAP) will show chiller operating status plus temperatures and pressures of water, refrigerant and air, programmable values and set points. With Daikin mAP it is possible to access to unit documentation, spare parts list and making live Trend of unit operating values.
A sophisticated software with predictive logic, will select the most energy efficient combination of compressors, EEXV and condenser fans to keep stable operating conditions to maximize chiller energy efficiency and reliability.
The controller will be able to protect critical components based on external signals received from the unit itself (such as motor temperatures, refrigerant gas and oil pressures, correct phase sequence, pressure switches and evaporator flow switch). The input coming from the high-pressure switch cuts all digital output from the controller in less than 50ms, this will be an additional safety for the equipment.
Floating point calculations supported for increased accuracy in P/T conversions.

Controller features

Controller shall be guarantee following minimum functions:

Management of the compressors,
Chiller enabled to work in partial failure condition.
Full routine operation at condition of:

- high ambient temperature value
- high thermal load
- high evaporator entering water temperature (start-up)
- Display of evaporator entering/leaving water temperature
- Display of Outdoor Ambient Temperature
- Display of condensing-evaporating temperature and pressure suction and discharge superheat for each circuit
- Leaving water evaporator temperature regulation
- Compressor and evaporator pumps hours counter
- Display of Status Safety Devices
- Number of starts and compressor working hours.
- Optimized management of unit load
- Fan management according to condensing pressure
- Re-start in case of power failure (automatic / manual)
- Soft Load (optimized management of the unit load during the start-up)
- Start at high evaporator water temperature.
- Return Reset (Set Point Reset based on return water temperature)
- OAT (Outside Ambient temperature) set-point reset.

Set point Reset from external signal (optional)
Application and system upgrade with commercial SD cards
Ethernet port for remote or local servicing using standard web browsers.

High Level Communications Interface (on request)

The chiller shall be able to communicate to BMS (Building Management System)based on the most common protocols as:

- Modbus RTU
- BACnet BTP certified over IP

Performance monitoring (available as option)

Unit shall be capable of providing both instantaneous and integrated information of Capacity, Power Absorption and Efficiency. This information shall be accessible from unit controller with mobile App and remotely via communication protocol (Modbus, BACnet)

Integrated Active Harmonic Filter – iAHF (available as option)

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