

VRV 5 heat recovery Air Conditioning Technical Data REYA-A



REYA8A7Y1B REYA10A7Y1B REYA12A7Y1B REYA14A7Y1B REYA16A7Y1B REYA18A7Y1B REYA20A7Y1B REYA10A7Y1B. REYA13A7Y1B REYA16A7Y1B. REYA18A7Y1B. REYA20A7Y1B. REYA22A7Y1B REYA24A7Y1B REYA26A7Y1B REYA28A7Y1B REMA5A7Y1B

TABLE OF CONTENTS REYA-A

1	Features REYA-A	5 5
2	Specifications	6
3	Options	14
4	Combination table	15
5	Capacity tables Capacity Table Legend Integrated Heating Capacity Correction Factor Capacity Correction Factor	18 18 19 20
6	Dimensional drawings	26
7	Centre of gravity	27
8	Piping diagrams	29
9	Wiring diagrams Wiring Diagrams - Three Phase	30 30
10	External connection diagrams	32
11	Sound data Sound Power Spectrum - Cooling Sound Power Spectrum - Heating Sound Pressure Spectrum - Cooling Sound Pressure Spectrum - Heating Sound level data Quiet mode Sound power level at high ESP	33 37 41 45 49 51
12	Installation Installation Method Fixation and Foundation of Units Refrigerant Pipe Selection Refrigerant Charge Information	52 53 54 56
13	Operation range	64





14 Appropriate Indoors

Features 1 1 - 1 **REYA-A**

The sustainability champion

- > "Free" heating provided by transferring heat from areas requiring cooling to areas requiring heating
- > Reduced CO2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- real-life seasonal efficiency
- > Tackle small room applications without any additional measures, thanks to Shîrudo technology
- > Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- > The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- > Top sustainability over the entire lifecycle, thanks to market leading >> Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor





Variable refrigerant temperature



2Specifications2-1Specifications

	hnical Specifications				REYA10A	REYA12A	REYA14A	REYA16A	REYA18A	REYA20A
Recommended combinat	ion			4 x FXFA50A2VEB	4 x FXFA63A2VEB	6 x FXFA50A2VEB	1 x FXFA50A2VEB	4 x FXFA63A2VEB	3 x FXFA50A2VEB	8 x FXFA63A2V
							+ 5 x	+ 2 x	+ 5 x	
							FXFA63A2VEB	FXFA80A2VEB	FXFA63A2VEB	
Recommended combinat	ion 2			4 x FXSA50A2VEB	4 x FXSA63A2VEB	6 x FXSA50A2VEB			3 x FXSA50A2VEB	8 x FXSA63A2V
							+ 5 x	+ 2 x	+ 5 x	
N							FXSA63A2VEB	FXSA80A2VEB	FXSA63A2VEB	0. EVALA (24.5V
Recommended combinat	ion 3			4 x FXMA50A5VEB	4 x FXMA63A5VEB	6 x FXMA50A5VEB				8 X FXMA63A5V
							+ 5 x FXMA63A5VEB	+ 2 x FXMA80A5VEB	+ 5 x FXMA63A5VEB	
Cooling capacity	Prated,c		kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	45.0 (1)	50.4 (1)	56.0 (1)
Heating capacity	Nom.	6°CWB	kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	45.0 (1)	50.4 (1)	56.0 (2)
neating capacity	Prated,h	U CWD	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	45.0 (2)	50.4 (2)	56.0 (2)
	Max.	6°CWB	kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)	50.0 (2)	56.5 (2)	63.0 (2)
Power input - 50Hz	Heating	Nom. 6°CWB	kW	5.85 (2)	8.12 (2)	9.69 (2)	11.20 (2)	12.78 (2)	13.79 (2)	16.61 (2)
COP at nom. capacity	6°CWB		kW/kW	3.83 (2)	3.45 (2)	3.46 (2)	3.57 (2)	3.52 (2)	3.66 (2)	3.37 (2)
SCOP	0 010		,	4.11	4.33	4.49	4.28	4.26	4.39	4.14
SCOP recommended com	bination 2			4.10	4.34	4.56	1120	4.33	100	4.11
SCOP recommended com				4.15	4.40	4.56	4.33	4.32	4.39	4.14
SEER				7.35	7.14	7.21	7.73	7.10	7.09	6.63
SEER recommended comb	pination 2			7.07	6.87	6.90	7.53	7.01	6.94	6.57
SEER recommended comb				7.49	7.15	7.41	7.78	7.15	7.11	6.64
ηs,c			%	290.8	282.6	285.3	306.1	281.0	280.6	262.2
ηs,c recommended comb	ination 2		%	279.6	271.7	273.2	298.3	277.4	274.8	259.6
ηs,c recommended comb			%	296.5	283.1	293.4	308.1	283.1	281.3	262.5
ηs,h			%	161.5	170.2	176.4	168.3	167.5	172.5	162.7
ηs,c recommended comb	ination 2					·	-	·	·	
ηs,h recommended comb	ination 2		%	161.1	170.4	179.5		170.2		161.4
ηs,h recommended comb	ination 3		%	163.2	172.9	179.5	170.2	169.6	172.7	162.7
Space cooling	A Condition	EERd		3.25	3.26	3.24	3.26	3.23	2.73	2.57
	(35°C - 27/19)	Pdc	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	B Condition	EERd		5.23	5.00	4.60	4.92	4.58	4.47	4.42
	(30°C - 27/19)	Pdc	kW	16.5	20.6	24.7	29.5	33.2	37.1	41.3
	C Condition			9.11	8.50	8.45	8.74	8.25	8.15	7.70
	(25°C - 27/19)		kW	10.6	13.3	15.9	18.9	21.3	23.9	26.5
	D Condition			15.3	14.8	17.7	22.5	16.7	20.7	15.8
	(20°C - 27/19)		kW	8.13	8.19	8.57	10.9	11.1	12.0	11.6
Space cooling recom-	A Condition			3.		3.00	3.23	3.06	2.64	2.52
mended combination 2	(35°C - 27/19)		kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	B Condition			5.09	4.83	4.54	4.85	4.64	4.43	4.41
	(30°C - 27/19)		kW	16.5	20.6	24.7	29.5	33.2	37.1	41.3
	C Condition			8.55	8.06	7.94	8.38	8.11	7.87	7.41
<u> </u>	(25°C - 27/19)		kW	10.6	13.3	15.9	18.9	21.3	23.9	26.5
Space cooling recom-	D Condition		L/M/	14.6	14.1	16.9	21.7	16.5	20.0	16.6
mended combination 2	(20°C - 27/19)		kW	7.84	7.97	8.20	10.6	10.8	11.6	11.9
Space cooling recom- mended combination 3	A Condition (35°C - 27/19)		kW	3.22	3.27	3.23	3.30	3.04	2.66	2.50
menueu compination 3	(35°C - 27/19) B Condition		KW	5.31	28.0 4.91	33.5 4.69	40.0	45.0 4.64	50.4 4.49	56.0 4.41
	(30°C - 27/19)		kW		20.6	24.7	29.5		4.49	4.41
	C Condition		K VV	9.41	8.59	8.82	8.84	33.2 8.50	8.22	7.71
	(25°C - 27/19)		kW	9.41	13.3	15.9	8.84	21.3	23.9	26.5
	D Condition		N IV	10.6	15.1	18.5	22.4	16.7	23.9	16.4
	(20°C - 27/19)		kW	8.19	8.13	8.50	10.9	10.7	11.9	10.4
Space heating (Average	TBivalent	COPd (declared COP)	N YY	2.80	2.28	2.38	2.57	2.53	2.36	2.23
climate)	Divulciit	Pdh (declared heating cap)	kW	13.7	16.0	18.4	2.57	23.2	2.30	31.0
		Tbiv (bivalent temperature)	°C	13.7	10.0	10.4	-10	23.2	21.7	51.0
	TOL	COPd (declared COP)		2.80	2.28	2.38	2.57	2.53	2.36	2.23
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tol (temperature operating limit)	°C				-10	25.2	2,	51.0
	A Condition	COPd (declared COP)	-	3.06	2.67	2.84	2.94	2.87	2.70	2.60
	(-7°C)	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	2.00
		COPd (declared COP)		3.81	4.23	4.15	3.86	3.93	4.19	3.84
	(2°C)	Pdh (declared heating cap)	kW	7.38	8.62	9.89	11.1	12.5	15.0	16.7
		COPd (declared COP)		5.27	5.70	6.32	6.31	6.21	6.22	5.89
	(7°C)	Pdh (declared heating cap)	kW	4.76	5.54	6.36	7.13	8.03	9.66	10.7
		COPd (declared COP)		7.04	7.92	9.14	6.68	6.04	6.85	7.70
		Pdh (declared heating cap)	kW	4.51	5.46	5.52	5.15	5.07	6.24	7.34

Specifications Specifications 2

2 - 1

	ations			REYA8A	REYA10A	REYA12A	REYA14A	REYA16A	REYA18A	REYA20	
bace heating (Average		COPd (declared COP)		3.00	2.62	2.83	2.95	2.89	2.62	2.54	
imate) recommended	(-7°C)	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	27.5	
ombination 2	B Condition			3.80	4.24	4.26	3.89	3.96	4.07	3.79	
	(2°C)	Pdh (declared heating cap)	kW	7.45	8.61	9.89	11.1	12.5	15.0	16.7	
	C Condition	COPd (declared COP)		5.35	5.79	6.39	6.45	6.41	6.19	5.98	
	(7°C)	Pdh (declared heating cap)	kW	4.76	5.54	6.36	7.14	8.04	9.65	10.7	
		COPd (declared COP)		7.04	7.91	9.39	6.94	6.47	8.15	7.81	
	(12°C)		kW	4.71	5.60	5.80	5.33	5.36	7.68	7.69	
		Pdh (declared heating cap)	KVV								
	TBivalent	COPd (declared COP)		2.73	2.32	2.38	2.58	2.54	2.28	2.18	
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0	
		Tbiv (bivalent temperature)	°C				-10				
	TOL	COPd (declared COP)		2.73	2.32	2.38	2.58	2.54	2.28	2.18	
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0	
pace heating (Average imate) recommended mbination 2	TOL	Tol (temperature operating limit)	°C				-10				
ace heating (Average	A Condition	COPd (declared COP)		3.05	2.68	2.85	2.96	2.88	2.73	2.60	
mate) recommended	(-7°C)	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.8	27.5	
mbination 3		COPd (declared COP)		3.86	4.32	4.24	3.89	3.95	4.25	3.88	
	(2°C)	Pdh (declared heating cap)	kW		8.62	9.89					
			KVV	7.39			11.1	12.5	15.0	16.7	
		COPd (declared COP)		5.35	5.80		43	6.34	6.39	6.07	
	(7°C)	Pdh (declared heating cap)	kW	4.75	5.55	6.36	7.15	8.03	9.66	10.7	
	D Condition	COPd (declared COP)		7.14	8.02	9.37	6.84	6.44	5.48	6.15	
	(12°C)	Pdh (declared heating cap)	kW	4.65	5.56	5.67	5.29	5.32	5.80	5.91	
	TBivalent	COPd (declared COP)		2.78	2.29	2.41	2.58	2.54	2.39	2.24	
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	28.0	31.1	
				l)./	10.0	10.4	1	23.2	20.0	31.1	
	701	Tbiv (bivalent temperature)	°C				-10				
	TOL	COPd (declared COP)		2.78	2.29	2.41	2.58	2.54	2.39	2.24	
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	28.0	31.1	
		Tol (temperature operating limit)	°C				-10				
pacity range			HP	8	10	12	14	16	18	20	
D	Category					1	Category III				
D		News									
	Most critical		0 11		500		Liquid receiver	12	-		
	part	Ps*V	Bar*l		508			12	/	64	
aximum number of con	nectable indo	or units					64 (3)				
door index connection	Min.			100	125	150	175	200	225	250	
	Max.			260	325	390	455	520	585	650	
mensions	Unit	Height	mm				1,685				
		Width	mm		930		.,	1,2	240		
					950		765	1,2	-10		
		Depth	mm								
	Packed unit		mm				1,820				
		Width	mm		995			1,3	805		
		Depth	mm				860				
eight	Unit		kg		213		2	96	3	19	
-	Packed unit		kg	1	224		3	09	3	32	
	Material						Carton		_		
ckina	mactial		kg	-	1.5		curton	1	8		
icking									.8		
	Weight		ĸġ				14/ 1				
	Weight Material						Wood				
acking 2	Weight Material Weight		kg		8.9				.0		
icking 2	Weight Material						Wood Plastic				
icking 2	Weight Material Weight							11			
ucking 2	Weight Material Weight Material Weight		kg		8.9		Plastic	11	1.0		
acking 2 acking 3 asing	Weight Material Weight Material Weight Colour		kg		8.9	Paint	Plastic Daikin White	0	1.0		
cking 2 cking 3 sing sing	Weight Material Weight Material Weight Colour Material		kg		8.9	Paint	Plastic Daikin White red galvanized steel	0	1.0		
acking 2 acking 3 asing asing asing eat exchanger	Weight Material Weight Material Weight Colour Material Type		kg		8.9	Paint	Plastic Daikin White ced galvanized steel Cross fin coil	0	1.0		
cking 2 cking 3 sing sing	Weight Material Weight Material Weight Colour Material Type Indoor side		kg		8.9	Paint	Plastic Daikin White ced galvanized steel Cross fin coil Air	0	1.0		
cking 2 cking 3 sing sing	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side		kg kg		8.9		Plastic Daikin White red galvanized steel Cross fin coil Air Air	11 0 plate	.0		
cking 2 cking 3 sing sing	Weight Material Weight Material Weight Colour Material Type Indoor side		kg	9,145	8.9	Paint 10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air	0	1.0	14,893	
cking 2 cking 3 sing sing	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side		kg kg	9,145	8.9		Plastic Daikin White red galvanized steel Cross fin coil Air Air	11 0 plate 14,315	.0 .7 12,351		
cking 2 cking 3 cing at exchanger	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate	Cooling Rated	kg kg m³/h		8.9 0.6 9,709 9,709	10,823	Plastic Daikin White red galvanized steel Cross fin coil Air Air 11,576	11 0 plate 14,315 14,315	.0 .7 12,351 12,351	14,893 14,893	
cking 2 cking 3 sing at exchanger	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate	Cooling Rated Heating Rated	kg kg m³/h m³/h		8.9 0.6 9,709	10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124	11 0 plate 14,315 14,315	.0 .7 12,351		
cking 2 cking 3 sing at exchanger	Weight Material Weight Material Weight Colour Material Type Indoorside Outdoorside Air flow rate Quantity External	Cooling Rated	kg kg m³/h		8.9 0.6 9,709 9,709	10,823	Plastic Daikin White red galvanized steel Cross fin coil Air Air 11,576	11 0 plate 14,315 14,315	.0 .7 12,351 12,351		
cking 2 cking 3 sing at exchanger	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate Quantity External static	Cooling Rated Heating Rated	kg kg m³/h m³/h		8.9 0.6 9,709 9,709	10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124	11 0 plate 14,315 14,315	.0 .7 12,351 12,351		
cking 2 cking 3 sing sing at exchanger	Weight Material Weight Material Weight Colour Material Type Outdoor side Outdoor side Air flow rate Quantity External static pressure	Cooling Rated Heating Rated	kg kg m³/h m³/h		8.9 0.6 9,709 9,709 1	10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124	11 0 plate 14,315 14,315	.0 .7 12,351 12,351 2		
cking 2 cking 3 sing sing at exchanger	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate Quantity External static	Cooling Rated Heating Rated	kg kg m³/h m³/h		8.9 0.6 9,709 9,709	10,823	Plastic Daikin White eed galvanized steel Cross fin coil Air Air 11,576 13,124 78	11 0 plate 14,315 14,315	.0 .7 12,351 12,351		
cking 2 cking 3 sing sing at exchanger	Weight Material Weight Material Weight Colour Material Type Outdoor side Outdoor side Air flow rate Quantity External static pressure	Cooling Rated Heating Rated	kg kg m³/h m³/h		8.9 0.6 9,709 9,709 1	10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124	11 0 plate 14,315 14,315	.0 .7 12,351 12,351 2		
cking 2 cking 3 sing sing at exchanger	Weight Material Weight Colour Material Type Indoorside Outdoorside Air flow rate Quantity External static pressure Quantity Type	Cooling Rated Heating Rated	kg kg m ³ /h m ³ /h Pa		8.9 0.6 9,709 9,709 1 1	10,823	Plastic Daikin White eed galvanized steel Cross fin coil Air Air 11,576 13,124 78	11 0 plate 14,315 14,315	.0 .7 12,351 12,351 2 2		
cking 2 cking 3 sing at exchanger n	Weight Material Weight Colour Material Weight Colour Material Type Indoor side Outdoor side Air flow rate Quantity External static pressure Quantity Type Output	Cooling Rated Heating Rated	kg kg m³/h m³/h		8.9 0.6 9,709 9,709 1	10,823	Plastic Daikin White ed galvanized steel Cross fin coil Air Air 11,576 13,124 78 DC motor	11 0 plate 14,315 14,315	.0 .7 12,351 12,351 2		
cking 2 cking 3 sing asing at exchanger n n n	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate Quantity External static pressure Quantity Type Output Quantity	Cooling Rated Heating Rated	kg kg m ³ /h m ³ /h Pa		8.9 0.6 9,709 9,709 1 1	10,823 10,823	Plastic Daikin White ed galvanized steel Cross fin coil Air Air 11,576 13,124 78 DC motor 1	11 0 plate 14,315 14,315 : : : : : : : : : : : : : : : : : : :	.0 .7 12,351 12,351 2 2		
cking 2 cking 3 sing sing	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate Quantity External static pressure Quantity Type Output Quantity Type	Cooling Rated Heating Rated Max.	kg kg m ³ /h m ³ /h Pa		8.9 0.6 9,709 9,709 1 1	10,823 10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124 78 DC motor 1 colly sealed scroll co	11 0 plate 14,315 14,315 : : : : : : : : : : : : : : : : : : :	.0 .7 12,351 12,351 2 2		
cking 2 cking 3 sing sing at exchanger n n n	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate Quantity External static pressure Quantity Type Output Quantity	Cooling Rated Heating Rated Max.	kg kg m ³ /h m ³ /h Pa W		8.9 0.6 9,709 9,709 1 1	10,823 10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124 78 DC motor 1 cally sealed scroll co 33	11 0 plate 14,315 14,315 : : : : : : : : : : : : : : : : : : :	.0 .7 12,351 12,351 2 2		
cking 2 cking 3 sing asing at exchanger n n n	Weight Material Weight Material Weight Colour Material Type Indoor side Outdoor side Air flow rate Quantity External static pressure Quantity Type Output Quantity Type	Cooling Rated Heating Rated Max.	kg kg m ³ /h m ³ /h Pa		8.9 0.6 9,709 9,709 1 1	10,823 10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124 78 DC motor 1 colly sealed scroll co	11 0 plate 14,315 14,315 : : : : : : : : : : : : : : : : : : :	.0 .7 12,351 12,351 2 2		
cking 2 cking 3 sing	Weight Material Weight Material Wyight Colour Material Type Indoor side Outdoor side Quantity External static pressure Quantity Type Output Quantity Type Crankcase her	Cooling Rated Heating Rated Max. Max.	kg kg m ³ /h m ³ /h Pa W		8.9 0.6 9,709 9,709 1 1	10,823 10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124 78 DC motor 1 cally sealed scroll co 33 -5	11 0 plate 14,315 14,315 : : : : : : : : : : : : : : : : : : :	.0 .7 12,351 12,351 2 2		
cking 2 cking 3 sing	Weight Material Weight Material Wyight Colour Material Type Indoor side Outdoor side Quantity External static pressure Quantity Type Output Quantity Type Crankcase her	Cooling Rated Heating Rated Max.	kg kg m ³ /h m ³ /h Pa W W		8.9 0.6 9,709 9,709 1 1	10,823 10,823	Plastic Daikin White ced galvanized steel Cross fin coil Air Air 11,576 13,124 78 DC motor 1 cally sealed scroll co 33	11 0 plate 14,315 14,315 : : : : : : : : : : : : : : : : : : :	.0 .7 12,351 12,351 2 2		



2 Specifications

2 - 1 Specifications

Technical Specifi	cations				REYA8A	REYA10A	REYA12A	REYA14A	REYA16A	REYA18A	REYA20					
Sound power level	Cooling	Nom.		dBA	78.3 (4)	78.8 (4)	82.5 (4)	78.7 (4)	83.7 (4)	83.4 (4)	87.9 (4)					
	Heating	Nom.		dBA	79.4 (4)	80.7 (4)	83.3 (4)	82.9 (4)	86.3 (4)	85.1 (4)	89.6 (4)					
Sound pressure level	Cooling	Nom.		dBA	56.3 (5)	58.0 (5)	60.8 (5)	58.1 (5)	61.4 (5)	63.0 (5)	67.0 (5)					
	Heating			dBA	58.1 (5)	58.8 (5)	61.9 (5)	61.3 (5)	64.5 (5)	64.0 (5)	68.0 (5)					
Refrigerant	Туре							R-32								
	GWP							675.0								
	Charge			kg		9.00			10).6						
Refrigerant oil	Туре							FW68DE								
Piping connections	Liquid	Туре						Braze connection								
		OD		mm	9	.52			12.70							
	Gas	Туре						Braze connection								
		OD		mm	19.1 22.2											
	HP/LP gas	Туре						Braze connection								
		OD		mm	15	.90	19.10									
	Total piping length	System	Actual	m	1,000 (6)											
Defrost method								Reversed cycle								
Capacity control	Method				Inverter controlled											
Indication if the heater is	equipped with	a suppleme	entary heater		no											
Supplementary heater	Back-up capacity	Heating	elbu	kW				0.0								
Power consumption in	Crankcase	Cooling	РСК	kW				0.000								
other than active mode	heater mode	Heating	РСК	kW		0.053			0.0)58						
	Off mode	Cooling	POFF	kW		0.050			0.0)58						
		Heating	POFF	kW		0.053			0.0)58						
	Standby	Cooling	PSB	kW		0.050			0.0)58						
	mode Heating PSB kW 0.053 0.058															
	Thermo-	Cooling	PTO	kW		0.001										
	stat-off mode	Heating	РТО	kW		0.053			0.0)58						
Cooling	Cdc (Degrada	tion cooling	J)					0.25								
Heating	Cdh (Degrada							0.25								
Safety devices	ltem	01						High pressure switc	h							
		02					Fan	driver overload prot	ector							
		03						erter overload prote								

Standard accessories: Installation and operation manual: Quantity: 1:

Standard accessories: Connection pipes; Quantity: 1;

Y1 3N~ 50 380-415 Both indoor and outdoor -10 10 15,6 (8) 184' (8) - - - - See note 9	unit 21,0 (8)	27,8 (8)	32,8 (8)							
50 380-415 Both indoor and outdoor -10 10 15,6 (8) 18ł' (8) - - - See note 9		27,8 (8)	32,8 (8)							
380-415 Both indoor and outdoor -10 10 15,6 (8) 18ł' (8) - - - See note 9		27,8 (8)	32,8 (8)							
Both indoor and outdoor -10 10 15,6 (8) 18ł' (8) - - - See note 9		27,8 (8)	32,8 (8)							
-10 10 15,6 (8) 18ł' (8) - - See note 9		27,8 (8)	32,8 (8)							
10 15,6 (8) 18ł' (8) - - See note 9	21,0 (8)	27,8 (8)	32,8 (8)							
15,6 (8) 18ł' (8) - - See note 9	21,0 (8)	27,8 (8)	32,8 (8)							
- - See note 9	21,0 (8)	27,8 (8)	32,8 (8)							
	See note 9									
No requirements										
4,157 (10) 4,676 (10)	5,369 (10)	6,062 (10)	7,274 (10							
24.0 (11) 27.0 (11)	31.0 (11)	35.0 (11)	42.0 (11)							
32 (12)	40 ((12)	50 (12)							
-										
-										
5G										
2										
F1,F2										
33										
 n	24.0 (11) 27.0 (11) 32 (12) - - 5G 2 F1,F2 33	24.0 (11) 27.0 (11) 31.0 (11) 32 (12) 40 (- - - 5G 2 F1,F2 33	24.0 (11) 27.0 (11) 31.0 (11) 35.0 (11) 32 (12) 40 (12) - - 5G 2 F1,F2 33							

Specifications 2

2 - 1 Specifications

(10)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply wih Ssc ≥ minimum Ssc value | (11)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. | (12)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

(13)Maximum allowable voltage range variation between phases is 2%. |

(14)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. | (15)Sound values are measured in a semi-anechoic room. |

(16)EV/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase | (17)Ssc: Short-circuit power | (18)For detailed contents of standard accessories, see installation/operation manual |

(19)Multi combination (10~28HP) data is corresponding with the standard multi combination

Technical specific					1	REYA13A	REYA16A		REYA20A	REYA22A	REYA24A		REYA28A
System	Outdoor uni					AA5A		REYA8A	1	REYA10A	REYA8A		A12A
	Outdoor uni	t module 2			REMA5A		(A8A	REYA10A		'A12A	REYA16A	REYA14A	REYA16A
Recommended combinat	tion				4 x	3 x	4 x	4 x	10 x	бх	4 x	7 x	бх
					FXFA63A2VEB				FXFA50A2VEB		FXFA50A2VEB		
						+ 3 x	+ 2 x	+ 4 x		+ 4 x	+ 4 x	+ 5 x	+ 4 x
						FXFA63A2VEB	FXFA80A2VEB	FXFA63A2VEB		FXFA63A2VEB	FXFA63A2VEB	FXFA63A2VEB	
											+2x		+2x
D						2			10	-	FXFA80A2VEB	7	FXFA80A2VEB
Recommended combinat	LION Z				4 x	3 X	4 X			6 X	4 x FXSA50A2VEB		6 X
					FASROSAZVED	+3 x	+2 x	+ 4 x	FASAJUAZVLD	+4x	+ 4 x	+ 5 x	+ 4 x
							FXSA80A2VEB				FXSA63A2VEB		
						TASAOSAZYED	TASKOUNZVED	TAJAOJAZVED		TASAOSAZYED	+2x	TASAUSAZYED	+2x
											FXSA80A2VEB		FXSA80A2VEB
Recommended combinat	tion 3				4 x FXMA63A5VEB	3 x FXMA50A5VEB + 3 x	4 x FXMA63A5VEB + 2 x	4 x FXMA50A5VEB + 4 x	10 x FXMA50A5VEB	6 x FXMA50A5VEB + 4 x		7 x FXMA50A5VEB + 5 x	
						FXMA50A5VEB	FXMA80A5VEB	FXMA63A5VEB		FXMA63A5VEB	x FXMA63A5VEB + 2 x	FXMA63A5VEB	x FXMA63A5VEB + 2 x
											FXMA80A5VEB		FXMA80A5VEB
Continuous heating									Yes				
Cooling capacity	Prated,c			kW	28.0 (1)	36.4 (1)	44.8 (1)	50.4 (1)	55.9 (1)	61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)
Heating capacity	Nom.	6°CWB		kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)
	Prated,h			kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)
	Max.	6°CWB		kW	32.0 (2)	41.0 (2)	50.0 (2)	56.5 (2)	62.5 (2)	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)
Power input - 50Hz	Heating	Nom.	6°CWB	kW	7.66 (2)	9.69 (2)	12.05 (2)	13.97 (2)	15.54 (2)	17.80 (2)	18.63 (2)	20.89 (2)	22.46 (2)
COP at nom. capacity	6°CWB			kW/kW	3.66 (2)	3.76 (2)	3.72 (2)	3.61 (2)	3.60 (2)	3.46 (2)	3.62 (2)	3.52 (2)	3.49 (2)
SCOP					4.09	4.11	4.35	4.34	4.38	4.41	4.20	4.38	4.36
SCOP recommended com	bination 2				4.14	4.19	4.38	4.40	4.48	4.45	4.24	4.44	4.43
SCOP recommended com	bination 3				4.16	4.22	4.37	4.46	4.50	4.48	4.25	4.44	4.43
SEER					7.62	7.49	7.40	7.26	7.27	7.17	7.16	7.48	7.15
SEER recommended com	bination 2				7.30	7.15	6.93	6.95	6.94	6.88	7.01	7.23	6.96
SEER recommended com	bination 3				7.61	7.57	7.31	7.30	7.48	7.28	7.29	7.61	7.26
ηs,c				%	301.9	296.5	293.0	287.5	287.6	283.6	283.4	296.2	282.8
ηs,c recommended comb	pination 2			%	289.0	282.9	274.2	275.2	274.8	272.1	277.3	286.4	275.6
ηs,c recommended comb	vination 3			%	301.2	299.8	289.4	288.9	296.1	288.2	288.7	301.3	287.4
ηs,h				%	160.6	161.5	170.9	170.5	172.2	173.3	165.2	172.0	171.5
ηs,c recommended comb						1			-		1	1	
ηs,h recommended comb				%	162.5	164.8	172.2	173.2	176.4	175.1	166.6	174.4	174.3
ηs,h recommended comb				%	163.4	165.8	171.8	175.4	177.0	176.3	167.1	174.5	174.0
Space cooling	A Condition				3.81	3.46	3.25	3.26	3.24	3.25	3.24	3.25	3.23
	(35°C - 27/19			kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
	B Condition				7.73	6.08	5.41	5.18	4.89		.78	4.77	4.59
	(30°C - 27/19			kW	20.6	26.8	33.0	37.1	41.2	45.3	49.7	54.2	57.8
	C Condition			1.147	8.99	9.04	9.11	8.76	8.70	8.47	8.52	8.61	8.33
	(25°C - 27/19			kW	13.5	18.0	21.2	23.9	26.5	29.1	31.9	34.8	37.2
	D Condition			LW	11.5	13.9		5.0	16.4	16.2	16.0	20.1	17.1
Space cooling rocom	(20°C - 27/19 A Condition			kW	14.1 3.67	15.5 3.36	15.9 3.14	16.3 3.23	16.7 3.09	16.8 3.10	19.2 3.11	19.5 3.12	19.7 3.03
Space cooling recom- mended combination 2	(35°C - 27/19			kW	28.0	3.30	44.8	50.4	55.9	61.5	67.4	73.5	78.5
	-			K VV	-								
	B Condition (30°C - 27/19				7.32	5.78	5.00	4.94	4.75	4.67	4.78	4.71	4.60
Space cooling recom-	B Condition			kW	20.6	26.8	33.0	37.1	41.2	45.3	49.7	54.2	57.8
mended combination 2	(30°C - 27/19				20.0	20.0	55.0	57.1	11.2			5 1.2	57.0
	C Condition				8.54	8.53	8.36	8.27	8.17	8.00	8.25	8.17	8.04
	(25°C - 27/19			kW	13.3	17.8	21.2	23.9	26.5	29.1	31.9	34.8	37.2
	D Condition			KII	11.1	13.3	-	4.3	15.7	15.4	15.6	19.3	16.7
	(20°C - 27/19			kW	13.7	15.0	15.5	15.8	16.0	16.2	18.6	18.8	19.0
Space cooling recom-	A Condition				3.71	3.41	3.18	3.25	3.27	3.25	3.13	3.27	3.12
mended combination 3	(35°C - 27/19			kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
	B Condition				7.71	6.12	5.24	5.08	5.04	4.79	4.94	4.82	4.66
	(30°C - 27/19			kW	20.6	26.8	33.0	37.1	41.2	45.3	49.7	54.1	57.8
	C Condition				8.99	9.22	9.04	8.94	9.03	8.71	8.77	8.83	8.64
	(25°C - 27/19			kW	13.5	18.1	21.2	23.9	26.5	29.1	31.9	34.8	37.2
	D Condition				11.6	14.2	15.2	15.4	16.9	16.6	16.2	20.5	17.5
	(20°C - 27/19			kW	14.1	15.5	15.2	16.3	16.7	16.6	18.9	19.4	19.3
	(20 2 27/1)	, 140			1 (7.1	13.5	10.0	10.0	10.7	10.0	10.7	7.7	17.5

2

2Specifications2-1Specifications

Technical specific				REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	REYA22A	REYA24A	REYA26A	REYA28
Space heating (Average	TBivalent	COPd (declared COP)		2.69	2.74	2.87	2.51	2.55	2.33	2.62	2.48	2.46
climate)		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6
	TOI	Tbiv (bivalent temperature)	°C	2.0	2.74	2.07	2.51	-10	2.22	2.62	2.40	246
	TOL	COPd (declared COP) Pdh (declared heating cap)	kW	2.69	2.74 21.7	2.87 23.2	2.51 27.9	2.55	2.33 34.4	2.62	2.48	2.46 41.6
		Tol (temperature operating limit)	°C	10.0	21./	23.2	21.9	-10	34.4	30.9	37.0	41.0
	A Condition	COPd (declared COP)		3.00	3.03	3.18	2.87	2.95	2.76	2.94	2.89	2.85
	(-7°C)	Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.4	30.4	32.6	34.5	36.8
	B Condition	COPd (declared COP)		4.37	4.02	4.17	4.20	4.09	4.19	3.89	3.99	4.03
	(2°C)	Pdh (declared heating cap)	kW	8.60	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4
	C Condition	COPd (declared COP)		4.70	5.11	5.45	5.60	5.90	6.02	5.82	6.32	6.26
	(7°C)	Pdh (declared heating cap)	kW	7.17	8.40	8.05	9.66	10.7	11.9	12.8	13.5	14.4
	D Condition	COPd (declared COP)		5.57	6.47	6.93	7.49	8.06	8.49	6.47	7.76	7.33
	(12°C)	Pdh (declared heating cap)	kW	8.74	8.93	9.04	9.97	10.0	11.0	9.58	10.7	10.6
Space heating (Average	A Condition	COPd (declared COP)		3.02	3.05	3.18	2.86	2.96	2.73	2.93	2.89	2.86
climate) recommended	(-7°C)	Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.4	30.4	32.6	34.5	36.8
combination 2	B Condition	COPd (declared COP)		4.43	4.12	4.18	4.27	4.21	4.25	3.90	4.06	4.09
	(2°C)	Pdh (declared heating cap)	kW	8.64	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4
	C Condition	COPd (declared COP)		4.76	5.24	5.57	5.78	6.07	6.10	5.97	6.42	6.40
	(7°C)	Pdh (declared heating cap)	kW	7.31	8.54	8.08	9.65	10.7	11.9	12.8	13.5	14.4
	D Condition	COPd (declared COP)	1144	5.62	6.58	6.97	7.59	8.30	8.60	6.72	8.03	7.72
	(12°C)	Pdh (declared heating cap)	kW	8.87	9.17	9.24	10.3	10.5	11.4	10.1	11.1	11.2
	TBivalent	COPd (declared COP)	1.147	2.70	2.26	2.38	2.27	2.34	2.26	2.17	2.24	2.20
C	TDivelant	Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6
Space heating (Average climate) recommended	TBivalent	Tbiv (bivalent temperature)	°C	2.70	2.20	2.20	2.27	-10	2.20	2.17	2.24	2 20
combination 2	TOL	COPd (declared COP)	kW	2.70	2.26	2.38	2.27 27.9	2.34 31.0	2.26	2.17 36.9	2.24 39.0	2.20
		Pdh (declared heating cap) Tol (temperature operating limit)	°C	10.0	21./	23.2	27.9	-10	34.4	30.9	39.0	41.0
Space heating (Average	A Condition	COPd (declared COP)	L.	3.03	3.07	3.17	2.91	2.99	2.77	2.95	2.91	2.87
climate) recommended	(-7°C)	Pdh (declared heating cap)	kW	14.2	19.2	20.5	2.91	2.99	30.5	32.7	34.6	36.9
combination 3	B Condition	COPd (declared COP)	N YY	4.48	4.14	4.19	4.35	4.22	4.28	3.92	4.05	4.08
	(2°C)	Pdh (declared heating cap)	kW	8.61	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4
		COPd (declared COP)	KII	4.76	5.25	5.52	5.77	6.07	6.12	5.93	6.43	6.38
	(7°C)	Pdh (declared heating cap)	kW	7.28	8.49	8.04	9.67	10.7	11.9	12.8	13.5	14.4
	D Condition	COPd (declared COP)		5.62	6.64	6.94	7.69	8.32	8.65	6.75	7.95	7.68
	(12°C)	Pdh (declared heating cap)	kW	8.85	9.13	9.17	10.2	10.3	11.2	9.97	11	1.0
	TBivalent	COPd (declared COP)		2.71	2.78	2.86	2.53	2.59	2.35	2.62	2.50	2.48
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6
		Tbiv (bivalent temperature)	°C					-10				
	TOL	COPd (declared COP)		2.71	2.78	2.86	2.53	2.59	2.35	2.62	2.50	2.48
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6
		Tol (temperature operating limit)	°C					-10				
Capacity range			HP	10	13	16	18	20	22	24	26	28
PED	Category							Category III				
Maximum number of con		or units						64 (3)				
ndoor index connection				125	163	200	225	250	275	300	325	350
	Max.			325	423	520	585	650	715	780	845	910
Heat exchanger	Indoor side							Air				
	Outdoor side		34		10 200 (11)		10.054 (11)	Air	20 522 (11)	22.460.(11)	22 200 (11)	25 120 (1
	Air flow rate		m ³ /h		18,290 (11)		18,854 (11)	19,968 (11)	20,532 (11)	23,460 (11)	22,399 (11)	25,138 (1 25,138 (1
Sound now or lovel	Cooling	Heating Rated	m³/h		18,290 (11)		18,854 (11) 81.6 (4)	19,968 (11) 83 9 (4)	20,532 (11)	23,460 (11)	23,947 (11)	, ,
Sound power level	Cooling	Nom.	dBA dBA		81.3 (4)		81.6 (4)	83.9 (4)	84.0 (4) 85.2 (4)	84.8 (4)	84.0 (4)	86.2 (4)
Sound pressure level	Heating Cooling	Nom. Nom.	dBA		82.4 (4) 59.3 (5)		83.1 (4) 60.2 (5)	84.8 (4) 62.1 (5)		87.1 (4) 6 (5)	86.1 (4) 62.7 (5)	88.1 (4) 64.1 (5)
sound pressure level	Heating	noill.	dBA		61.1 (5)		61.5 (5)	63.4 (5)	63.6 (5)	65.4 (5)	64.6 (5)	66.4 (5)
Refrigerant	Туре		чэл		JII (J)		(1) (3)	R-32	55.0 (J)	JJ.T (J)	JT.U (J)	U. + (J)
nenigerunt	GWP							675.0				
Refrigerant oil	Туре							FW68DE				
Piping connections	Liquid	Туре					-	Braze connectio	n			
		OD OD	mm	9.52				.70			15	.90
	Gas	Туре						Braze connectio	n			-
Piping connections	Gas	OD OD	mm	19.1		22.2				28.6		
	HP/LP gas	Туре						Braze connectio	n			
	J * *	0D	mm	15.90		19.10				22.20		
	Total piping		m			500 (6)					0 (6)	
	length									.,		
Defrost method								Reversed cycle				
Capacity control	Method						Ir	verter controll				
ndication if the heater is	equipped with	a supplementary heater						no				
Supplementary heater	Back-up	Heating elbu	kW					0.0				
Supplemental y neater												

2Specifications2-1Specifications

Technical specific	ations Sys	stem			REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	REYA22A	REYA24A	REYA26A	REYA28A		
Power consumption in	Crankcase	Cooling	PCK	kW		0.000									
other than active mode	heater	Heating	PCK	kW				0.111							
	mode														
	Off mode	Cooling	POFF	kW			0.1	0.108							
		Heating	POFF	kW			0.1								
	Standby	Cooling	PSB	kW			0.1	00							
	mode	Heating	PSB	kW			0.1	06							
	Thermo-	Cooling	PT0	kW					0.002						
	stat-off	Heating	PTO	kW			0.1	06			0.121	0.111	0.121		
	mode														
Cooling	Cdc (Degrad	ation cooling)						0.25						
Heating	Cdh (Degrad	lation heating	g)		0.25										

Electrical specif	ications Sy	stem			REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	REYA22A	REYA24A	REYA26A	REYA28A
Power supply	Name								Y1				
	Phase								3N~				
	Frequency			Hz					50				
	Voltage			V					380-415				
Power supply intake								Both ir	door and outd	oor unit			
Voltage range	Min.			%					-10				
	Max.			%					10				
Current - 50Hz	Nominal	Cooling		Α	11,2 (8)	16,0 (8)	20,9 (8)	23,4 (8)	26,1(8)	28,6 (8)	31,5 (8)	34,1(8)	36,7 (8)
	running	Combina-	Cooling						-				
	current	tion A											
	(RLA)	Combina-	Cooling						-				
		tion B											
	Starting cu	rrent (MSC) - r	emark						See note 9				
	Zmax	List							No requirement	S			
	Minimum S	sc value		kVa	5,196 (10)	5,387 (10)	5,577 (10)	6,599 (10)	6,945 (10)	7,967 (10)	8,158 (10)	8,833 (10)	9,526 (10)
	Minimum c	ircuit amps (M	ICA)	A	30.0 (11)	31.1 (11)	32.2 (11)	38.1(11)	40.1(11)	46.0 (11)	47.1(11)	51.0 (11)	55.0 (11)
	Maximum f	fuse amps (MF	A)	A		40 (12)		50	(12)		63	(12)	
Power Performance	Power facto	or Combina-	35°C ISO - Full load						-				
		tion B	46°C ISO - Full load						-				
Wiring connections	For power	Quantity							5G				
- 50Hz	supply												
	For connec-	Quantity							2				
	tion with	Remark							F1,F2				
	indoor												

Technical specific	ations Mo	dule			REMA5A
Cooling capacity	Prated,c			kW	14.0 (1)
Heating capacity	Max.	6°CWB		kW	16.0 (2)
ηs,c recommended comb	nation 2				
Capacity range				HP	5
PED	Category				Category III
	Most critical	Name			Liquid receiver
	part	Ps*V		Bar*l	508
Maximum number of con	nectable indo	or units			64 (3)
Indoor index connection	Min.				63
	Max.				163
Dimensions	Unit	Height		mm	1,685
		Width		mm	930
		Depth		mm	765
	Packed unit	Height		mm	1,820
		Width		mm	995
		Depth		mm	860
Weight	Unit			kg	213
	Packed unit			kg	224
Packing	Material				Carton
	Weight			kg	1.5
Packing 2	Material				Wood
	Weight			kg	8.9
Packing 3	Material				Plastic
	Weight			kg	0.6
Casing	Colour				Daikin White
	Material				Painted galvanized steel plate
Heat exchanger	Туре				Cross fin coil
	Indoor side				Air
	Outdoor side				Air
	Air flow rate	Cooling	Rated	m³/h	9,145
		Heating	Rated	m³/h	9,145

Specifications 2

2 - 1 Specifications

Technical specif		aule		1	REMA5A
Fan	Quantity				1
	External	Max.		Pa	78
	static				
	pressure				
an motor	Quantity				1
	Туре				DC motor
	Output			W	550
ompressor	Quantity				1
	Туре				Hermetically sealed scroll compressor
	Crankcase h	eater		W	33
peration range	Cooling	Min.		°CDB	-5
		Max.		°CDB	46
	Heating	Min.		°CWB	-20
		Max.		°CWB	16
ound power level	Cooling	Nom.		dBA	78.3 (4)
	Heating	Nom.		dBA	79.4 (4)
ound pressure level	Cooling	Nom.		dBA	56.3 (5)
	Heating			dBA	58.1 (5)
efrigerant	Туре				R-32
	GWP				675.0
	Charge			kg	9.00
efrigerant oil	Type			ny	FW68DE
		Tuno			
iping connections	Liquid	Type OD			Braze connection 9.52
	6			mm	
	Gas	Туре			Braze connection
		OD		mm	19.1
	HP/LP gas	Туре			Braze connection
		OD		mm	15.90
efrost method					Reversed cycle
apacity control	Method				Inverter controlled
afety devices	ltem	01			High pressure switch
		02			Fan driver overload protector
		03			Inverter overload protector
Electrical specif	fications Mo	dule			REMASA
Power supply	Name				Y1
	Phase				3N~
	Frequency			Hz	50
	Voltage			V	380-415
ower supply intake					Both indoor and outdoor unit
/oltage range	Min.			%	-10
5 5	Max.			%	10
urrent - 50Hz	Nominal	Cooling		A	
urrent - 50Hz	Nominal	Cooling Combina-	Cooling	A	5,6 (8)
Current - 50Hz	running	Combina-	Cooling	A	5,0 (0) -
urrent - 50Hz	running current	Combina- tion A		A	
urrent - 50Hz	running	Combina- tion A Combina-	Cooling Cooling	A	
urrent - 50Hz	running current (RLA)	Combina- tion A Combina- tion B	Cooling	A	- -
urrent - 50Hz	running current (RLA) Starting cur	Combina- tion A Combina- tion B rrent (MSC) - re	Cooling	A	- - See note 9
urrent - 50Hz	running current (RLA) Starting cur Zmax	Combina- tion A Combina- tion B rrent (MSC) - re List	Cooling		- - See note 9 No requirements
urrent - 50Hz	running current (RLA) Starting cur Zmax Minimum St	Combina- tion A Combina- tion B rrent (MSC) - re List sc value	Cooling emark	kVa	- - See note 9 No requirements 2,598 (10)
urrent - 50Hz	running current (RLA) <u>Starting cur</u> Zmax <u>Minimum S</u> Minimum ci	Combina- tion A Combina- tion B rrent (MSC) - re List sc value ircuit amps (M	Cooling emark ICA)	kVa A	- - - - - No requirements 2,598 (10) 15.0 (11)
	running current (RLA) Starting cur Zmax Minimum S: Minimum ci Maximum fi	Combina- tion A Combina- tion B rrent (MSC) - re List sc value ircuit amps (MF/ use amps (MF/	Cooling emark ICA) A)	kVa	- - - - - - - - - - - - - - - - - - -
	running current (RLA) Starting cur Zmax Minimum S: Minimum ci Maximum fi	Combina- tion A Combina- tion B rrent (MSC) - re List sc value ircuit amps (M use amps (MF/ use amps (MF/ rr Combina-	Cooling emark ICA) A) 35°C ISO - Full Ioad	kVa A	- - - - - - - - - - - - - - - - - - -
ower Performance	running current (RLA) Starting cur Zmax Minimum Si Maximum fi Power facto	Combina- tion A Combina- tion B rrent (MSC) - ru List sc value ircuit amps (MF/ use amps (MF/ or Combina- tion B	Cooling emark ICA) A)	kVa A	No requirements 2,598 (10) 15.0 (11) 20 (12)
ower Performance Viring connections	running current (RLA) Starting cur Zmax Minimum Si Minimum fi Maximum fi Power facto	Combina- tion A Combina- tion B rrent (MSC) - re List sc value ircuit amps (M use amps (MF/ use amps (MF/ rr Combina-	Cooling emark ICA) A) 35°C ISO - Full Ioad	kVa A	- - - - - - - - - - - - - - - - - - -
ower Performance Viring connections	running current (RLA) Starting cur Zmax Minimum S: Minimum Ci Maximum fr Power facto For power supply	Combina- tion A Combina- tion B rent (MSC) - re List sc value ircuit amps (M use amps (MF/ or Combina- tion B Quantity	Cooling emark ICA) A) 35°C ISO - Full Ioad	kVa A	
Power Performance Viring connections	running current (RLA) Starting cur Zmax Minimum Si Minimum fi Maximum fi Power facto	Combina- tion A Combina- tion B rent (MSC) - re List sc value ircuit amps (M use amps (MF/ or Combina- tion B Quantity	Cooling emark ICA) A) 35°C ISO - Full Ioad	kVa A	No requirements 2,598 (10) 15.0 (11) 20 (12)
2urrent - 50Hz Power Performance Viring connections 50Hz	running current (RLA) Starting cur Zmax Minimum S: Minimum Ci Maximum fr Power facto For power supply	Combina- tion A Combina- tion B rent (MSC) - re List sc value ircuit amps (M use amps (MF/ or Combina- tion B Quantity	Cooling emark ICA) A) 35°C ISO - Full Ioad	kVa A	
Power Performance Viring connections	running current (RLA) Starting cur Zmax Minimum S: Minimum Ci Maximum fr Power facto For power supply For connec-	Combina- tion A Combina- tion B rent (MSC) - rr List scc value scc value amps (MF use amps (MF use amps (MF rr Combina- tion B Quantity Quantity	Cooling emark ICA) A) 35°C ISO - Full Ioad	kVa A	

(1) Cooling: indoor temp. 2/°CDB; 9°CWB; outdoor temp. 3°CDB; equivalent piping length: /.5m; level difference: 0m |
 (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |
 (3) The actual number of units depends on the connection ratio (CR) and the restrictions for the system. |
 (4) Air Flow Rate (AFR) of multi outdoor systems is sum of AFR of the individual systems it consists of |
 (5) Sound power level is an absolute value that a sound source generates. |

(6)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. | (7)Refer to refrigerant pipe selection or installation manual |

(9)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |

(10)In accordance with EN/EC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply wih Ssc \geq minimum Ssc value | (11)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. | (12)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

(13)Maximum allowable voltage range variation between phases is 2%. | (14)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

(15)Sound values are measured in a semi-anechoic room.

Specifications 2

Specifications 2 - 1

(16)EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and \leq 75A per phase | (17)Ssc: Short-circuit power | (18)For detailed contents of standard accessories, see installation/operation manual | (19)Multi combination (10~28HP) data is corresponding with the standard multi combination

3 Options

3 - 1 Options

REYA-A REMA5A

VRV V R32 models

Heat recovery Option list

				F	REYA*A*	k			REMA*A*	
Description	Option	8	10	12	14	16	18	20	5	Multi ·2· unit
Low ambient option	EKBPH012T	0	0	0	-	-	-	-	0	O (*1)
Bottom plate heater	EKBPH020T	-	-	-	0	0	0	0	-	O (*1)
Demand adaptor kit (*3)	DTA104A*	0	0	0	O (*2)	O (*2)	O (*2)	O (*2)	0	0
External control adapter (*3)	DTA109A51*	0	0	0	O (*2)	O (*2)	O (*2)	O (*2)	0	0
	KHRQ23M29H	0	0	0	0	0	0	0	0	0
Refnet header	KHRQ23M64H	-	-	0	0	0	0	0	-	0
	KHRQ23M75H	-	-	-	-	-	-	-	-	0
	KHRQ23M20T	0	0	0	0	0	0	0	0	0
Defecticiet	KHRQ23M29T	0	0	0	0	0	0	0	0	0
Refnet joint	KHRQ23M64T	-	-	0	0	0	0	0	-	0
	KHRQ23M75T	-	-	-	-	-	-	-	-	0
Refrigerant branch kit	BHFQ23P907A	-	-	-	-	-	-	-	-	0

*1 ·1· option kits are required per unit.

*2 These options require mounting plate ·EKSB26B1·.

*3 Because both adaptor PCBs have the same installation location, it is only possible to install either ·DTA104A· or ·DTA109A51·.

3D141187A

Combination table 4

4 - 1 Combination Table

REYA-A REMA5A

VRV5

Heat recovery

Multi-unit standard combinations table

		БНР	внр	10HP	12HP	14HP	16HP	18HP	20HP
	REMA5* (*1)	1							
s	REYA8*	_	1						
Non-continuous heating	REYA10*			1					
-continu heating	REYA12*				1				
ati	REYA14*					1			
р Ч	REYA16*						1		
No 1	REYA18*							1	
z	REYA20*								1
b0	REYA10*	2							
ts in	REYA13* REYA16* REYA18* REYA20* REYA22* REYA24*	1	1						
eat	REYA16*		2						
L n	REYA18*		1	1					
l su op	REYA20*		1		1				
ti n	REYA22*			1	1				
o <u>ti</u>			1				1		
Continuous heating ·2· outdoor units	REYA26*				1	1			
Ľ	REYA28*				1		1		

Notes

1. The •REMA5*• unit cannot be used as a standalone unit and may only be used in standard combinations.

- 2. Standard and free combinations have different piping restrictions.
- 3. Never combine more than .2. units to create a multi-combination.

4D138289

REYA-A

REMA5A

Unit combination restrictions: ·VRV5· outdoor units (all models) + ·10 / 15·-class indoor units

Indoor unit in the system					
FXDA10A	FXZA15A and/or FXAA15A				
Yes	Yes				

1. In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) ≤ ·85·%: no special restrictions. Follow the restrictions that apply to regular ·VRV DX· indoor units.

- In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) > 2. ·85·%: special restrictions apply.
 - When the connection ratio (\cdot CR1 \cdot) of the sum of all \cdot FXDA10A \cdot units in the system $\leq \cdot$ 65 \cdot %, and ALL other \cdot VRV Α. DX-indoor units have an individual capacity class > \cdot 50 \cdot : no special restrictions.
 - Β. When the connection ratio (\cdot CR1 \cdot) of the sum of all \cdot FXDA10A \cdot units in the system $\leq \cdot$ 65 \cdot %, and NOT ALL other ·VRV DX·indoor units have an individual capacity class > ·50·: the restrictions below apply.

° 85% < CR ≤ 95% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·65·%.
° 95% < CR ≤ 100% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·55·%.
° 100% < CR ≤ 105% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·40·%.
° 105% < CR ≤ 130% ->	·FXDA10A· cannot be used

Remark

Only the 10 / 15-class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular ·VRV DX· indoor units.

4D141206

4 Combination table

4 - 1 Combination Table

REYA-A REMA5A

4

Unit combination restrictions: ·VRV5· outdoor units (all models) + ·10 / 15·-class indoor units

Indoor unit in the system						
FXDA10A FXZA15A and/or FXAA15A						
Yes	No					

1. In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) ≤ ·85·%: no special restrictions.

Follow the restrictions that apply to regular $\cdot VRV$ DX \cdot indoor units.

- 2. In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) > ·85·%: special restrictions apply.
 - A. When the connection ratio (·CR1·) of the sum of all ·FXDA10A· units in the system \leq ·65·%, and ALL other ·VRV DX·indoor units have an individual capacity class > ·50·: no special restrictions.
 - B. When the connection ratio (·CR1·) of the sum of all ·FXDA10A· units in the system ≤ ·65·%, and NOT ALL other ·VRV DX·indoor units have an individual capacity class > ·50·: the restrictions below apply.

° 85% < CR ≤ 95% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be $\leq \cdot 65 \cdot \%$.
° 95% < CR ≤ 100% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·55·%.
° 100% < CR ≤ 105% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·40·%.
° 105% < CR ≤ 110% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·30·%.
° 110% < CR ≤ 115% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·20·%.
° 115% < CR ≤ 120% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·10·%.
° 120% < CR ≤ 125% ->	·CR1· of the sum of all ·FXDA10A· indoor units in the system must be $\leq \cdot 5 \cdot \%$.
° 125% < CR ≤ 130% ->	·FXDA10A· cannot be used

Remark

Only the $\cdot 10 / 15$ -class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular $\cdot VRV DX$ - indoor units.

4D141206

REYA-A REMA5A

Unit combination restrictions: ·VRV5· outdoor units (all models) + ·10 / 15·-class indoor units

Indoor unit in the system					
FXDA10A FXZA15A and/or FXAA15A					
No	Yes				

1. In case the system contains the indoor units situation which as shown in the table above, and the total connection ratio ($\cdot CR \cdot$) $\leq \cdot 100 \cdot \%$: no special restrictions.

Follow the restrictions that apply to regular ·VRV DX· indoor units.

- 2. In case the system contains the indoor units situation which as shown in the table above, and the total connection ratio (·CR·) > ·100·%: special restrictions apply.
 - A. When the connection ratio (·CR1·) of the sum of all ·FXZA15A· and/or ·FXAA15A· units in the system ≤ ·70·%, and ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: no special restrictions.
 - B. When the connection ratio (·CR1·) of the sum of all ·FXZA15A· and/or ·FXAA15A· units in the system ≤ ·70·%, and NOT ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: the restrictions below apply.
 - $^{\circ}$ 100% < CR \leq 105% -> \cdot CR1 \cdot of the sum of all \cdot FXZA15A \cdot and/or \cdot FXAA15A \cdot indoor units in the system must be $\leq \cdot$ 70 \cdot %.
 - ° 105% < CR ≤ 110% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ \cdot 60·%.
 - ° 110% < CR ≤ 115% -> CR1• of the sum of all •FXZA15A• and/or •FXAA15A• indoor units in the system must be ≤ •40 %.
 - ° 115% < CR ≤ 120% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ \cdot 25·%.
 - ° 120% < CR ≤ 125% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ ·10·%. ° 125% < CR ≤ 130% -> ·FXZA15A· and ·FXAA15A· cannot be used.

Remark

Only the $\cdot 10 / 15$ -class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular $\cdot VRV DX$ - indoor units.

4D141206

4 Combination table

4 - 1 Combination Table

REYA-A REMA5A

Recommended indoor units for ·REYA*A* + REMA5A*· outdoor units

 НР	8	10	12	13	14	16	18	20
	4xFXSA50	4xFXSA63	6xFXSA50	3xFXSA50 3XFXSA63	1xFXSA50 5XFXSA63	4XFXSA63 2xFXSA80	3xFXSA50 5XFXSA63	8xFXSA63

For multi outdoor units ·>16HP·, the recommended amount of indoor units is the sum of the indoor units defined for a single outdoor unit.

For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·REYA*A* + REMA5A*· outdoor units

Covered by ·ENER LOT21·

FXFA20-25-32-40-50-63-80-100-125 FXZA15-20-25-32-40-50 FXSA15-20-25-32-40-50-63-80-100-125-140 FXDA10-15-20-25-32-40-50-63 FXAA15-20-25-32-40-50-63 FXMA50-63-80-100-125-200-250 FXHA32-50-63-100 FXUA50-71-100

Outside the scope of •ENER LOT21•

EKVDX32-50-80-100

4D138288A

5 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

<u>Capacity table database</u>: lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
 You can access the capacity table viewer here:

https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



 An overview of <u>all software tools</u> that we offer can be found here: <u>https://my.daikin.eu/denv/en_US/home/applications/software-finder.html</u>



5 - 2 Integrated Heating Capacity Correction Factor

REYA-A

REMA5A

VRV5

Heat recovery

In	Integrated heating capacity coefficient										
	Inlet air tempe	erature c	of heat e	xchang	er						
	[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6			
	Integrated correction factor for frost accumulation \cdot (C) \cdot										
tion	8HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00			
allat	10HP	0,90	0,88	0,82	0,75	0,76	0,83	1,00			
inst	12HP	0,90	0,87	0,82	0,71	0,72	0,81	1,00			
'n	14HP	0,90	0,87	0,81	0,68	0,69	0,80	1,00			
For single unit installation	16HP	0,90	0,87	0,81	0,68	0,68	0,79	1,00			
	18HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00			
	20HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00			
	10HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00			
ы	13HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00			
llati	16HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00			
nsta	18HP	0,90	0,88	0,83	0,77	0,78	0,84	1,00			
niti	20HP	0,90	0,88	0,83	0,75	0,76	0,83	1,00			
lti-u	22HP	0,90	0,88	0,82	0,73	0,74	0,82	1,00			
For multi-unit installation	24HP	0,90	0,88	0,82	0,74	0,74	0,82	1,00			
Б	26HP	0,90	0,87	0,82	0,70	0,71	0,80	1,00			
	28HP	0,90	0,87	0,82	0,70	0,70	0,80	1,00			

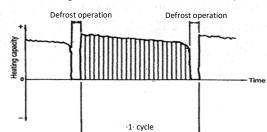
The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.

The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

Formula A = B * C

- A= Integrated heating capacity
- B= Capacity characteristics value

C= Integrated correction factor for frost accumulation (see table)



Notes

1. The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

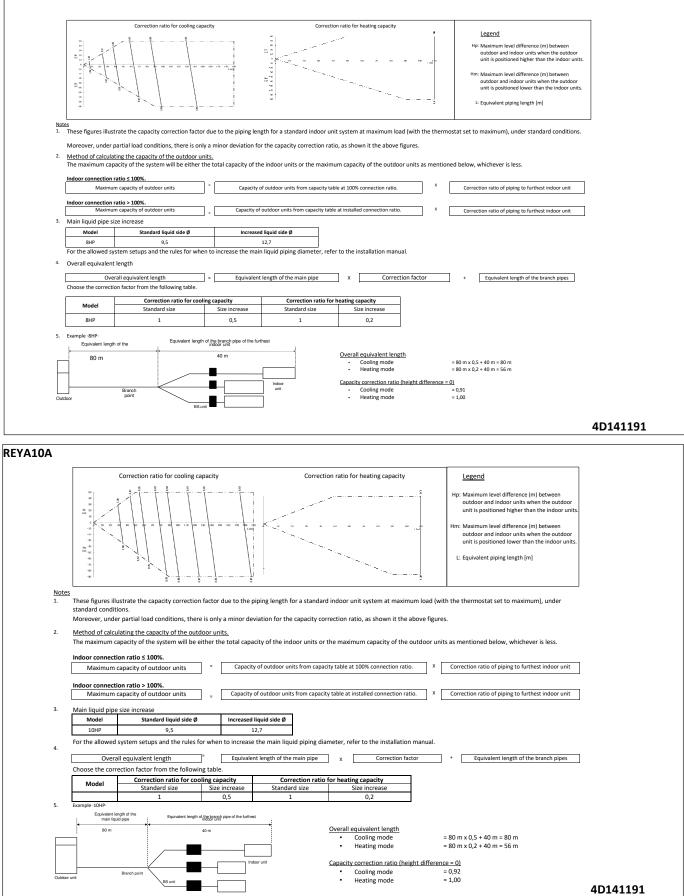
2. When there is an accumulation of snow against the outdoor unit heat exchanger, there will always be a temporary reduction in capacity depending on the outdoor temperature (°C DB), relative humidity (RH) and the amount of frosting which occurs.

3. The multi-combination data VRV4· corresponds with the standard multi-combination of drawing ·4D138289·.

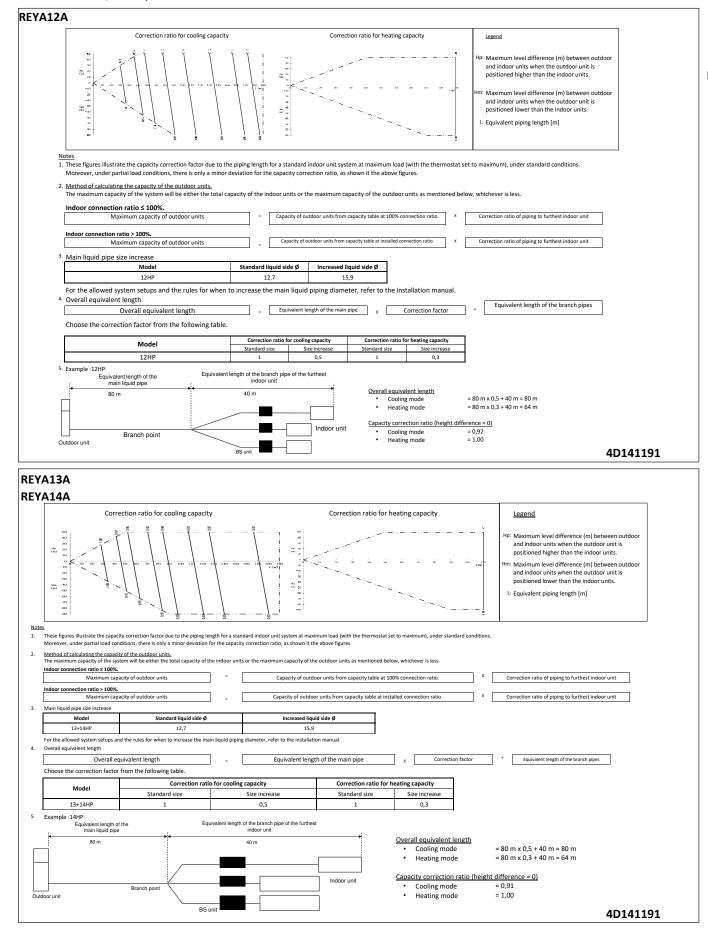
4D141185

5 - 3 Capacity Correction Factor

REYA8A



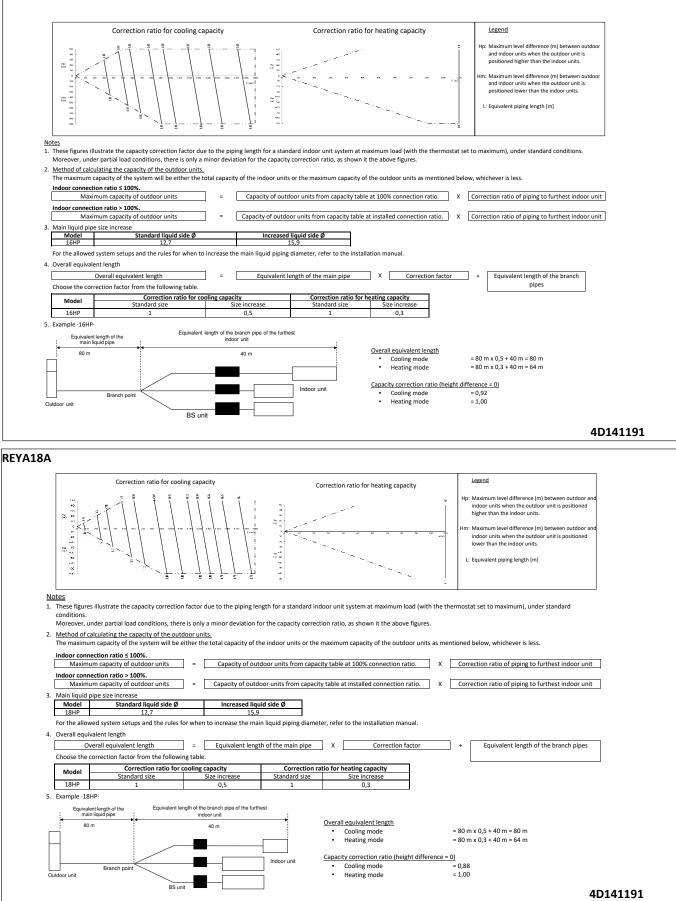
5 - 3 Capacity Correction Factor





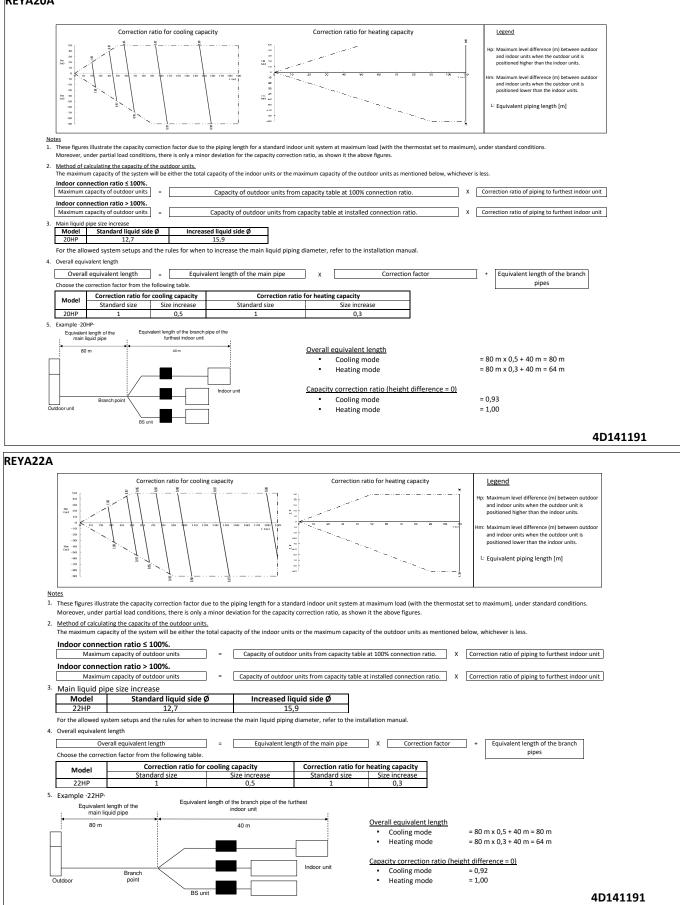
5 - 3 Capacity Correction Factor

REYA16A



5 - 3 **Capacity Correction Factor**

REYA20A

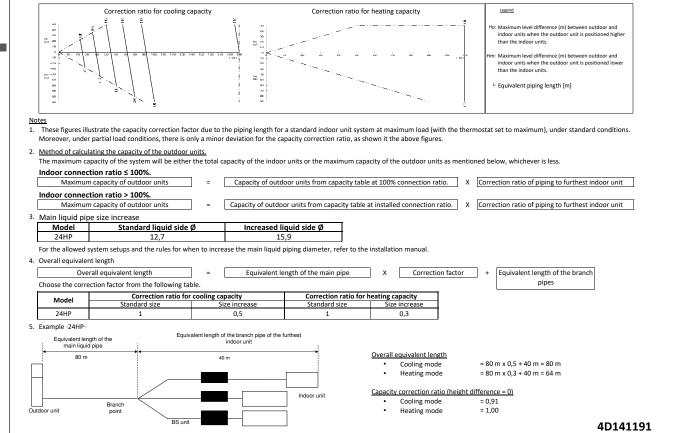




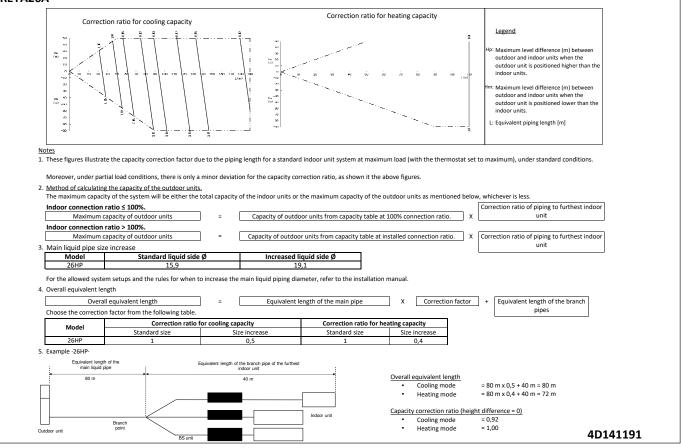
5 - 3 Capacity Correction Factor

REYA24A

5

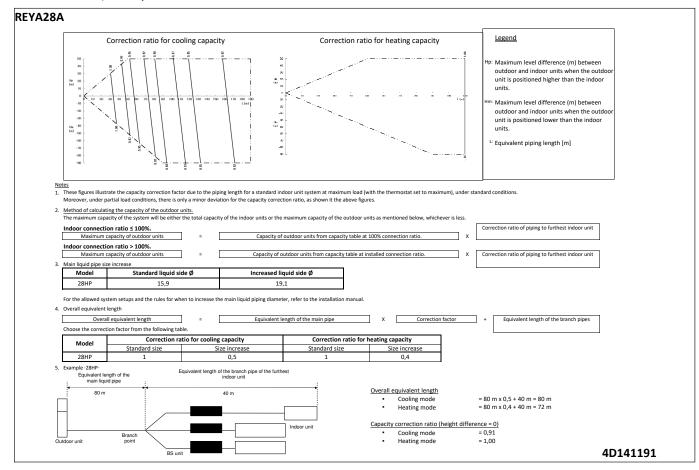


REYA26A



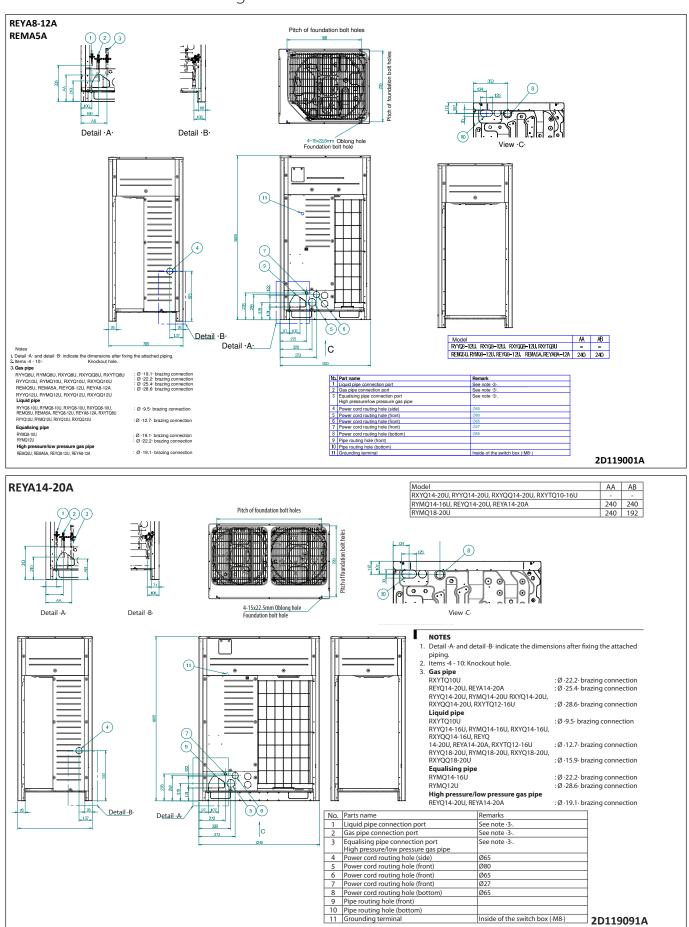
5 Capacity tables

5 - 3 Capacity Correction Factor



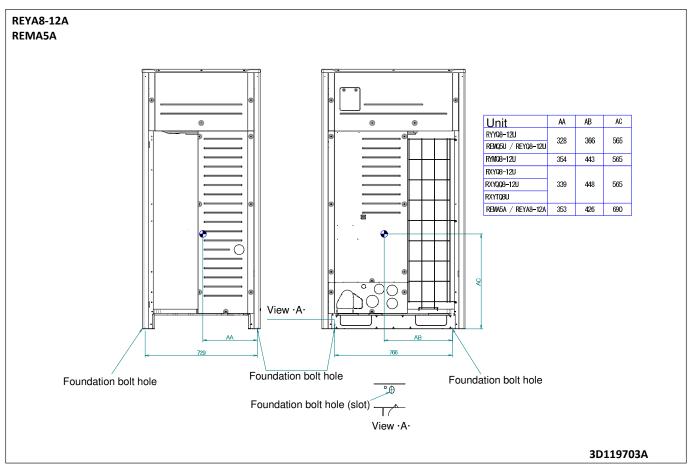
6 Dimensional drawings

6 - 1 Dimensional Drawings



7 Centre of gravity

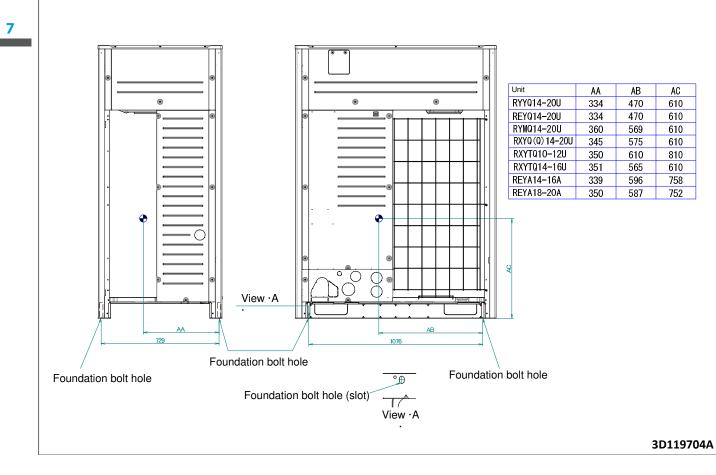
7 - 1 Centre of Gravity



7 Centre of gravity

7 - 1 Centre of Gravity

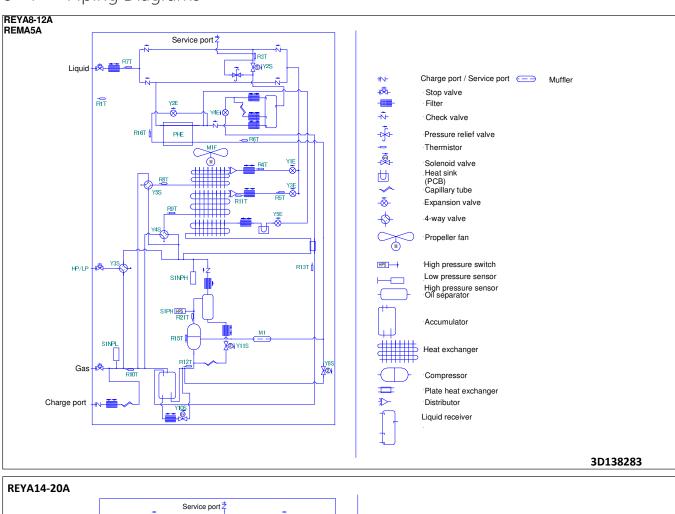
REYA14-20A

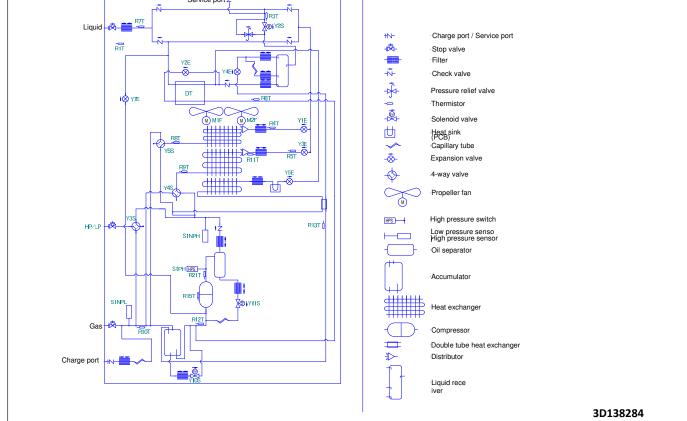


Piping diagrams 8

8 - 1 **Piping Diagrams**



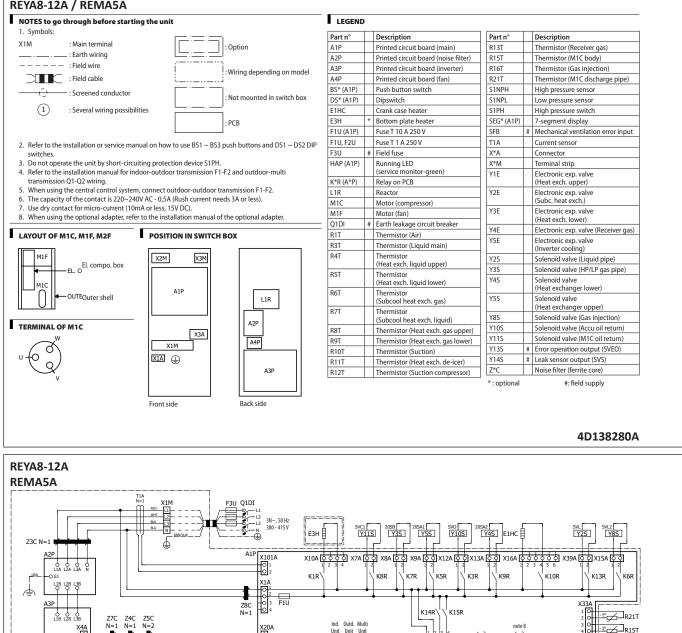


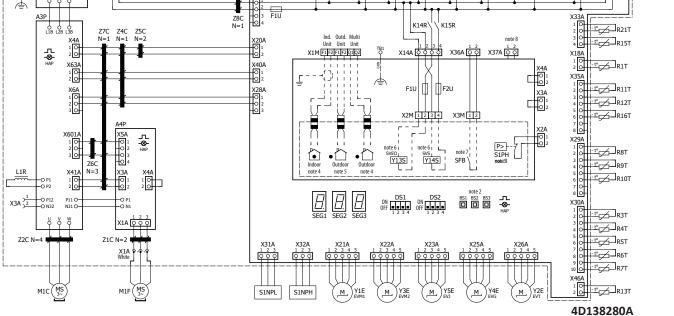


Wiring diagrams 9

9 - 1 Wiring Diagrams - Three Phase

REYA8-12A / REMA5A

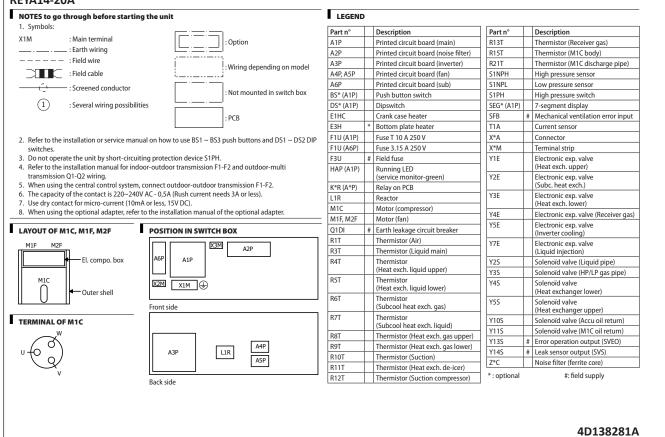




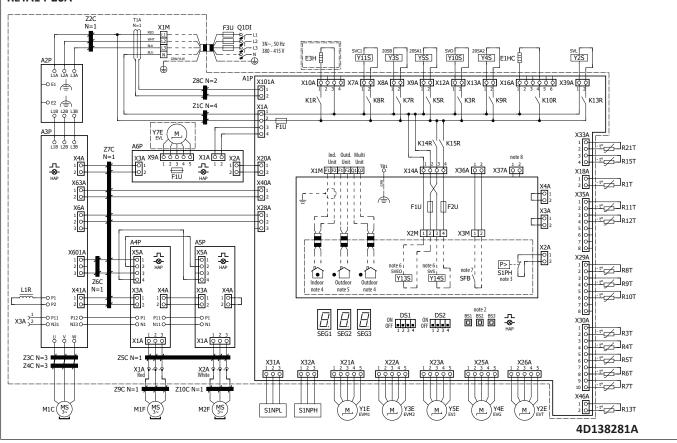
Wiring diagrams 9

9 - 1 Wiring Diagrams - Three Phase





REYA14-20A

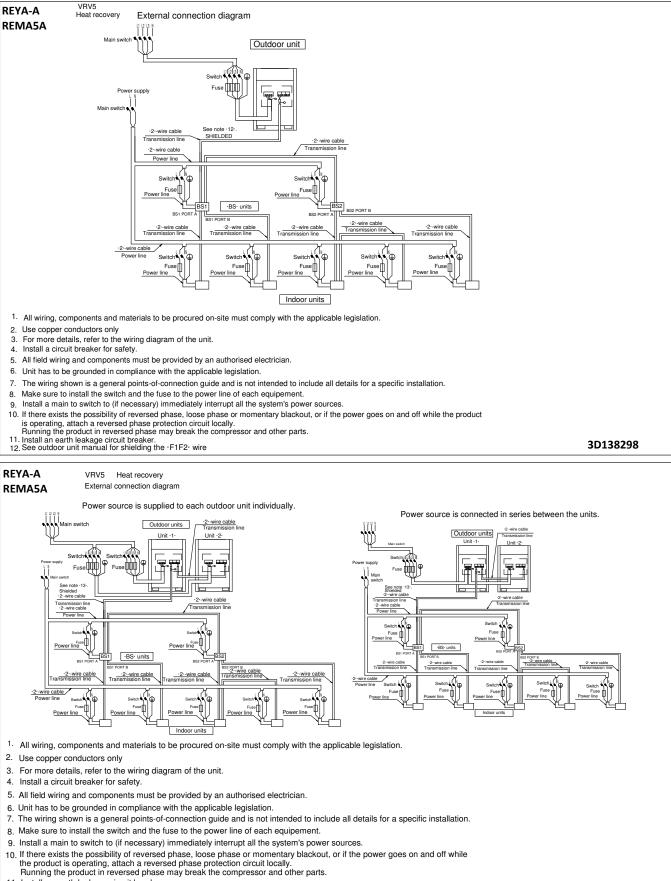


DAIKIN

External connection diagrams 10

10 - 1 External Connection Diagrams





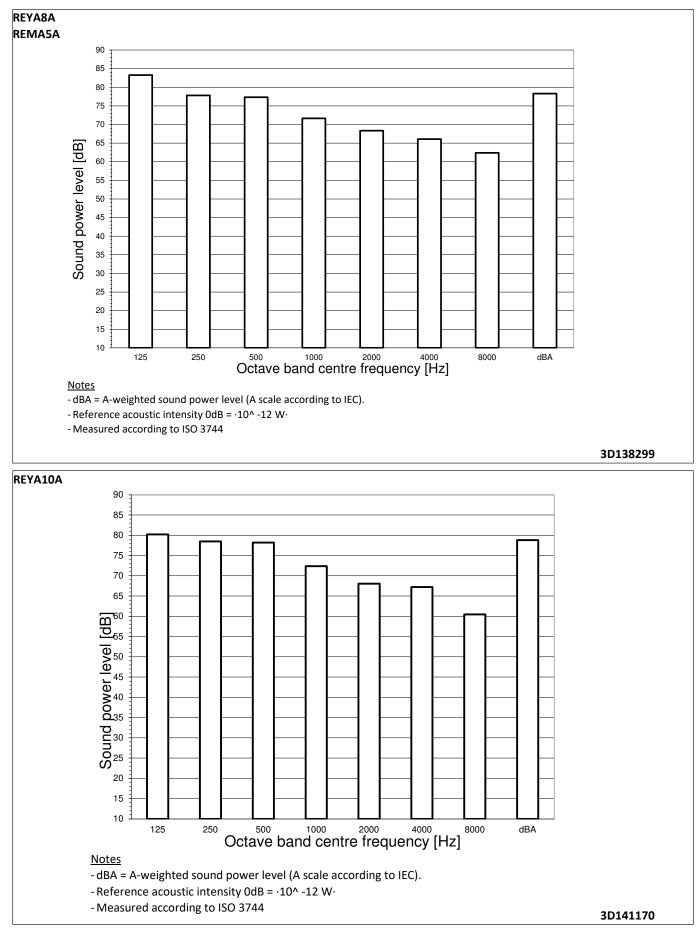
13. See outdoor unit manual for shielding the ·F1F2· wire

3D141220

Install an earth leakage circuit breaker.
 The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.

11 Sound data

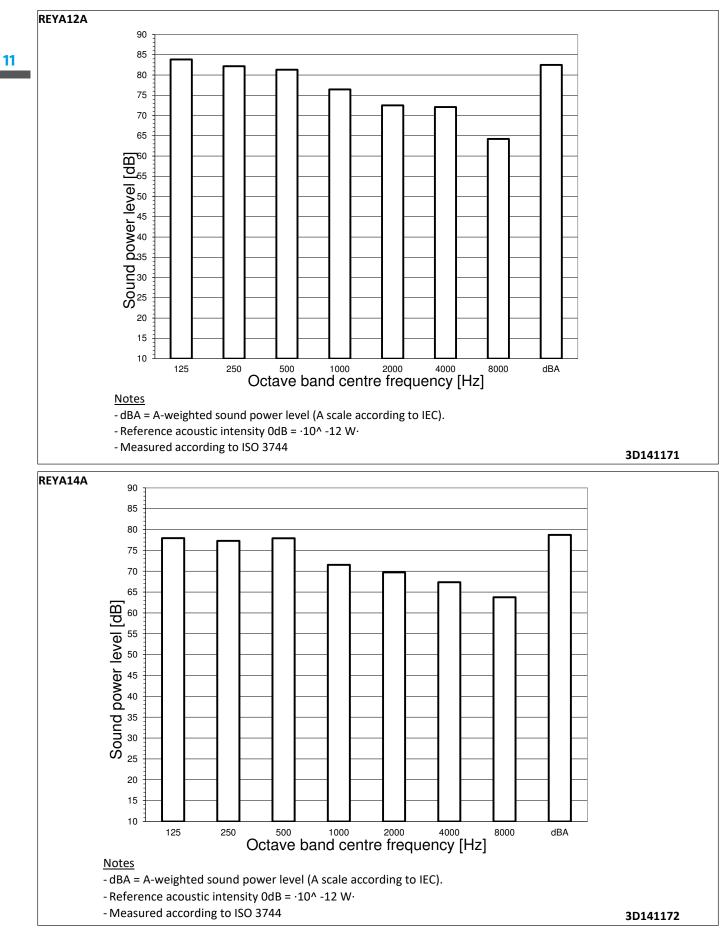
11 - 1 Sound Power Spectrum - Cooling





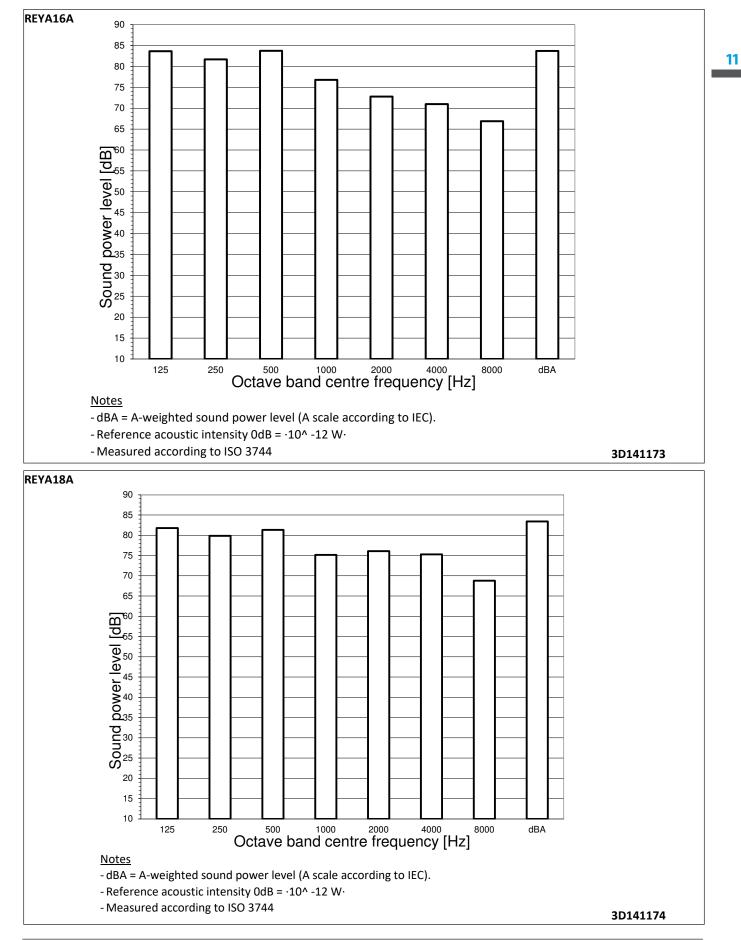
11 Sound data

11 - 1 Sound Power Spectrum - Cooling



11 Sound data

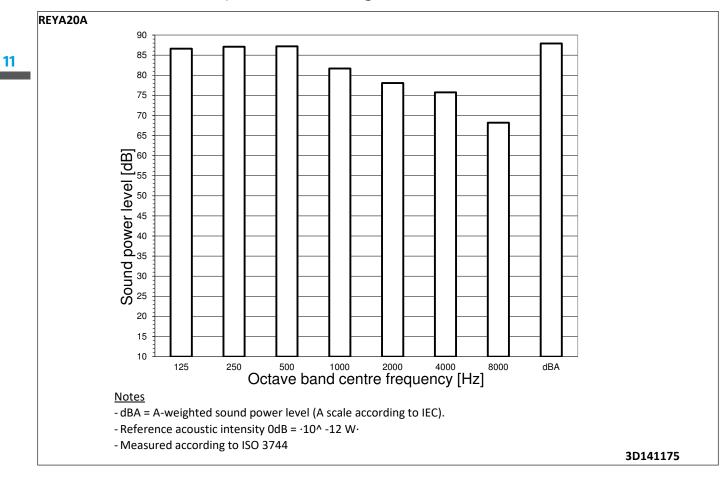
11 - 1 Sound Power Spectrum - Cooling



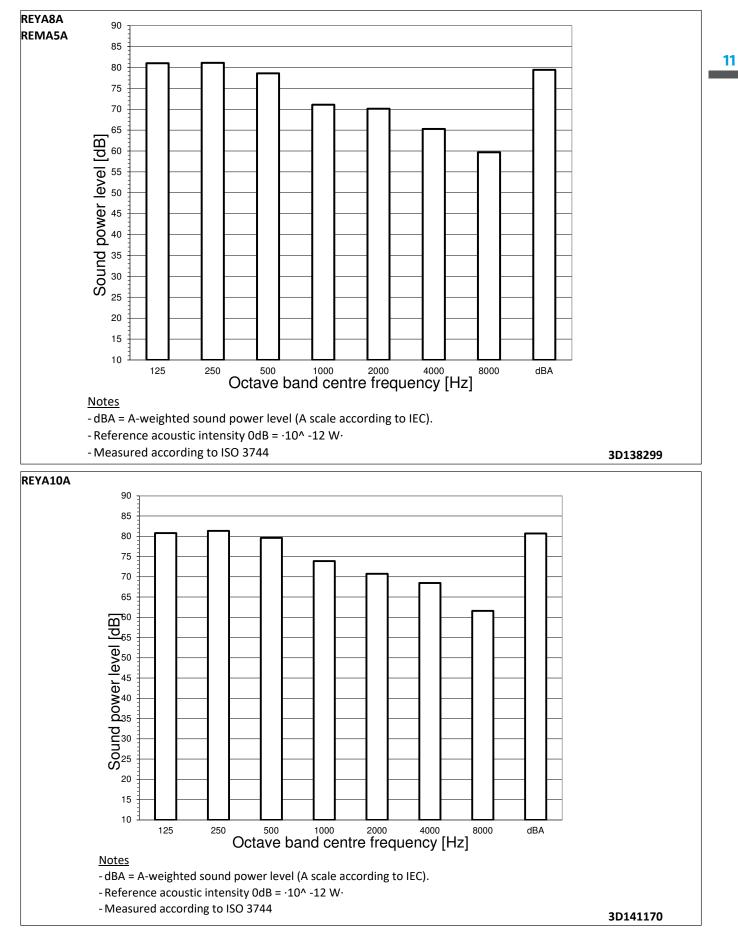


11 Sound data

11 - 1 Sound Power Spectrum - Cooling

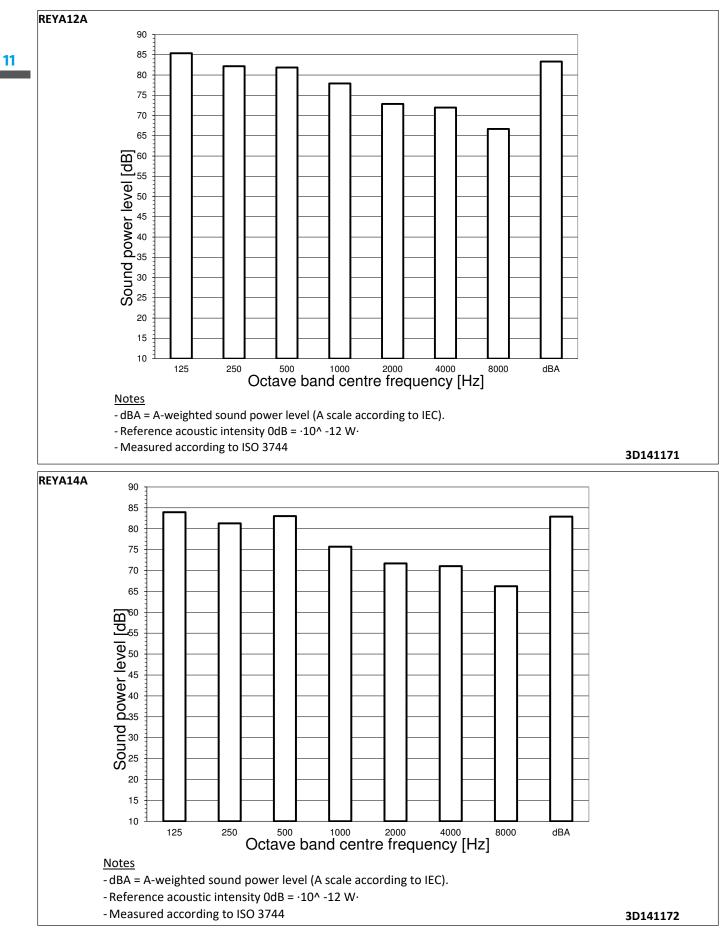


11 - 2 Sound Power Spectrum - Heating



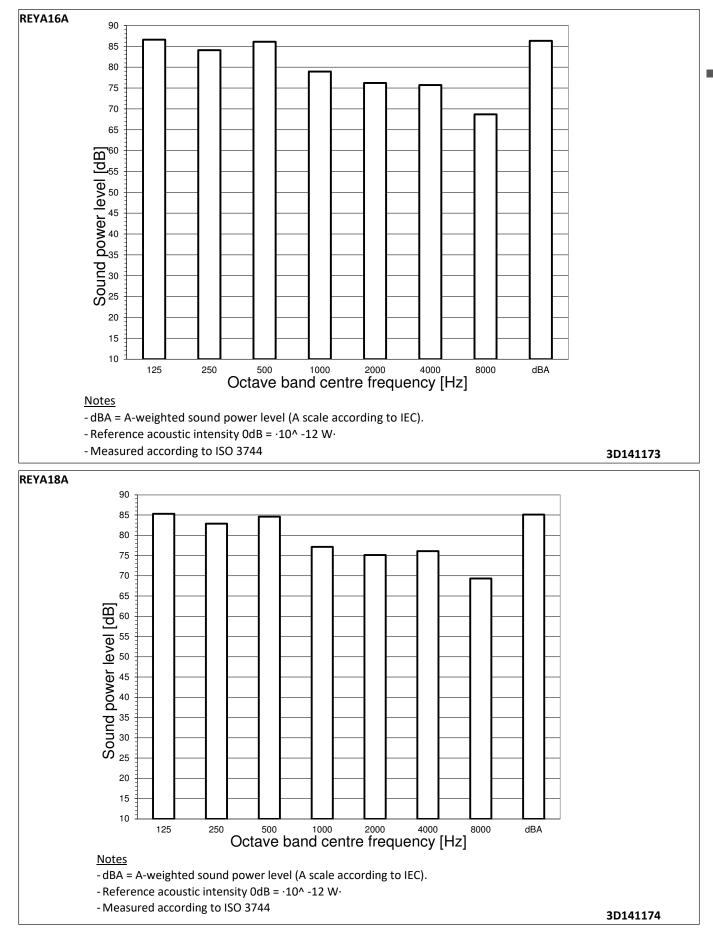


11 - 2 Sound Power Spectrum - Heating



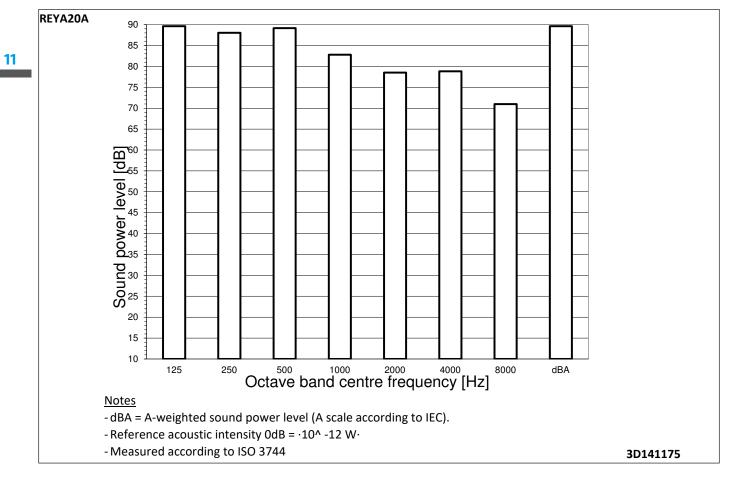
11 Sound data

11 - 2 Sound Power Spectrum - Heating



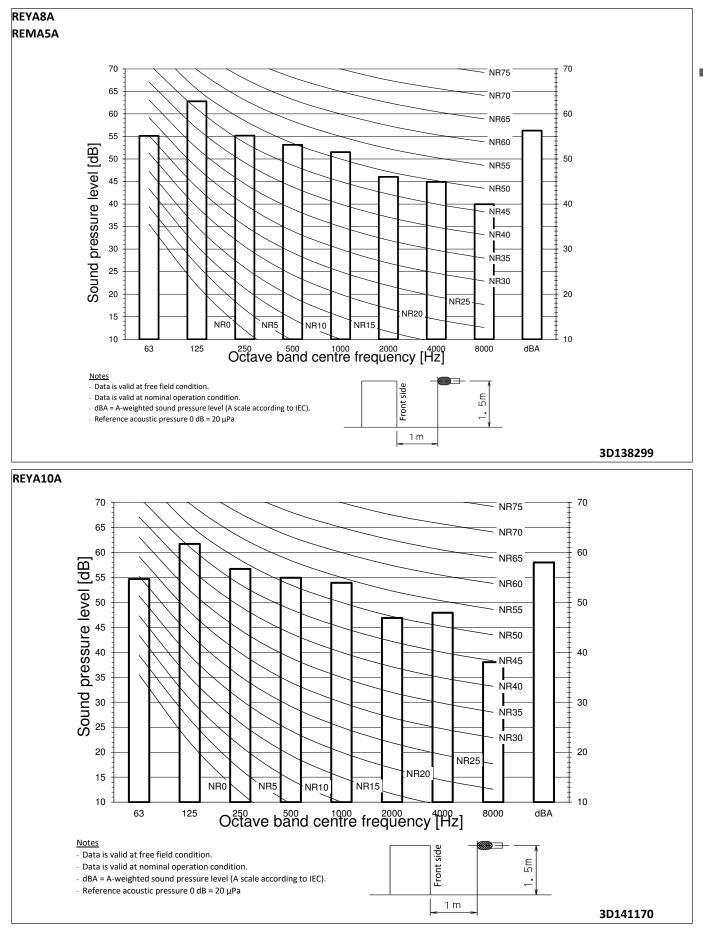






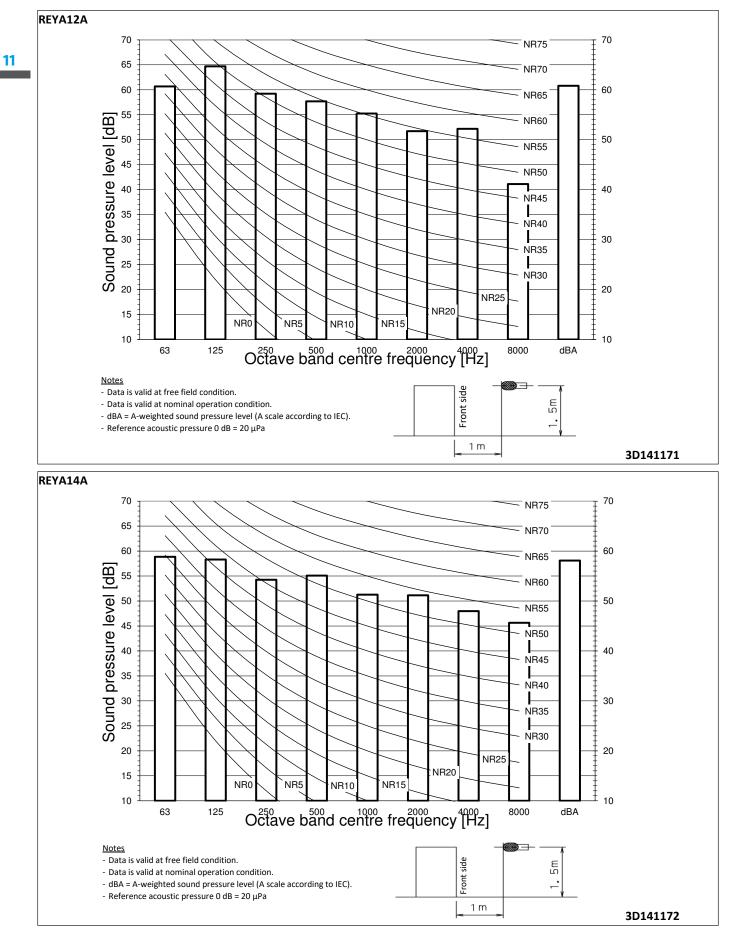
11 Sound data

11 - 3 Sound Pressure Spectrum - Cooling

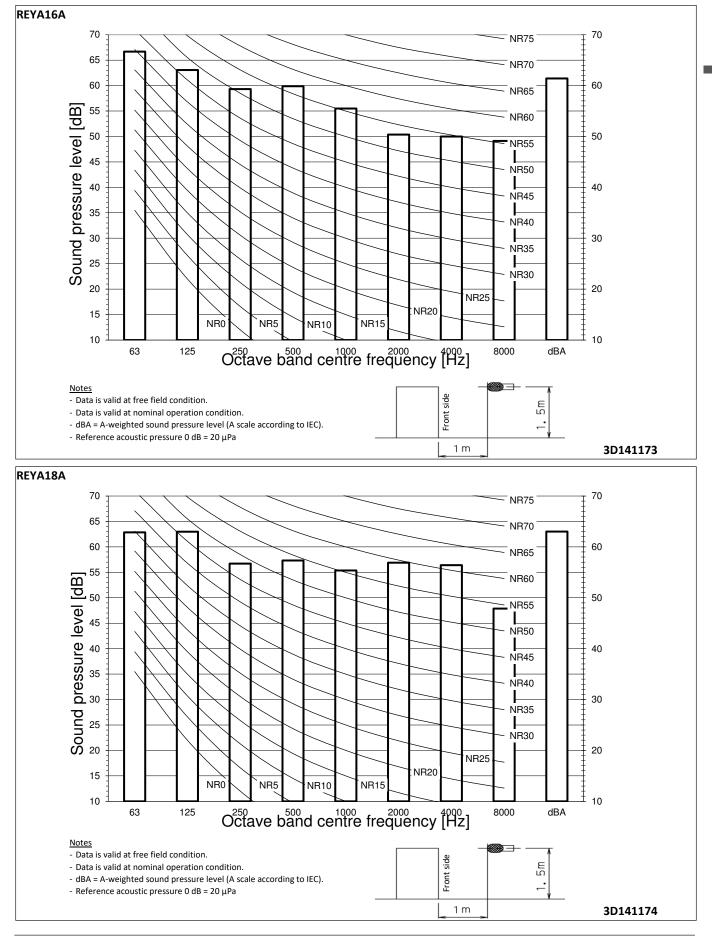




11 - 3 Sound Pressure Spectrum - Cooling



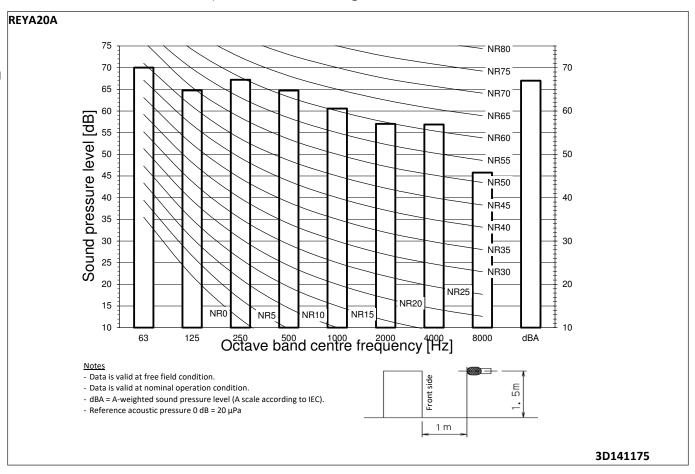






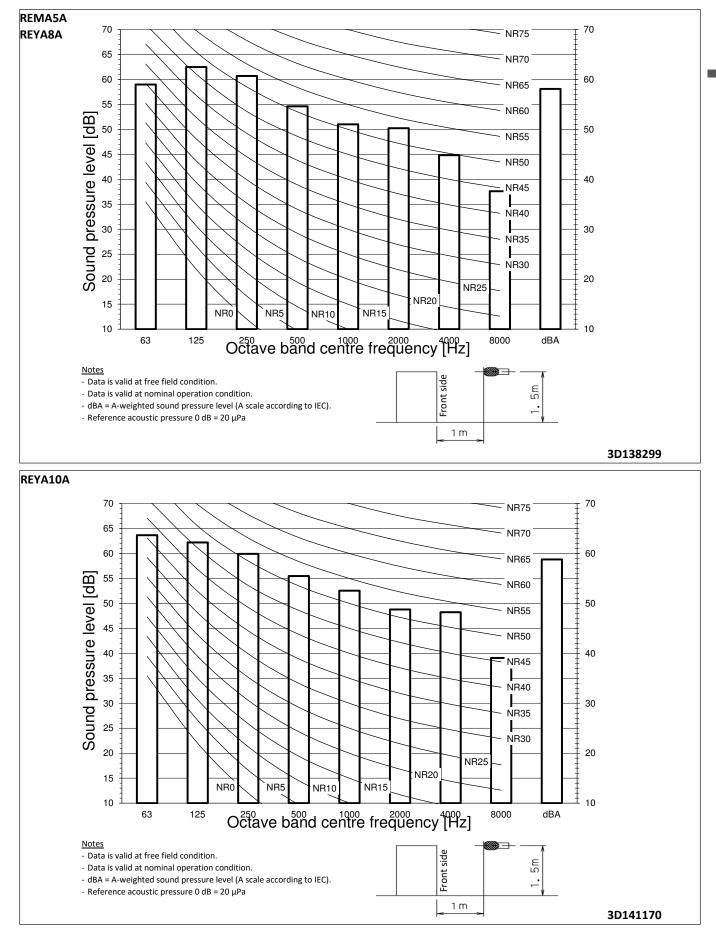
11 Sound data

11 - 3 Sound Pressure Spectrum - Cooling



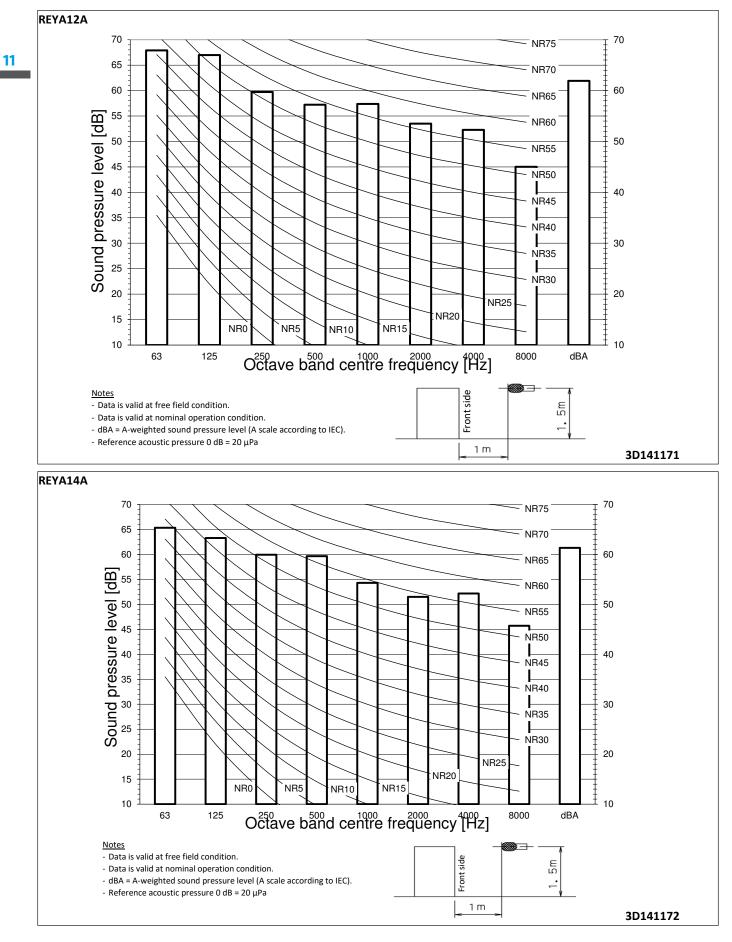
11 Sound data





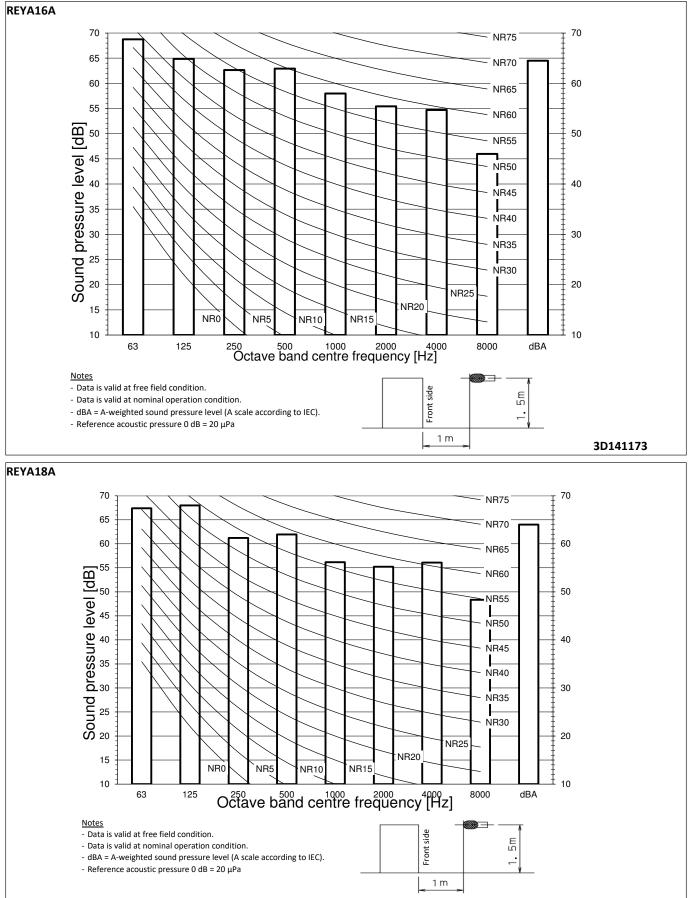


11 - 4 Sound Pressure Spectrum - Heating



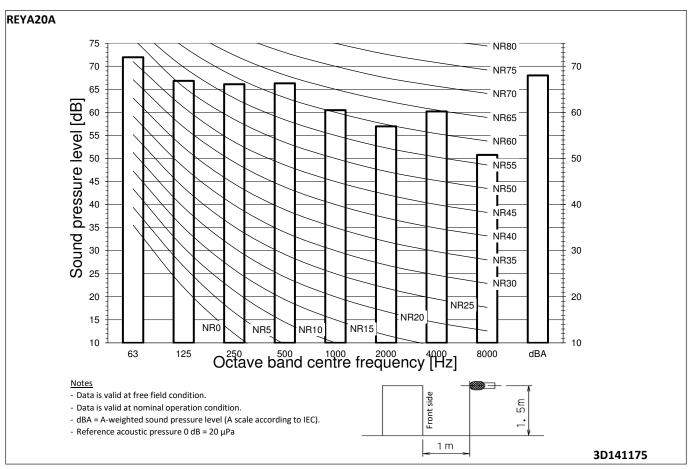
11 Sound data

11 - 4 Sound Pressure Spectrum - Heating



11 Sound data

11 - 4 Sound Pressure Spectrum - Heating



11 Sound data

11 - 5 Sound level data Quiet mode

REYA-A REMA5A

VRV-5	Heat recovery
Low noise data	(level ·1-5·)

	Capacity ratio
LN1	90%
LN2	75%
LN3	60%
LN4	45%
LN5	30%

	Cooling		Heating	
5HP/ 8HP	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	75	53	76	55
LN2	72	50	73	52
LN3	69	47	70	49
LN4	66	44	67	46
LN5	63	41	64	43

Coc				Heating
10HP	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	76	55	78	56
LN2	73	52	75	53
LN3	70	49	72	50
LN4	67	46	69	47
LN5	64	43	66	44

	Cooling		Heating	
12HP	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	79	58	80	58
LN2	76	55	77	55
LN3	73	52	74	52
LN4	70	49	71	49
LN5	67	46	68	46

	Cooling		Heating	
14HP	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	76	53	81	58
LN2	73	50	78	55
LN3	70	47	75	52
LN4	67	44	72	49
LN5	64	41	69	46

	Cooling		Heating	
16HP	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	81	58	84	62
LN2	78	55	82	59
LN3	75	52	80	56
LN4	72	49	77	53
LN5	69	46	74	50

4D141207



11 - 5 Sound level data Quiet mode

REYA-A REMA5A

11

Соо		oling	Heating	
18HP	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	81	60	83	61
LN2	78	57	81	58
LN3	76	54	78	55
LN4	74	51	75	52
LN5	71	48	72	49

	Cooling		Heating	
20HP	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	85	64	87	65
LN2	82	61	84	62
LN3	80	58	81	59
LN4	77	55	79	56
LN5	74	52	77	53

LN1: Low noise level ·1·

LN2: Low noise level $\cdot 2 \cdot$

LN3: Low noise level ·3·

LN4: Low noise level ·4·

LN5: Low noise level .5.

<u>Notes</u>

Sound power

dBA = A-weighted sound power level (A scale according to IEC). Reference acoustic intensity $0dB = \cdot 10^{-12} W$ · Measured according to ISO 3744

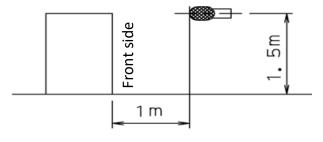
sound pressure

Data is valid at free field condition.

Data is valid at nominal operation condition.

dBA = A-weighted sound pressure level (A scale according to IEC).

Reference acoustic pressure 0 dB = 20 μ Pa



4D141207

11 - 6 Sound power level at high ESP

REYA-A REMA5A

VRV-5 Heat recovery

High ESP

Γ	Cooling	Heating
Г	Sound power [dBA]	Sound power [dBA]
5HP	81	84
8HP	81	84
10HP	81	84
12HP	81	84
14HP	83	85
16HP	87	89
18HP	87	89
20HP	88	90

Sound power is measured on a freestanding unit.

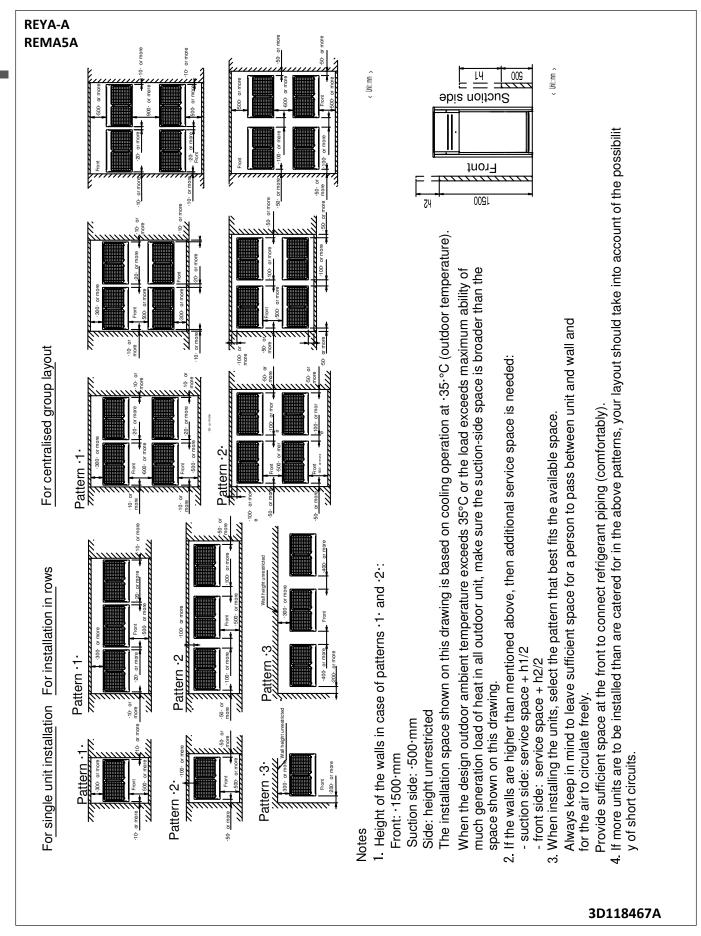
Actual sound is depending on the installation of the duct.

3D141183

VRV 5 heat recovery • REYA-A

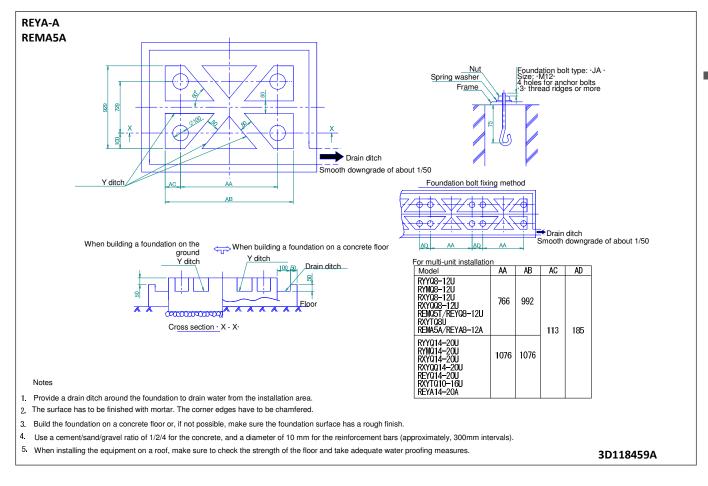
12 Installation

12 - 1 Installation Method



12 Installation

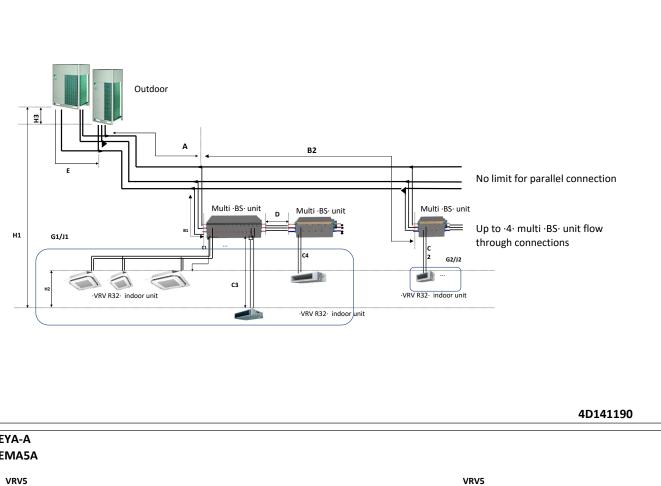
12 - 2 Fixation and Foundation of Units



Refrigerant Pipe Selection 12 - 3

REYA-A REMA5A





REYA-A REMA5A

Lloot r

.....

Piping restrictions				
	Total			
	Capacity	Maximum indoor unit quantity	Maximum total downstream capacity — flow through connection ·BS· unit	Maximum downstream number of ports – flow through connection ·BS· unit
		(*1)	[G1]; [G2]	[J1]; [J2]
·VRV R32 · indoor	50 ~ 130%	64	750	16
unit				

VRV5 Heat recovery

Unit combination restrictions			
Combination table	REYA5-28*		
·VRV R32 DX· indoor unit	0		
EKVDX (Option of VAM - J8)	0		
 Cooling only indoor unit 	х		
Hydrobox unit	х		
Air handling unit (AHU)	Х		

o: Allowed X: Not allowed

Notes

- 1. Excluding ·BS· units
- 2. Other combinations than mentioned in this combination table are prohibited. All units are to be connected to .BS. units

Amount of units connectable to a ·BS· unit

	BS4A (*3)	BS6A (*3)	BS8A (*3)	BS10A (*3)	BS12A (*3)	(*3)	hranchas ara (*3)
·VRV R32·	Maximum ∙20∙ units	Maximum ·30· units	Maximum ·40· units	Maximum ·50∙ units	Maximum ·60· units	Maximum ·5· units	Maximum ·5· units
indoor unit	Maximum ∙400∙ class	Maximum ∙600∙ class	Maximum ·750· class	Maximum ·750· class	Maximum ·750· class	Maximum ·140· class	Maximum ·250· class

Notes

3. When combining $\cdot 2 \cdot$ branches, the maximum piping length between the $\cdot BS \cdot$ unit and the indoor unit is $\leq 20m$. If the length of this piping is > 20m, increase the size of the liquid pipe.

4D141190

Installation 12

Refrigerant Pipe Selection 12 - 3

REYA-A VRV5 REMA5A

Heat recovery

Piping re	estrictions
-----------	-------------

		Maximum piping length			Maximum height difference			Total piping length
		Longest pipe from the outdoor unit or the last multi-outdoor piping branch Actual / Equivalent	Longest pipe after first branch or multi ·BS· unit Actual	Longest pipe from the outdoor unit to the last multi- outdoor piping branch Actual / Equivalent	Indoor-to-outdoor Outdoor unit higher than indoor unit / Indoor unit higher than outdoor unit	Indoor-to- indoor	Outdoor-to- outdoor	Piping length
		Maximum: ·(A+B1+C1, A+B2+C2, A+B1+C3, A+B1+D+C4)·	Maximum: ·(B1+C1,B2+C2,B1+C 3,B1+D+C4)·	Maximum: ·(E)·	Maximum: ·(H1)·	Maximum: ·(H2)·	Maximum: ·(H3)·	
Single outdoor units and standard multi-outdoor-unit	·VRV R32·	165/190 m (*3)	40 m (*1)(*4)	10/13 m	50/40 m (*2)	15 m	5 m	1000 m
combinations > ·20hp·	indoor units 120/165 m (*3		40 m (*1)(*4)	10/15 11	50/40 m (*2)	30 m		1000 m
Standard multi-outdoor-unit combinations ·≤ 20hp· and free multi-outdoor-unit combinations	·VRV R32· indoor units	135/160 m (*3)	40 m (*1)(*4)	10/13 m	50/40 m (*2)	15 m	5 m	500 m

Notes

Notes
1. If all conditions below are met, the limitation can be extended up to 90 m
1. If all conditions below are met, the limitation can be extended up to 90 m
1.1 The piping length between all indoor units and the multi -BS- unit is ≤ -40- m.
1.2 It is required to size up the liquid piping between the first branch kit or multi -BS- unit and the last branch kit or last multi -BS- unit.
It is not required to size up the liquid piping between the multi -BS- unit and indoor units.
It is required to size up the liquid piping which is downstream of the multi -BS- unit, if the last branch kit is located downstream of the multi -BS- unit.
If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.
1.3 When the piping size is increased, the piping length has to be counted as double.
The total piping length has to be within limitations.

Ine total piping length has to be writin imitations.
 1,4 The piping length difference between the nearest indoor unit to the outdoor unit and the farthest indoor unit to the outdoor unit is ≤ ·40·m.
 If all conditions below are met, the limitation can be extended up to 90 m
 If the outdoor units are positioned higher than the indoor units:

 1.1 Minimum connection ratio: 80% 2.1 Size up the liquid piping
 2.1 a Quedence interprint

- 2.1.3 Outdoor unit setting For more information, refer to the service manual. 2.2 If the outdoor units are positioned lower than the indoor units:

2.2.1 Size up the liquid piping 2.2.2 Outdoor unit setting For more information, refer to the service manual.

If the equivalent piping is > 90-m, size up the main liquid piping.
 Limit of -40-m piping length between multi -BS- unit and indoor unit is depending upon room size (cfr. Safety system)

4D141190

12 - 4 Refrigerant Charge Information

REYA-A REMA5A

Requirements for R32 units

To comply with the requirements of enhanced tightness refrigerating systems of the IEC 60335-2-40:2018, this system is equipped with shut-off valves in the ·BS· unit and an alarm in the remote controller.

The ·BS· unit is prearranged for a ventilated enclosure as countermeasure.

Outdoor unit installation

The outdoor unit has to be installed outside. For indoor installation of the outdoor unit, additional measures can be necessary to comply with the applicable legislation.

Indoor unit installation

The total amount of refrigerant in the system shall be less than or equal to the maximum allowed total refrigerant amount.

The maximum allowed total refrigerant amount depends on the area of the rooms being served by the system and the rooms in the lowest underground floor.

Note: The total refrigerant charge amount in the system MUST always be lower than \cdot 15.96· [kg] × the number of indoor units connected downstream of \cdot BS· units, with a maximum of \cdot 63.8· kg..

When the R32 sensor in the indoor unit detects a refrigerant leak, the corresponding shut-off valves in the \cdot BS \cdot unit close and the alarm in the remote controller connected to the indoor unit is triggered.

Follow the flowchart. Details are described in the manual of the outdoor unit.

Note: The total refrigerant charge amount in the system MUST always be lower than \cdot 15.96· [kg] × the number of indoor units connected downstream of \cdot BS· units, with a maximum of \cdot 63.8· kg..

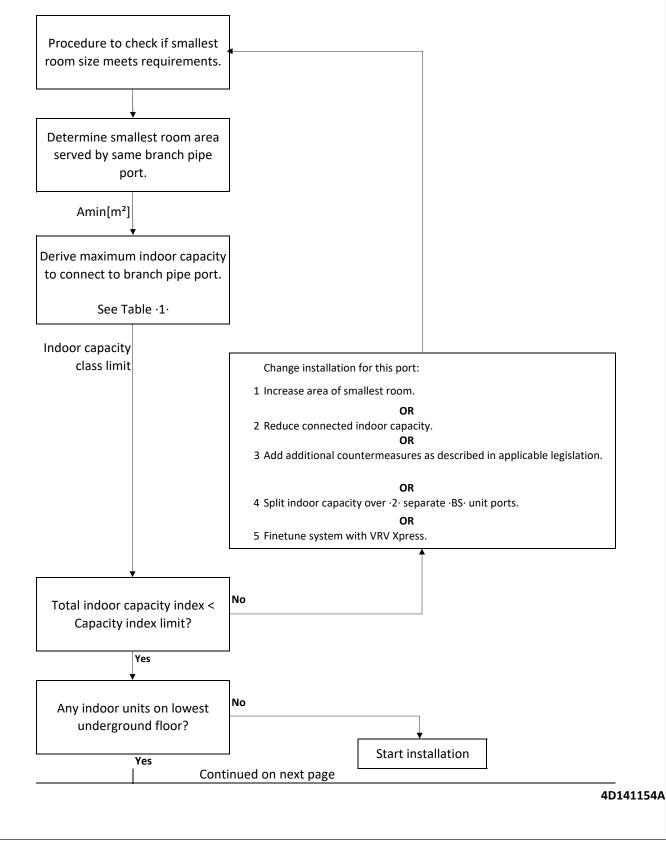
4D141154A

12 - 4 Refrigerant Charge Information

REYA-A REMA5A

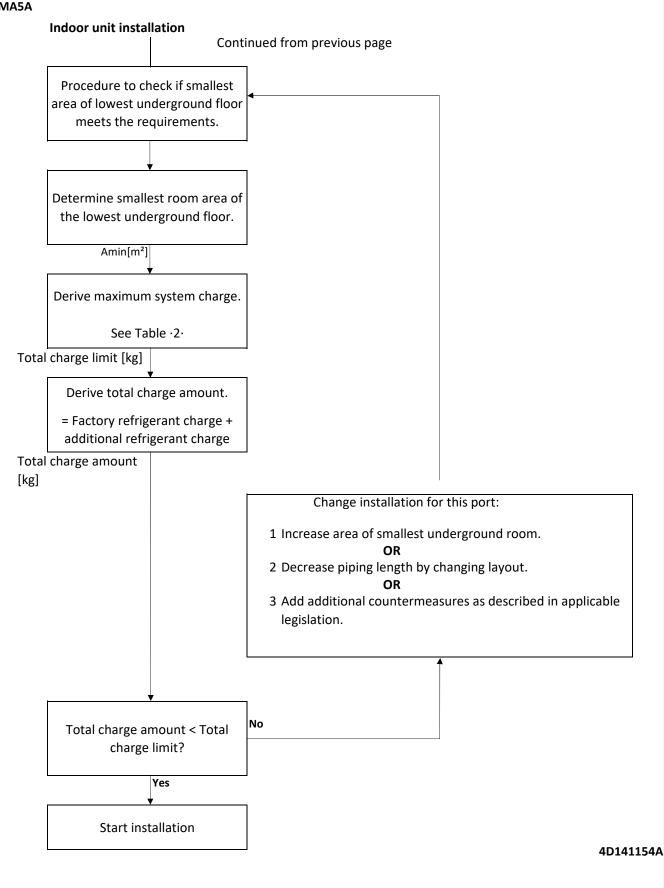
Indoor unit installation

Flowchart (for EACH ·BS· unit branch pipe port)



12 - 4 Refrigerant Charge Information





12 Installation

12 - 4 Refrigerant Charge Information

REYA-A REMA5A

Indoor unit installation

or unit installatio		Table ·1·					
	Maxin	Maximum total indoor unit capacity class					
Room area [m²]	1 indoor unit per branch pipe port	·2-5· units per branch pipe port					
	(·a, d·)	·40· m after first branch (·b·)	·90· m after first branch (·c·)				
≤6	-	-	-				
7	10	-	-				
8	15	-	-				
9	32	-	-				
10	32	-	-				
11	40	-	-				
12	40	-	-				
13	71	-	-				
14	80	-	-				
15	80	-	-				
20	80	32	-				
25	140	40	25				
30	200	63	50				
35	200	71	71				
40	250	100	100				
≥45	250	140	140				

(a) 1 indoor unit connected to a single branch pipe port.

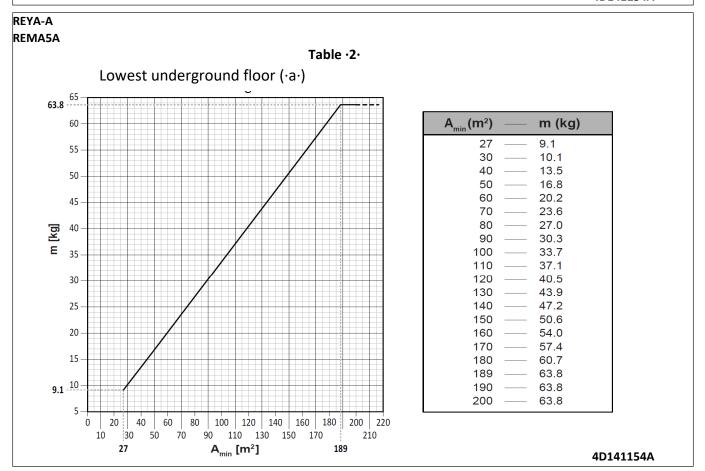
(b) 2. to .5. indoor units connected to a single branch pipe port, .40. m after first refrigerant branch.

(c) ·2· to ·5· indoor units connected to a single branch pipe port, ·90· m after first refrigerant branch.

(d) In case the indoor unit capacity class exceeds ·140·, two branch ports need to be combined. Refer to the installation manual for more details.

Note: The values in Table ·1· are under the assumption of worst case indoor unit volume and ·40· m piping between indoor and ·BS· unit.

In VRV Xpress (https://vrvxpress.daikin.eu/) it is possible to add custom piping lengths and indoor units, which can lead to lower minimum room area requirements. 4D141154A



DAIKIN

12 - 4 Refrigerant Charge Information

REYA-A REMA5A

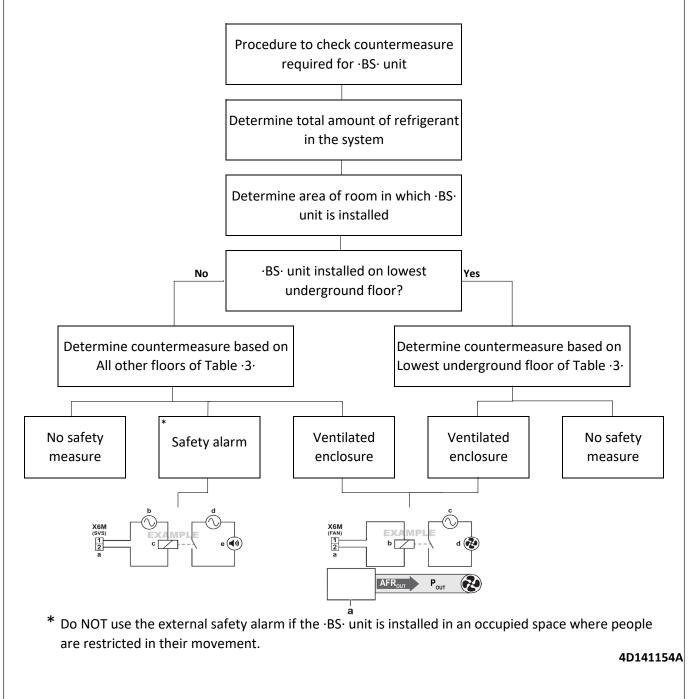
·BS· unit installation

Depending on the room size in which the \cdot BS \cdot unit is installed and the total amount of refrigerant in the system, different safety measures can be applied.

Follow the flowchart. Details are described in the manual of $\cdot BS \cdot$ unit.

Note: If the installation height is more than $\cdot 2.2 \cdot m$, different boundaries for the applicable safety measures can apply.

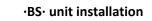
To know which safety measure is required in case the installation height is more than $\cdot 2.2 \cdot$ m, refer to VRV Xpress (https://vrvxpress.daikin.eu/).

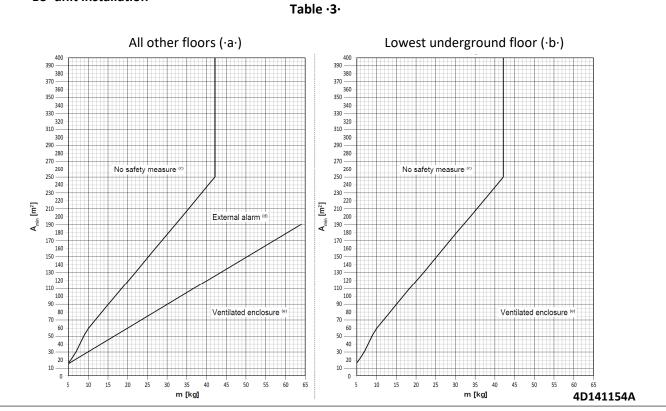


Installation 12

Refrigerant Charge Information 12 - 4

REYA-A REMA5A





REYA-A

REMA5A

	Amin [m ²]				Amin [m ²]			
m [kg]	All other floors (·a·)		Lowest underground floor (·b·)	m [kg]	All other floors (·a·)		Lowest underground floor (·b·)	
	No safety measure (·c·)	External alarm (·d·)	No safety measure (·c·)		No safety measure (·c·)	External alarm (·d·)	No safety measure (·c·)	
5	16	15	16	35	207	104	207	
6	23	18	23	36	213	107	213	
7	31	21	31	37	219	110	219	
8	41	24	41	38	225	113	225	
9	51	27	51	39	231	115	231	
10	59	30	59	40	237	118	237	
11	65	33	65	41	243	121	243	
12	71	36	71	42	249	124	249	
13	77	38	77	43	-	127	-	
14	83	41	83	44	-	130	-	
15	89	44	89	45	-	133	-	
16	95	47	95	46	-	136	-	
17	101	50	101	47	-	139	-	
18	107	53	107	48	-	142	-	
19	113	56	113	49	-	145	-	
20	118	59	118	50	-	148	-	
21	124	62	124	51	-	151	-	
22	130	65	130	52	-	154	-	
23	136	68	136	53	-	157	-	
24	142	71	142	54	-	160	-	
25	148	74	148	55	-	163	-	
26	154	77	154	56	-	166	-	
27	160	80	160	57	-	169	-	
28	166	83	166	58	-	172	-	
29	172	86	172	59	-	175	-	
30	178	89	178	60	-	178	-	
31	184	92	184	61	-	181	-	
32	190	95	190	62	-	184	-	
33	195	98	195	63	-	187	-	
34	201	101	201	64	-	190	-	

12 - 4 Refrigerant Charge Information

REYA-A REMA5A

12

·BS· unit installation

When the R32 sensor in the ·BS· unit detects a refrigerant leak, it will activate the safety measures.

Safety alarm

An external alarm circuit (field supply) must be connected to the SVS output of the \cdot BS \cdot unit.

When the R32 sensor in the ·BS· unit detects a refrigerant leak, the SVS output closes and activates the alarm. An error message is displayed on the remote controllers of the connected indoor units.

- This alarm system must warn audibly AND visibly (e.g. a loud buzzer AND a flashing light). The audible alarm must be ·15· dBA above the background sound level at all times.
- At least one alarm must be installed in the occupied space in which the $\cdot BS \cdot$ unit is installed.
- For the occupancy listed below, the alarm system must additionally warn at a supervised location with 24-hour monitoring. To warn at a supervised location, connect a supervisor remote controller (e.g. ·BRC1H52*·) to the system
 - with sleeping facilities.
 - where an uncontrolled number of people are present.
 - accessible for persons not familiar with the necessary safety precautions.

- Do NOT use the external safety alarm if the ·BS· unit is installed in an occupied space where people are restricted in their movement. For details, see the manual of the ·BS· unit.

For details, see the manual of the

Ventilated enclosure

For the ventilated enclosure safety measure, ductwork and an extraction fan are installed.

- When the R32 sensor in the ·BS· unit detects a refrigerant leak, it will activate the safety measures. This includes:
- ⁻ opening the damper of the unit to allow air to enter and evacuate the refrigerant leak.
- activating the fan output signal to trigger an extraction fan to operate.
- displaying an error message on the remote controllers of the connected indoor units.

4D141154A

REYA-A REMA5A

·BS· unit installation

The information in the table below must be taken into account in case a ventilated enclosure is used as a safety measure.

	The evacuation ductwork MUST vent outside the building.
	Avoid that dirt and small animals can enter the ductwork and lead to an obstruction. Example:
Ductwork	install a non-return valve, grille, filter or other component in the evacuation duct.
	The extraction fan must have a CE marking and cannot act as an ignition source during normal
xtraction fan	operation. Example: Brushed DC motors can cause sparks and are not allowed.
	Fan power must be lower than ·2.5· kVA.
	Make sure that sufficient air is available for the extraction of a refrigerant leak. The extraction
	airflow rate must be maintained for at least $\cdot 6.5 \cdot$ hours.
Replacement air	This is achieved by providing a sufficiently large air volume around the ·BS· unit, or by providing
	sufficient replacement air around the \cdot BS \cdot unit (e.g. natural openings or a dedicated opening in the false ceiling).
	A periodic inspection of the unit is required, where the test run is repeated.
Maintenance	
	Maintain the evacuation channel to avoid dust and dirt from building up and obstructing the flow path.

DAIKIN

12 Installation

12 - 4 Refrigerant Charge Information

REYA-A REMA5A

·BS· unit installation

A damper at the air inlet of the ·BS· unit enables a choice between 3 types of configurations (see below).

The damper opens when a refrigerant leak has been detected in the \cdot BS \cdot unit. This creates an airflow path from the leaking \cdot BS \cdot unit to the extraction fan.



a Damper

When a ventilated enclosure is required, the following requirements apply.

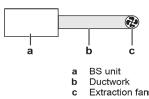
- Pressure inside the ·BS· unit has to be more than ·20· Pa below the ambient pressure.
- Minimum airflow rate

	iow rate				
Mode	el .	Minimum airflow rate [m ³ /h]			
BS4A		90			
BS6-8	A	87			
BS10-	12A	77			

External fan needs to be selected in order to meet these requirements. The available calculation method depends on the configuration.

Possible configurations

One ·BS· unit – one extraction fan



Calculation method for selection of external fan

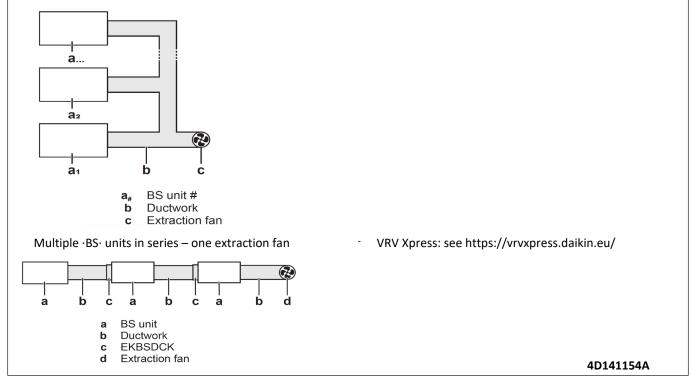
- Manual calculation: see ·BS· unit manual for details
- ⁻ VRV Xpress: see https://vrvxpress.daikin.eu/
- 4D141154A

REYA-A REMA5A

·BS· unit installation

Multiple ·BS· units in parallel – one extraction fan

VRV Xpress: see https://vrvxpress.daikin.eu/

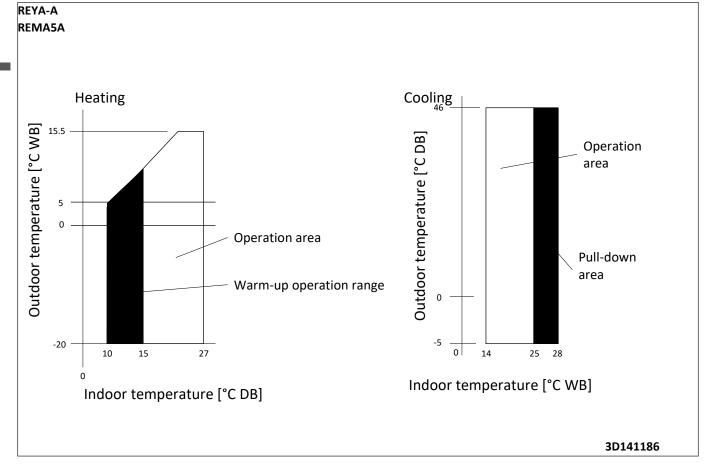




13 Operation range

13 - 1 Operation Range





14 Appropriate Indoors

14 - 1 Appropriate Indoors

REYA-A REMA5A

Recommended indoor units for •REYA*A* + REMA5A*• outdoor units

 HF	8	10	12	13	14	16	18	20
	4xFXSA50	4xFXSA63	6xFXSA50	3xFXSA50 3XFXSA63	1xFXSA50 5XFXSA63	4XFXSA63 2xFXSA80	3xFXSA50 5XFXSA63	2xFXSA50 6xFXSA63

For multi outdoor units ·>16HP·, the recommended amount of indoor units is the sum of the indoor units defined for a single outdoor unit.

For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·REYA*A* + REMA5A* · outdoor units

Covered by ·ENER LOT21·

FXFA20-25-32-40-50-63-80-100-125 FXZA15-20-25-32-40-50 FXSA15-20-25-32-40-50-63-80-100-125-140 FXDA10-15-20-25-32-40-50-63 FXAA15-20-25-32-40-50-63 FXMA50-63-80-100-125-200-250 FXHA32-50-63-100 FXUA50-71-100

Outside the scope of \cdot ENER LOT21 \cdot

EKVDX32-50-80-100

4D138288

Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300 - 8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende (Responsible Editor)



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe NV. Daikin Europe NV. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe NV. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe NV.