

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

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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
- > Top sustainability over the entire lifecycle, thanks to market leading > The perfect personal comfort for guests/tenants via simultaneous 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
 - cooling and heating



2 Specifications 1 - 1 REYA-A

Recommended con Recommended con Recommended con Cooling capacity Heating capacity Power input - 50Hz	mbination 2		4 x FXFA50A2VEB 4 x FXSA50A2VEB	4 x FXFA63A2VEB 4 x FXSA63A2VEB	6 x FXFA50A2VEB	1 x FXFA50A2VEB + 5 > FXFA63A2VEB	
Recommended cor Cooling capacity Heating capacity	mbination 3		4 x FXSA50A2VEB	4 x EXSA63A2\/EB	C EV(C) = = 1 = 1 = 1		
Cooling capacity Heating capacity				4 XT XJAOJAZVED	6 x FXSA50A2VEB	1 x FXSA50A2VEB + 5 x FXSA63A2VEB	
Heating capacity	Prated,c		4 x FXMA50A5VEB	4 x FXMA63A5VEB	6 x FXMA50A5VEB	1 x FXMA50A5VEB + 5 FXMA63A5VEB	
Heating capacity		kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	
	Nom. 6°CWB	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	
Power input - 50Hz	Prated,h	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	
Power input - 50Hz	Max. 6°CWB	kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)	
		kW	5.85 (2)	8.12 (2)	9.69 (2)	11.20 (2)	
COP at nom.	6°CWB	kW/kW	3.83 (2)	3.45 (2)	3.46 (2)	3.57 (2)	
capacity			(_)				
SCOP			4.11	4.33	4.49	4.28	
SCOP recommende	ed combination 2		4.10	4.34	4.56	4.33	
SCOP recommende			4.15	4.40	4.56	4.33	
SEER			7.35	7.14	7.21	7.73	
SEER recommende	ed combination 2		7.07	6.87	6.90	7.53	
SEER recommende			7.49	7.15	7.41	7.78	
ηs,c		%	290.8	282.6	285.3	306.1	
ηs,c ηs,c recommendec	d combination 2	70	290.8	282.6	285.3	298.3	
ns,c recommended			296.5	283.1	273.2	308.1	
		%					
ηs,h ns.h.rocommondor	d combination 2	%0	161.5	170.2	176.4	168.3	
ηs,h recommended			161.1	170.4	179.5	170.2	
ηs,h recommended			163.2	172.9	179.5	170.2	
Space cooling	A Condi- EERd		3.25	3.26	3.24	3.26	
	tion (35°C Pdc - 27/19)	kW	22.4	28.0	33.5	40.0	
	B Condi- EERd		5.23	5.00	4.60	4.92	
	tion (30°C Pdc kW - 27/19)		16.5	20.6	24.7	29.5	
	C Condi- EERd		9.11	8.50	8.45	8.74	
	tion (25°C Pdc - 27/19)	kW	10.6	13.3	15.9	18.9	
	D Condi- EERd		15.3	14.8	17.7	22.5	
	tion (20°C Pdc	kW	8.13	8.19	8.57	10.9	
Space cooling	- 27/19) A Condi- EERd		2	23	2.00	2.72	
Space cooling recommended	tion (35°C Pdc	kW	22.4	23	3.00 33.5	3.23 40.0	
combination 2	- 27/19)						
	B Condi- EERd		5.09	4.83	4.54	4.85	
	tion (30°C Pdc - 27/19)	kW	16.5	20.6	24.7	29.5	
	C Condi- EERd		8.55	8.06	7.94	8.38	
	tion (25°C Pdc - 27/19)	kW	10.6	13.3	15.9	18.9	
	D Condi- EERd tion (20°C - 27/19)		14.6	14.1	16.9	21.7	
Space cooling recommended combination 2	D Condi- Pdc tion (20°C - 27/19)	kW	7.84	7.97	8.20	10.6	
Space cooling	A Condi- EERd		3.22	3.27	3.23	3.30	
recommended	tion (35°C Pdc	kW	22.4	28.0	33.5	40.0	
combination 3	- 27/19)	r.vv	22.4	20.0	22.2	40.0	
	B Condi- EERd		5.31	4.91	4.69	4.93	
	tion (30°C Pdc - 27/19)	kW	16.5	20.6	24.7	29.5	
	C Condi- EERd		9.41	8.59	8.82	8.84	
	tion (25°C Pdc	kW	10.6	13.3	15.9	18.9	
	- 27/19)	17.4.4					
	D Condi- EERd		15.7	15.1	18.5	22.4	
	tion (20°C Pdc - 27/19)	kW	8.19	8.13	8.50	10.9	

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2 Specifications

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Technical Spe			1	REYA8A	REYA10A	REYA12A	REYA14A
Space heating	TBivalent	COPd (declared COP)		2.80	2.28	2.38	2.57
Average climate)		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
	TOI	Tbiv (bivalent temperature)	°C	2.00	1	0	2.57
	TOL	COPd (declared COP)	kW	2.80	2.28	2.38	2.57 20.6
		Pdh (declared heating cap) Tol (temperature operating	°C	15./	16.0	18.4 0	20.0
		limit)			-	0	
	A Con-	COPd (declared COP)		3.06	2.67	2.84	2.94
	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2
	(-7°C)	· ··· (
		COPd (declared COP)		3.81	4.23	4.15	3.86
	tion (2°C)	Pdh (declared heating cap)	kW	7.38	8.62	9.89	11.1
	C Condi-	COPd (declared COP)		5.27	5.70	6.32	6.31
	tion (7°C)	Pdh (declared heating cap)	kW	4.76	5.54	6.36	7.13
	D Con-	COPd (declared COP)		7.04	7.92	9.14	6.68
	dition	Pdh (declared heating cap)	kW	4.51	5.46	5.52	5.15
	(12°C)						
Space heating	A Con-	COPd (declared COP)		3.00	2.62	2.83	2.95
Average climate)	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2
ecommended	(-7°C)	CODd (de dans d COD)		2.00	4.24	4.24	2.00
combination 2		COPd (declared COP)	L/\//	3.80	4.24	4.26	3.89
		Pdh (declared heating cap)	kW	7.45	8.61	9.89	11.1
		COPd (declared COP)	kW	5.35 4.76	5.79	6.39	6.45 7.14
		Pdh (declared heating cap)	KVV		1	6.36	6.94
	D Con- dition	COPd (declared COP) Pdh (declared heating cap)	kW	7.04	7.91	9.39	
	(12°C)	Fun (declared heating cap)	KVV	4.71	5.60	5.80	5.33
		COPd (declared COP)		2.73	2.32	2.38	2.58
	IDivalent	Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tbiv (bivalent temperature)		15.7		0	20.0
	TOL	COPd (declared COP)		2.73	2.32	2.38	2.58
	IUL	Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tol (temperature operating	°C	1017		0	2010
		limit)					
pace heating	A Con-	COPd (declared COP)		3.05	2.68	2.85	2.96
Average climate)	dition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2
ecommended	(-7°C)						
ombination 3	B Condi-	COPd (declared COP)		3.86	4.32	4.24	3.89
	tion (2°C)	Pdh (declared heating cap)	kW	7.39	8.62	9.89	11.1
	C Condi-	COPd (declared COP)		5.35	5.80	6.	.43
	tion (7°C)	Pdh (declared heating cap)	kW	4.75	5.55	6.36	7.15
	D Con-	COPd (declared COP)		7.14	8.02	9.37	6.84
	dition	Pdh (declared heating cap)	kW	4.65	5.56	5.67	5.29
	(12°C)						
	TBivalent	COPd (declared COP)		2.78	2.29	2.41	2.58
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tbiv (bivalent temperature)	°C			0	1
	TOL	COPd (declared COP)		2.78	2.29	2.41	2.58
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6
		Tol (temperature operating	°C		-1	0	
		limit)		<u>^</u>	10	10	
apacity range	Cate		HP	8	10	12	14
PED	Category	Namo				ory III	
	Most critical	Name Ps*V	Bar*l		Liquid i 508	eceiver	617
	part	rs V	DdI"I		SUS		612
Aaximum number	· ·	able indoor units			61	(3)	<u> </u>
ndoor index	Min.			100	125	150	175
connection	Max.			260	325	390	455
Dimensions	Unit	Height	mm	200	1	85	
	2	Width	mm		930		1,240
		Depth	mm			55	.,2.0
	Packed	Height	mm			20	
	unit	Width	mm		995		1,305
	-	Depth	mm			50	.,
Veight	Unit	· · ·	kg		213		296
-	Packed ur	nit	kg		225		309
Packing	Material					ton	
2	Weight		kg		1.5		1.8
Packing 2	Material		-			od	
	Weight		kg		10.0		11.0
Packing 3	Material				Pla	stic	
	Weight		kg		0.6		0.7



1-1 REYA-A

Technical Spe		ons			REYA8A	REYA10A	REYA12A	REYA14A	
Casing	Colour						White		
	Material						ized steel plate		
Heat exchanger	Туре						fin coil		
	Indoor sid						ir		
	Outdoor	side				A	lir		
	Air flow	Cooling	Rated	m³/h	9,145	9,709	10,823	11,576	
	rate	Heating	Rated	m³/h	9,145	9,709	10,823	13,124	
Fan	Quantity					1		2	
	External	Max.		Pa		7	8		
	static								
	pressure								
Fan motor	Quantity					2			
	Туре					DC m	notor		
	Output			W		550		750	
Compressor	Quantity						1		
	Туре					Hermetically sealed	d scroll compressor		
	Crankcas	e heater		W		· · · · · · · · · · · · · · · · · · ·	3		
Operation range	Cooling	Min.		°CDB			5		
		Max.		°CDB			.6		
	Heating	Min.		°CWB			20		
		Max.		°CWB		1			
Sound power level	Cooling	Nom.		dBA	78.3 (4)	78.8 (4)	82.5 (4)	78.7 (4)	
	Heating	Nom.		dBA	79.4 (4)	80.7 (4)	83.3 (4)	82.9 (4)	
Sound pressure	Cooling	Nom.		dBA	56.3 (5)	58.0 (5)	60.8 (5)	58.1 (5)	
level	Heating	NUIII.		dBA			61.9 (5)	61.3 (5)	
				UDA	58.1 (5)	58.8 (5)	32	(5) כ.וס	
Refrigerant	Туре								
	GWP			TCODE			5.0	714	
	Charge			TCO2Eq		6.08		7.16	
	Charge			kg	9.00 10				
Refrigerant oil							58DE		
iping connections Li	5 Liquid	Туре					nnection		
		OD		mm	9.	52		12.70	
	Gas	Туре			Braze connection				
		OD		mm	19.1 22.2			22.2	
	HP/LP	Туре				Braze co	nnection		
	gas	OD		mm	15	90		19.10	
	Total	System	Actual	m		1,00	0 (6)		
	piping								
	length								
Defrost method						Reverse	ed cycle		
Capacity control	Method					Inverter o	ontrolled		
Indication if the hea	ater is equ	ipped with	n a supplemer	ntary heater		n	0		
Supplementary	Back-up	Heating	elbu	kW		0	.0		
heater	capacity								
Power consump-	Crank-	Cooling	РСК	kW		0.0	000		
tion in other than	case	Heating	PCK	kW		0.053		0.058	
active mode	heater	-							
	mode								
	Off mode	Cooling	POFF	kW		0.050		0.058	
		Heating	POFF	kW		0.053		0.058	
	Standby	Cooling	PSB	kW		0.050		0.058	
	mode	Heating	PSB	kW		0.053		0.058	
	Thermo-	J	PTO	kW			001	,	
	stat-off	Heating		kW		0.053		0.058	
	mode							0.000	
Cooling		radation c	oolina)			0	25		
Heating		radation h					25		
Safety devices	Item	01	icating)				sure switch		
Surcey actices	nem	02					rload protector		
		02					oad protector		
		05		[inverter överl			
TashuisalC	-: 6 +'				DEVALCA	DEV	A10 A	DEVADA	
Technical Spe	cincatio	115					A18A	REYA20A	

Technical Spe	ecificatio	ons			REYA16A	REYA18A	REYA20A
Recommended co	mbination				4 x FXFA63A2VEB + 2 x	3 x FXFA50A2VEB + 5 x	2 x FXFA50A2VEB + 6 x
					FXFA80A2VEB	FXFA63A2VEB	FXFA63A2VEB
Recommended co	mbination	2			4 x FXSA63A2VEB + 2 x	3 x FXSA50A2VEB + 5 x	2 x FXSA50A2VEB + 6 x
					FXSA80A2VEB	FXSA63A2VEB	FXSA63A2VEB
Recommended co	mbination	3			4 x FXMA63A5VEB + 2 x	3 x FXMA50A5VEB + 5 x	2 x FXMA50A5VEB + 6 x
					FXMA80A5VEB	FXMA63A5VEB	FXMA63A5VEB
Cooling capacity	Prated,c			kW	45.0 (1)	50.4 (1)	56.0 (1)
Heating capacity	Nom.	6°CWB		kW	45.0 (2)	50.4 (2)	56.0 (2)
	Prated,h			kW	45.0 (2)	50.4 (2)	56.0 (2)
	Max.	6°CWB		kW	50.0 (2)	56.5 (2)	63.0 (2)
Power input - 50H	z Heating	Nom.	6°CWB	kW	12.78 (2)	13.79 (2)	16.61 (2)

1 - 1 REYA-A

Technical Sp		ns		REYA16A	REYA18A	REYA20A
COP at nom.	6°CWB		kW/kW	3.52 (2)	3.66 (2)	3.37 (2)
capacity						
SCOP				4.26	4.39	4.14
SCOP recommend					4.33	4.11
SCOP recommend	ied compina	ition 3		4.32	4.39	4.14
SEER				7.10	7.09	6.63
SEER recommend SEER recommend				7.01 7.15	6.94	6.57 6.64
	eu compina	1011 5	%	281.0	280.6	262.2
ղs,c ղs,c recommende	d combinati	on 2	70	277.4	274.8	259.6
ηs,c recommende				283.1	281.3	262.5
js,h	a combinati	0115	%	167.5	172.5	162.7
s,h recommendeرا	d combinat	ion 2	,,,		70.2	161.4
s,h recommende				169.6	172.7	162.7
pace cooling	A Condi-			3.23	2.73	2.57
J	tion (35°C		kW	45.0	50.4	56.0
	- 27/19)					
	B Condi-	EERd		4.58	4.47	4.42
	tion (30°C	Pdc	kW	33.2	37.1	41.3
	- 27/19)					
	C Condi-			8.25	8.15	7.70
	tion (25°C	Pdc	kW	21.3	23.9	26.5
	- 27/19)					
	D Condi-			16.7	20.7	15.8
	tion (20°C	Pdc	kW	11.1	12.0	11.6
·······	- 27/19)			200	244	0.50
pace cooling	A Condi-		1-14/	3.06	2.64	2.52
ecommended	tion (35°C	Pac	kW	45.0	50.4	56.0
combination 2	- 27/19) B Condi-	FERd		4.64	4.43	4.41
	tion (30°C		kW	33.2	37.1	41.3
	- 27/19)	Tuc -	NVV	55.2	57.1	-I.J
	C Condi-	FEBd		8.11	7.87	7.41
	tion (25°C		kW	21.3	23.9	26.5
	- 27/19)					
	D Condi-	EERd		16.5	20.0	16.6
	tion (20°C					
	- 27/19)					
pace cooling	D Condi-	Pdc	kW	10.8	11.6	11.9
ecommended	tion (20°C					
ombination 2	- 27/19)					
pace cooling	A Condi-			3.04	2.66	2.50
ecommended	tion (35°C	Pdc	kW	45.0	50.4	56.0
ombination 3	- 27/19)	550 1				
	B Condi-		1.14/	4.64	4.49	4.41
	tion (30°C	Pdc	kW	33.2	37.1	41.3
	- 27/19)	EEDd		0 50	8.22	771
	C Condi-		k\\/	8.50		7.71
	tion (25°C - 27/19)	ruc	kW	21.3	23.9	26.5
	- 27/19) D Condi-	FERd		16.7	20.9	16.4
	tion (20°C		kW	10.7	11.9	10.4
	- 27/19)			10.7	11.2	11.0
pace heating		COPd (declared COP)		2.53	2.36	2.23
Average climate)		Pdh (declared heating cap)	kW	23.2	27.9	31.0
<u> </u>		Tbiv (bivalent temperature)			-10	
	TOL	COPd (declared COP)		2.53	2.36	2.23
		Pdh (declared heating cap)	kW	23.2	27.9	31.0
		Tol (temperature operating	°C		-10	
		limit)				
	A Con-	COPd (declared COP)		2.87	2.70	2.60
	dition	Pdh (declared heating cap)	kW	20.5	24.7	27.4
	(-7°C)					
	B Condi-	COPd (declared COP)		3.93	4.19	3.84
	tion (2°C)	Pdh (declared heating cap)	kW	12.5	15.0	16.7
	C Condi-	COPd (declared COP)		6.21	6.22	5.89
	tion (7°C)	Pdh (declared heating cap)	kW	8.03	9.66	10.7
	D Con-	COPd (declared COP)		6.04	6.85	7.70
	dition	Pdh (declared heating cap)	kW	5.07	6.24	7.34
	(12°C)					1



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Technical Spe				2.89	REYA18A	REYA20A		
Space heating Average climate)	A Con- dition	COPd (declared COP) Pdh (declared heating cap)	kW	2.89	2.62 24.7	2.54 27.5		
recommended	(-7°C)	r an (declared heating cap)	IX V V	20.5	24./	21.3		
combination 2		COPd (declared COP)		3.96	4.07	3.79		
		Pdh (declared heating cap)	kW	12.5	15.0	16.7		
		COPd (declared COP)		6.41	6.19	5.98		
	tion (7°C)	Pdh (declared heating cap)	kW	8.04	9.65	10.7		
	D Con-	COPd (declared COP)		6.47	8.15	7.81		
	dition (12°C)	Pdh (declared heating cap)	kW	5.36	7.68	7.69		
	TBivalent	COPd (declared COP)		2.54	2.28	2.18		
		Pdh (declared heating cap)	kW	23.2	27.9	31.0		
		Tbiv (bivalent temperature)	°C		-10	1		
	TOL	COPd (declared COP)		2.54	2.28	2.18		
		Pdh (declared heating cap)	kW	23.2	27.9	31.0		
		Tol (temperature operating limit)	°C		-10	1		
Space heating	A Con-	COPd (declared COP)		2.88	2.73	2.60		
(Average climate) recommended	dition (-7°C)	Pdh (declared heating cap)	kW	20.5	24.8	27.5		
combination 3		COPd (declared COP)		3.95	4.25	3.88		
		Pdh (declared heating cap)	kW	12.5	15.0	16.7		
		COPd (declared COP)		6.34	6.39	6.07		
		Pdh (declared heating cap)	kW	8.03	9.66	10.7		
	D Con-	COPd (declared COP)	1.14/	6.44	5.48	6.15		
	dition (12°C)	Pdh (declared heating cap)	kW	5.32	5.80	5.91		
	TBivalent	COPd (declared COP)	1.1.4	2.54	2.39	2.24		
		Pdh (declared heating cap)	kW	23.2	28.0	31.1		
		Tbiv (bivalent temperature)	°C	254	-10	224		
	TOL	COPd (declared COP)	1/1/	2.54	2.39	2.24		
		Pdh (declared heating cap) Tol (temperature operating	kW °C	23.2	-10	31.1		
		limit)			-10			
Capacity range			HP	16	18	20		
PED	Category			10	Category III	20		
	Most	Name			Liquid receiver			
	critical part	Ps*V	Bar*l	612	76	54		
Maximum number		able indoor units			64 (3)			
Indoor index	Min.			200	225	250		
connection	Max.			520	585	650		
Dimensions	Unit	Height	mm		1,685			
		Width	mm		1,240			
		Depth	mm		765			
	Packed	Height	mm	1,820				
	unit	Width	mm	1,305				
		Depth	mm		860			
Weight	Unit		kg	296	3:			
	Packed ur	nit	kg	309		32		
Packing	Material				Carton			
De alvia de 2	Weight		kg		1.8			
Packing 2	Material		ka		Wood			
Packing ?	Weight		kg		11.0 Plastic			
Packing 3	Material Weight		kg		Plastic 0.7			
Casing	Colour		NY		0.7 Daikin White			
casing	Material				Painted galvanized steel plate			
Heat exchanger	Туре				Cross fin coil			
	Indoor sic	le			Air			
	Outdoor				Air			
	Air flow	Cooling Rated	m³/h	14,315	12,351	14,893		
	rate	Heating Rated	m³/h	14,315	12,351	14,893		
Fan	Quantity External	•	Pa		2 78			
	static				,0			
	pressure							
Fan motor	Quantity			2				
	Туре			2 DC motor				
	Output		W	750				
Compressor	Quantity			1				
•	Туре			Hermetically sealed scroll compressor				
				Hermetically sealed scroll compressor 33				

1 - 1 REYA-A

Technical Spe	cificatio	ns			REYA16A	REYA18A	REYA20A		
Operation range	Cooling	Min.		°CDB		-5			
		Max.		°CDB		46			
	Heating	Min.		°CWB		-20			
		Max.		°CWB		16			
Sound power level	Cooling	Nom.		dBA	83.7 (4)	83.4 (4)	87.9 (4)		
	Heating	Nom.		dBA	86.3 (4)	85.1 (4)	89.6 (4)		
Sound pressure	Cooling	Nom.		dBA	61.4 (5)	63.0 (5)	67.0 (5)		
level	Heating			dBA	64.5 (5)	64.0 (5)	68.0 (5)		
Refrigerant	Туре					R-32			
	GWP					675.0			
	Charge			TCO2Eq		7.16			
	Charge			kg		10.6			
Refrigerant oil	Туре				FW68DE				
Piping connections	Liquid	Туре				Braze connection			
		OD		mm		12.70			
	Gas	Туре				Braze connection			
		OD		mm		22.2	28.6		
	HP/LP	Туре				Braze connection			
	gas	OD		mm		19.10	22.20		
p	Total	System	Actual	m		1,000 (6)			
	piping length								
Defrost method	length					Reversed cycle			
Capacity control	Method					Inverter controlled			
Indication if the heat	ater is equi	pped with	n a supplemer	ntary heater	no				
Supplementary	Back-up	Heating	elbu	kW		0.0			
heater	capacity								
Power consump-	Crank-	Cooling	PCK	kW		0.000			
tion in other than	case	Heating	PCK	kW		0.058			
active mode	heater mode								
	Off mode	Cooling	POFF	kW		0.058			
		Heating	POFF	kW		0.058			
	Standby	Cooling	PSB	kW		0.058			
	mode	Heating	PSB	kW		0.058			
	Thermo-	Cooling	РТО	kW		0.001			
	stat-off	Heating	РТО	kW		0.058			
	mode								
Cooling	Cdc (Deg	radation c	ooling)			0.25			
Heating	Cdh (Deg					0.25			
Safety devices	Item	01	-			High pressure switch			
-		02				Fan driver overload protector			
		03		i		Inverter overload protector			

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

Standard accessories: Connection pipes; Quantity: 1;

Electrical Sp	ecifications			REYA8A	REYA10A	REYA12A	REYA14A		
Power supply	Name			Y1					
	Phase			3N~					
	Frequency		Hz		5	0			
	Voltage		V		380	-415			
Power supply int	ake				Both indoor an	d outdoor unit			
Voltage range	Min.		%		-1	0			
	Max.		%		1	0			
Current	Nominal Cooling running	9	A	10.5 (7)	13.0 (7)	15.6 (7)	18.5 (7)		
	current								
	(RLA)								
Current - 50Hz	Nominal Combin	na- Cooling				-			
	running tion A								
	current Combin	na- Cooling		-					
	(RLA) tion B								
	Starting current (I	MSC) - remark		See note 8					
	Zmax List			No requirements					
	Minimum Ssc valu	ie	kVa	2,789 (9)	3,810 (9)	4,157 (9)	4,676 (9)		
	Minimum circuit amps (MCA) A			16.1 (10)	22.0 (10)	24.0 (10)	27.0 (10)		
	Maximum fuse amps (MFA) A			20 (11)	25 (11)	32	(11)		
Power Perfor-	Power Combin	na- <u>35°C ISO - Full</u>	load		-	-			
mance	factor tion B	46°C ISO - Full	load						



1 - 1 **REYA-A**

Electrical Sp	ecificatio	ons	REYA8A	REYA10A	REYA12A	REYA14A
Viring connec- ions - 50Hz	For power supply	Quantity		5G		
	For	Quantity		2		
	connec- tion with indoor	Remark		F1,F2		

Electrical Sp	ecifications		REYA16A	REYA18A	REYA20A		
Power supply	Name			Y1			
	Phase		3N~				
	Frequency	Hz		50			
	Voltage	V		380-415			
Power supply int	ake			Both indoor and outdoor unit			
Voltage range	Min.	%		-10			
	Max.	%		10			
Current	Nominal Cooling running current	A	21.0 (7)	27.8 (7)	32.8 (7)		
	(RLA)						
Current - 50Hz	Nominal Combina- Cooling			-			
	running tion A						
	current Combina- Cooling (RLA) tion B			-			
	Starting current (MSC) - remar			See note 8			
	Zmax List	\	No requirements				
	Minimum Ssc value	kVa					
	Minimum circuit amps (MCA)	A	31.0 (10)	35.0 (10)	7,274 (9) 42.0 (10)		
	Maximum fuse amps (MFA)	A	40	50 (11)			
Power Perfor-	Power Combina- 35°C ISO			-	50(11)		
mance	factor tion B 46°C ISO	- Full load		-			
Wiring connec- tions - 50Hz	For Quantity power supply		5G				
	For Quantity		2				
	connec- Remark tion with indoor			F1,F2			

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; 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)Sound power level is an absolute value that a sound source generates. |

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

(7)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB | (8)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always \leq max. running current. | (9)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 \geq minimum Ssc value |

(10)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. | (11)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

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

(14)Sound values are measured in a semi-anechoic room. | (15)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 ≤ 75A per phase | (16)Ssc: Short-circuit power |

(17)For detailed contents of standard accessories, see installation/operation manual

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

Technical spe	cificatio	ons Syst	em		REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	
System	Outdoor	unit modu	ule 1		REN	A5A		REYA8A		
	Outdoor	unit modu	ule 2		REMA5A	REY	A8A	REYA10A	REYA12A	
Recommended co	mbination				4 x FXFA63A2VEB	3 x FXFA50A2VEB +	4 x FXFA63A2VEB +	4 x FXFA50A2VEB +	10 x FXFA50A2VEB	
						3 x FXFA63A2VEB	2 x FXFA80A2VEB	4 x FXFA63A2VEB		
Recommended co	mbination	2			4 x FXSA63A2VEB	3 x FXSA50A2VEB +	4 x FXSA63A2VEB +	4 x FXSA50A2VEB +	10 x FXSA50A2VEB	
						3 x FXSA63A2VEB	2 x FXSA80A2VEB	4 x FXSA63A2VEB		
Recommended co	mbination	3			4 x FXMA63A5VEB	3 x FXMA50A5VEB +	4 x FXMA63A5VEB +	4 x FXMA50A5VEB	10 x FXMA50A5VEB	
						3 x FXMA50A5VEB	2 x FXMA80A5VEB	+ 4 x FXMA63A5VEB		
Continuous heatin	g				Yes					
Cooling capacity	Prated,c			kW	28.0 (1)	36.4 (1)	44.8 (1)	50.4 (1)	55.9 (1)	
Heating capacity	Nom.	6°CWB		kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)	
	Prated,h			kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)	
	Max.	6°CWB		kW	32.0 (2)	41.0 (2)	50.0 (2)	56.5 (2)	62.5 (2)	
Power input - 50Hz	. Heating	Nom.	6°CWB	kW	7.66 (2)	9.69 (2)	12.05 (2)	13.97 (2)	15.54 (2)	
COP at nom.	6°CWB			kW/kW	3.66 (2)	3.76 (2)	3.72 (2)	3.61 (2)	3.60 (2)	
capacity										
SCOP					4.09	4.11	4.35	4.34	4.38	
SCOP recommend	ed combin	ation 2			4.14	4.19	4.38	4.40	4.48	

1-1 REYA-A

Technical spe				REYA10A	REYA13A	REYA16A	REYA18A	REYA20A
SCOP recommend	ed combina	ation 3		4.16	4.22	4.37	4.46	4.50
SEER				7.62	7.49	7.40	7.26	7.27
SEER recommende				7.30	7.15	6.93	6.95	6.94
SEER recommende	ed combina	tion 3		7.61	7.57	7.31	7.30	7.48
ηs,c			%	301.9	296.5	293.0	287.5	287.6
ηs,c recommende				289.0	282.9	274.2	275.2	274.8
ηs,c recommende	d combinat	ion 3		301.2	299.8	289.4	288.9	296.1
ηs,h			%	160.6	161.5	170.9	170.5	172.2
ηs,h recommende				162.5	164.8	172.2	173.2	176.4
ηs,h recommende	d combinat	ion 3		163.4	165.8	171.8	175.4	177.0
Space cooling	A Condi-			3.81	3.46	3.25	3.26	3.24
	tion (35°C - 27/19)	Pdc	kW	28.0	36.4	44.8	50.4	55.9
	B Condi-	EERd		7.73	6.08	5.41	5.18	4.89
	tion (30°C - 27/19)	Pdc	kW	20.6	26.8	33.0	37.1	41.2
	C Condi-	FERd		8.99	9.04	9.11	8.76	8.70
	tion (25°C		kW	13.5	18.0	21.2	23.9	26.5
	- 27/19)					- 1.2		20.5
	D Condi-	EERd		11.5	13.9	15	5.0	16.4
	tion (20°C		kW	14.1	15.5	15.9	16.3	16.7
	- 27/19)							
Space cooling	A Condi-	EERd		3.67	3.36	3.14	3.23	3.09
recommended combination 2	tion (35°C - 27/19)		kW	28.0	36.4	44.8	50.4	55.9
	B Condi-	EERd		7.32	5.78	5.00	4.94	4.75
	tion (30°C - 27/19)		kW	20.6	26.8	33.0	37.1	41.2
Space cooling	C Condi-	EED4		8.54	8.53	8.36	8.27	8.17
recommended	tion (25°C		kW	13.3	17.8	21.2	23.9	26.5
combination 2	- 27/19)	. Fuc	K V V	15.5	17.0	21.2	23.9	20.5
combination 2	D Condi-	FERd		11.1	13.3	1/	1.3	15.7
	tion (20°C		kW	13.7	15.0	15.5	15.8	16.0
	- 27/19)	- Tuc		15.7	15.0	15.5	15.0	10.0
Space cooling	A Condi-	FERd		3.71	3.41	3.18	3.25	3.27
recommended	tion (35°C		kW	28.0	36.4	44.8	50.4	55.9
combination 3	- 27/19)			2010	5011		5011	5517
	B Condi-	EERd		7.71	6.12	5.24	5.08	5.04
	tion (30°C		kW	20.6	26.8	33.0	37.1	41.2
	- 27/19)			2010	2010	5510	5711	
	C Condi-	EERd		8.99	9.22	9.04	8.94	9.03
	tion (25°C		kW	13.5	18.1	21.2	23.9	26.5
	- 27/19)							
	D Condi-	EERd		11.6	14.2	15.2	15.4	16.9
	tion (20°C	Pdc	kW	14.1	15.5	16.0	16.3	16.7
	- 27/19)							
Space heating	TBivalent	COPd (declared COP)		2.69	2.74	2.87	2.51	2.55
Average climate)		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0
		Tbiv (bivalent temperature)	°C			-10		
	TOL	COPd (declared COP)		2.69	2.74	2.87	2.51	2.55
		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0
		Tol (temperature operating	°C			-10		
		limit)						
	A Con-	COPd (declared COP)		3.00	3.03	3.18	2.87	2.95
	dition	Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.4
	(-7°C)			4.27	4.00	4 17	4.20	4.00
		COPd (declared COP)	1.).0/	4.37	4.02	4.17	4.20	4.09
		Pdh (declared heating cap)	kW	8.60	11.7	12.5	15.0	16.7
		COPd (declared COP)	1.1.47	4.70	5.11	5.45	5.60	5.90
	tion (7°C)	Pdh (declared heating cap)	kW	7.17	8.40	8.05	9.66	10.7
	2.6				6.47	6.93	7.49	8.06
	D Con- dition	COPd (declared COP) Pdh (declared heating cap)	kW	5.57 8.74	6.47 8.93	9.04	9.97	10.0

2 Specifications 1 - 1 REYA-A

Technical spe				REYA10A	REYA13A	REYA16A	REYA18A	REYA20A		
Space heating	A Con-	COPd (declared COP)	1.1.4	3.02	3.05	3.18	2.86	2.96		
(Average climate) recommended	dition (-7°C)	Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.4		
ombination 2	B Condi-	COPd (declared COP)		4.43	4.12	4.18	4.27	4.21		
	tion (2°C)	Pdh (declared heating cap)	kW	8.64	11.7	12.5	15.0	16.7		
	C Condi-	COPd (declared COP)		4.76	5.24	5.57	5.78	6.07		
	tion (7°C)	Pdh (declared heating cap)	kW	7.31	8.54	8.08	9.65	10.7		
	D Con-	COPd (declared COP)		5.62	6.58	6.97	7.59	8.30		
	dition (12°C)	Pdh (declared heating cap)	kW	8.87	9.17	9.24	10.3	10.5		
		COPd (declared COP)		2.70	2.26	2.38	2.27	2.34		
	. Dirtaicint	Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0		
		Tbiv (bivalent temperature)	°C			-10				
pace heating	TOL	COPd (declared COP)		2.70	2.26	2.38	2.27	2.34		
Average climate)		Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0		
ecommended		Tol (temperature operating	°C			-10				
combination 2		limit)	-							
pace heating	A Con-	COPd (declared COP)		3.03	3.07	3.17	2.91	2.99		
Average climate) ecommended	dition (-7°C)	Pdh (declared heating cap)	kW	14.2	19.2	20.5	24.7	27.5		
combination 3		COPd (declared COP)		4.48	4.14	4.19	4.35	4.22		
		Pdh (declared heating cap)	kW	8.61	11.7	12.5	15.0	16.7		
		COPd (declared COP)		4.76	5.25	5.52	5.77	6.07		
		Pdh (declared heating cap)	kW	7.28	8.49	8.04	9.67	10.7		
	D Con-	COPd (declared COP)		5.62	6.64	6.94	7.69	8.32		
	dition (12°C)	Pdh (declared heating cap)	kW	8.85	9.13	9.17	10.2	10.3		
		COPd (declared COP)		2.71	2.78	2.86	2.53	2.59		
	ibivalent	Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0		
		Tbiv (bivalent temperature)	°C	10.0	21.7	-10	21.9	51.0		
	TOL	COPd (declared COP)	C	2.71	2.78	2.86	2.53	2.59		
	IOL	Pdh (declared heating cap)	kW	16.0	21.7	23.2	27.9	31.0		
		Tol (temperature operating	°C	10.0	21.7	-10	21.5	51.0		
<u> </u>		limit)		10	12		10	20		
Capacity range	6.1		HP	10	13	16	18	20		
PED	Category	- Liste de la complete				Category III				
Maximum number		able indoor units		125	1(2)	64 (3)	225	250		
ndoor index connection	Min.			125	163	200	225	250		
	Max.	1.		325	423	520	585	650		
leat exchanger	Indoor sid					Air				
	Outdoors		3/1		10.000	Air	10.051	10.070		
	Air flow	Cooling Rated	m ³ /h		18,290		18,854	19,968		
	rate	Heating Rated	m³/h		18,290		18,854	19,968		
ound power level		Nom.	dBA		81.3 (4)		81.6 (4)	83.9 (4)		
	Heating	Nom.	dBA		82.4 (4)		83.1 (4)	84.8 (4)		
Sound pressure	Cooling	Nom.	dBA		59.3 (5)		60.2 (5)	62.1 (5)		
evel	Heating		dBA		61.1 (5)	D 22	61.5 (5)	63.4 (5)		
Refrigerant	Туре					R-32				
african to the	GWP					675.0				
Refrigerant oil	Туре	T				FW68DE				
Piping connections	s Liquid	Туре		0.52	1	Braze connection	70			
	6	OD	mm	9.52			.70			
	Gas	Туре		10.1	1	Braze connection		20.6		
		OD	mm	19.1		22.2		28.6		
		Туре			1	Braze connection				
Piping connections	gas	OD .	mm	15.90 19.10 22.20						
Piping connections		System Actual	m	500 (6)						
Piping connections	Total piping									
		-				David La L				
Defrost method	piping length	·				Reversed cycle				
Piping connections Defrost method Capacity control	piping length Method					Inverter controlled				
Defrost method Capacity control	piping length Method Pater is equi	pped with a supplementary h Heating elbu	neater kW							

1 - 1 REYA-A

Technical spe					REYA10A		A16A REYA18/	A REYA20A				
ower consump-	Crank-	Cooling	РСК	kW			000					
ion in other than active mode	case heater	Heating	РСК	kW		0.1	106					
	mode Off mode	Cooling	POFF	kW	0.100							
		Heating	POFF	kW		0.1	106					
	,	Cooling	PSB	kW			100					
	mode	Heating		kW			106					
	Thermo-		PTO	kW			002					
	stat-off mode	Heating	ΡΤΟ	kW		0.3	106					
Cooling Heating		radation c radation h					25 25					
							25					
Technical spe System		ns Syst unit modu			REYA22A REYA10A	REYA24A REYA8A	REYA26A	A12A REYA28A				
bystern		unit modu			REYA12A	REYA16A	REYA14A	REYA16A				
Recommended cor		unit mouu	iie z		6 x FXFA50A2VEB + 4 x	4 x FXFA50A2VEB + 4	7 x FXFA50A2VEB + 5 x	6 x FXFA50A2VEB + 4				
					FXFA63A2VEB	x FXFA63A2VEB + 2 x FXFA80A2VEB	FXFA63A2VEB	x FXFA63A2VEB + 2 x FXFA80A2VEB				
Recommended co	mhination	2			6 x FXSA50A2VEB + 4 x	4 x FXSA50A2VEB + 4	7 x FXSA50A2VEB + 5 x	6 x FXSA50A2VEB + 4				
necommended CO	momation.	<u>~</u>			FXSA63A2VEB + 4 x	x FXSA63A2VEB + 2 x	FXSA63A2VEB + 5 X	x FXSA63A2VEB + 2 x				
0.0000000000000000000000000000000000000	mbinetie	2			6 x FXMA50A5VEB + 4 x	FXSA80A2VEB 4 x FXMA50A5VEB + 4	7 x FXMA50A5VEB + 5 x	FXSA80A2VEB 6 x FXMA50A5VEB + 4				
Recommended combination 3					FXMA50A5VEB + 4 x	x FXMA63A5VEB + 2 x	FXMA63A5VEB + 5 X	x FXMA63A5VEB + 2 x				
Continuous heatin	g					FXMA80A5VEB	es	FXMA80A5VEB				
Cooling capacity	Prated,c			kW	61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)				
leating capacity	Nom.	6°CWB		kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)				
	Prated,h			kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)				
	Max.	6°CWB		kW	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)				
ower input - 50Hz	Heating	Nom.	6°CWB	kW	17.80 (2)	18.63 (2)	20.89 (2)	22.46 (2)				
COP at nom. apacity	6°CWB			kW/kW	3.46 (2)	3.62 (2)	3.52 (2)	3.49 (2)				
SCOP					4.41	4.20	4.38	4.36				
COP recommende	ed combina	ation 2			4.45	4.24	4.44	4.43				
COP recommende	ed combina	ation 3			4.48	4.25	4.44	4.43				
SEER					7.17	7.16	7.48	7.15				
EER recommende					6.88	7.01	7.23	6.96				
SEER recommende	d combina	tion 3			7.28	7.29	7.61	7.26				
լs,c				%	283.6	283.4	296.2	282.8				
s,c recommendec <u>,</u>					272.1	277.3	286.4	275.6				
s,c recommended	d combinat	ion 3		0/	288.2	288.7	301.3	287.4				
s,h אין אין אין אין אין אין אין אין אין אין				%	173.3	165.2	172.0	171.5				
s,h recommended) s,h recommended)					175.1 176.3	166.6	174.4 174.5	174.3 174.0				
.,					3.25	3.24	3.25	3.23				
pace cooling	tion (35°C			kW	61.5	67.4	73.5	78.5				
	- 27/19)	EED-1				70		4.50				
	B Condi- tion (30°C			kW	45.3	49.7	4.77 54.2	4.59 57.8				
	- 27/19)				0.47	0.50	0.01	0.00				
	C Condi- tion (25°C			kW	8.47 29.1	8.52 31.9	8.61 34.8	8.33 37.2				
	- 27/19)											
	D Condi-				16.2	16.0	20.1	17.1				
	tion (20°C - 27/19)	Pdc		kW	16.8	19.2	19.5	19.7				
pace cooling	A Condi-	EERd			3.10	3.11	3.12	3.03				
ecommended combination 2	tion (35°C - 27/19)	on (35°C Pdc kW		61.5	67.4	73.5	78.5					
		iondi- EERd		4.67 4.78		4.71 4.60						
	tion (30°C - 27/19)			kW	45.3	49.7	54.2	57.8				
pace cooling	C Condi-	FFRd			8.00	8.25	8.17	8.04				
ecommended	tion (25°C			kW	29.1	31.9	34.8	37.2				
combination 2	- 27/19) D Condi-	FERd			15.4	15.6	19.3	16.7				
	tion (20°C			kW	16.2	18.6	18.8	19.0				





2 Specifications 1 - 1 REYA-A

Technical spe				REYA22A	REYA24A	REYA26A	REYA28A
Space cooling	A Condi-		1.34/	3.25	3.13	3.27	3.12
recommended combination 3	tion (35°C - 27/19)	Pac	kW	61.5	67.4	73.5	78.5
combination 5	B Condi-	EERd		4.79	4.94	4.82	4.66
	tion (30°C		kW	45.3	49.7	54.1	57.8
	- 27/19)						
	C Condi-			8.71	8.77	8.83	8.64
	tion (25°C	Pdc	kW	29.1	31.9	34.8	37.2
	- 27/19)						
	D Condi-		1344	16.6	16.2	20.5	17.5
	tion (20°C - 27/19)	. Pdc	kW	16.6	18.9	19.4	19.3
Space heating		COPd (declared COP)		2.33	2.62	2.48	2.46
(Average climate)	IDivalent	Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6
		Tbiv (bivalent temperature)	°C	5		10	1110
	TOL	COPd (declared COP)		2.33	2.62	2.48	2.46
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6
		Tol (temperature operating	°C		-	10	
		limit)			1	1	1
	A Con-	COPd (declared COP)		2.76	2.94	2.89	2.85
	dition	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8
	(-7°C) B Condi-	COPd (declared COP)		4.19	3.89	3.99	4.03
		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4
		COPd (declared COP)		6.02	5.82	6.32	6.26
		Pdh (declared heating cap)	kW	11.9	12.8	13.5	14.4
	D Con-	COPd (declared COP)		8.49	6.47	7.76	7.33
	dition	Pdh (declared heating cap)	kW	11.0	9.58	10.7	10.6
	(12°C)	· · · · · · · · · · · · · · · · · · ·					
Space heating	A Con-	COPd (declared COP)		2.73	2.93	2.89	2.86
(Average climate)	dition	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8
recommended	(-7°C)	CODd (do clare d COD)		4.25	2.00	4.00	4.00
combination 2		COPd (declared COP)	1/1/	4.25	3.90 19.9	4.06	4.09
		Pdh (declared heating cap) COPd (declared COP)	kW	18.5 6.10	5.97	6.42	22.4 6.40
		Pdh (declared heating cap)	kW	11.9	12.8	13.5	14.4
	D Con-	COPd (declared COP)	14.4.4	8.60	6.72	8.03	7.72
	dition (12°C)	Pdh (declared heating cap)	kW	11.4	10.1	11.1	11.2
		COPd (declared COP)		2.26	2.17	2.24	2.20
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6
		Tbiv (bivalent temperature)	°C			10	·
Space heating	TOL	COPd (declared COP)		2.26	2.17	2.24	2.20
(Average climate)		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6
recommended		Tol (temperature operating	°C		-	10	
combination 2		limit)					
Space heating	A Con-	COPd (declared COP)	1.14	2.77	2.95	2.91	2.87
(Average climate) recommended	dition (-7°C)	Pdh (declared heating cap)	kW	30.5	32.7	34.6	36.9
recommended combination 3	B Condi-	COPd (declared COP)		4.28	3.92	4.05	4.08
		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4
		COPd (declared COP)		6.12	5.93	6.43	6.38
		Pdh (declared heating cap)	kW	11.9	12.8	13.5	14.4
	D Con-	COPd (declared COP)		8.65	6.75	7.95	7.68
	dition	Pdh (declared heating cap)	kW	11.2	9.97	11	1.0
	(12°C)						1
	TBivalent	COPd (declared COP)		2.35	2.62	2.50	2.48
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6
	TO	Tbiv (bivalent temperature)	°C	2.25		2.50	2.40
	TOL	COPd (declared COP) Pdh (declared heating cap)	kW	2.35 34.4	2.62 36.9	2.50 39.0	2.48 41.6
		Tol (temperature operating	°C	34.4		<u> </u>	41.0
		limit)			-		
Capacity range			HP	22	24	26	28
PED	Category			-		jory III	
Maximum number						(3)	
Indoor index	Min.			275	300	325	350
connection	Max.			715	780	845	910
Heat exchanger	Indoor sid					ir	
	Outdoors				1	ir	1
	Air flow	Cooling Rated	m³/h	20,532	23,460	22,399	25,138
	rate	Heating Rated	m³/h	20,532	23,460	23,947	25,138

1-1 REYA-A

Technical spe			em		REYA22A	REYA2		REYA26A	REYA28A			
Sound power level				dBA	84.0 (4)	84.8 (4		84.0 (4)	86.2 (4)			
C	Heating	Nom.		dBA	85.2 (4)	87.1 (4))	86.1 (4)	88.1 (4)			
Sound pressure level	Cooling	Nom.		dBA dBA		62.6 (5)	<u>, </u>	62.7 (5)	64.1 (5) 66.4 (5)			
Refrigerant	Heating Type			UDA	63.6 (5)	65.4 (5	R-32	64.6 (5)	00.4 (5)			
nemgerant	GWP						675.0					
Refrigerant oil	Туре						FW68DE					
Piping connections		Туре					Braze connecti	on				
		OD		mm		12.70		15.90				
	Gas	Туре					Braze connecti	on				
		OD		mm			28.6					
Piping connections		Туре					Braze connecti	on				
	gas	OD		mm			22.20					
	Total piping length	System	Actual	m	1,000 (6)							
Defrost method	lengen						Reversed cycl	e				
Capacity control	Method						Inverter control					
Indication if the hea	ater is equ	ipped with	h a supplement	ary heater			no					
Supplementary	Back-up	Heating	elbu	kW			0.0					
heater	capacity											
Power consump-	Crank-	Cooling	PCK	kW			0.000					
tion in other than	case	Heating	РСК	kW	0.106			0.111				
active mode	heater mode											
		Cooling	POFF	kW	0.100			0.108				
	5moue	Heating	POFF	kW	0.106		0.108					
	Standby	Cooling	PSB	kW	0.100		0.108					
	mode	Heating	PSB	kW	0.106			0.111				
	Thermo-	Cooling	РТО	kW			0.002					
	stat-off mode	Heating	РТО	kW	0.106	0.121		0.111	0.121			
Cooling		radation c					0.25					
Heating	Cdh (Deg	radation h	neating)				0.25					
Electrical spe	cificatio	ns Syst	em		REYA10A	REYA13A	REYA16A	REYA18A	REYA20			
Power supply	Name						Y1					
,	Phase						3N~					
	Frequence	2y		Hz			50					
	Voltage			V			380-415					
Power supply intak						Both	indoor and outo	door unit				
Voltage range	Min.			%			-10					
	Max.			%			10		-			
Current	Nominal running current (RLA)	Cooling		A	11.2 (7)	16.0 (7)	20.9 (7)	23.4 (7)	26.1 (7)			
Current - 50Hz		Combina tion A	a- Cooling									
	current (RLA)		a- Cooling		-							
	Starting	current (M	SC) - remark		See note 8							
	Zmax	List					No requiremer	nts				
		n Ssc value		kVa	5,196 (9)	5,387 (9)	5,577 (9)	6,599 (9)	6,945 (9)			
			nps (MCA)	A	30.0 (10)	31.1 (10)	32.2 (10)	38.1 (10)	40.1 (10)			
Dannar Danford		n fuse amp		A		40 (11)			50 (11)			
Power Perfor-	Power		a- 35°C ISO - Ful				-					
mance Wiring connoc	factor	tion B	46°C ISO - Ful	1090			- 5G					
Wiring connec- tions - 50Hz	For power supply	Quantity	,				ÐC					
	For	Quantity	1				2					
	connec-	Remark					F1,F2					
	tion with											
	indoor											
Electrical spe	cificatio	ns Syst	em		REYA22A	REYA2	4A	REYA26A	REYA28A			

Electrical sp	pecifications System		REYA22A	REYA24A	REYA28A				
Power supply	Name		Y1						
	Phase			3N	~				
	Frequency	Hz		50	0				
	Voltage	V		380-	-415				
Power supply intake			Both indoor and outdoor unit						



1 - 1 REYA-A

Electrical spec		ns System		REYA22A	REYA24A	REYA26A	REYA28A			
Voltage range	Min.		%		-1					
C	Max.	Casting	%	20 4 (7)	1(ar = (=)			
Current	Nominal	Cooling	A	28.6 (7)	31.5 (7)	34.1 (7)	36.7 (7)			
	running									
	current									
C	(RLA)	Combine Contin								
Current - 50Hz		Combina- Cooling			-					
	running	tion A								
	current	Combina- Cooling			-					
	(RLA)	tion B								
		urrent (MSC) - remark			See n					
	Zmax	List			No requi					
		Ssc value	kVa	7,967 (9)	8,158 (9)	8,833 (9)	9,526 (9)			
		circuit amps (MCA)	A	46.0 (10)	47.1 (10)	51.0 (10)	55.0 (10)			
		n fuse amps (MFA)	A		63 (11)				
Power Perfor-	Power	Combina- 35°C ISO - Fu	lload							
mance	factor	tion B 46°C ISO - Fu	ll load		-					
Wiring connec-	For	Quantity			50	5				
tions - 50Hz	power									
	supply									
	For	Quantity			2					
	connec-	Remark			F1,	F2				
	tion with									
	indoor									
Technical spee		ns Module			REM					
Cooling capacity	Prated,c		kW		14.0					
Heating capacity	Max.	6°CWB	kW		16.0	(2)				
Capacity range			HP		5					
PED	Category				Categ	ory III				
	Most	Name		Liquid receiver						
	critical	Ps*V	Bar*l		50					
	part									
Maximum number	of connect	table indoor units			64	(3)				
Indoor index	Min.				6.	3				
connection	Max.				16	3				
Dimensions	Unit Height mm		mm		1,6	35				
		Width	mm		93	0				
		Depth	mm	765						
	Packed	Height	mm	1,820						
	unit	Width	mm	995						
		Depth	mm	860						
Weight	Unit	· ·	kg		21					
2	Packed ur	nit	kg		22					
Packing	Material				Car					
	Weight		kg		1.					
Packing 2	Material		ĸy		Wo					
acking z	Weight		ka		10					
Packing 3	Material		kg							
acking 3					Plas					
Casing	Weight		kg		0. Daikin					
Casing	Colour				Daikin					
Level work	Material				Painted galvani					
Heat exchanger	Туре	1.			Cross f					
	Indoor sid				A					
	Outdoors		3		A					
	Air flow	Cooling Rated	m³/h		9,1					
	rate	Heating Rated	m³/h		9,1					
Fan	Quantity				1					
	External	Max.	Pa		78	3				
	static									
	pressure									
an motor	Quantity				1					
	Туре				DC m	otor				
	Output		W		55	0				
Compressor	Quantity				1					
Compressor	Туре				Hermetically sealed	scroll compressor				
	Crankcase	e heater	W		3					
Operation range	Cooling	Min.	°CDB		-[
		Max.	°CDB		4					
	Heating	Min.	°CWB		-2					
	neuting	Max.	°CWB		-2					
Sound nower lovel	Cooling	0								
Journa power level										
Sound power level	Cooling Heating	Nom. Nom.	dBA dBA		78.3 79.4					

1 - 1 **REYA-A**

Technical spee	cificatio	ons Module		REMA5A
Sound pressure	Cooling	Nom.	dBA	56.3 (5)
level	Heating		dBA	58.1 (5)
Refrigerant	Туре			R-32
	GWP			675.0
	Charge		TCO2Eq	6.08
	Charge		kg	9.00
Refrigerant oil	Туре			FW68DE
Piping connections	Liquid	Туре		Braze connection
		OD	mm	9.52
	Gas	Туре		Braze connection
		OD	mm	19.1
	HP/LP	Туре		Braze connection
	gas	OD	mm	15.90
Defrost method	J			Reversed cycle
Capacity control	Method			Inverter controlled
Safety devices	Item	01		High pressure switch
		02		Fan driver overload protector
		02		Inverter overload protector
		05		
Electrical spec	ificatio	ns Module		REMA5A
Power supply	Name			Y1
	Phase			3N~
	Frequenc	v	Hz	50
	Voltage		V	380-415
Power supply intake				Both indoor and outdoor unit
Voltage range	Min.		%	-10
voltage lange	Max.		%	10
Current	Nominal	Cooling	A	5.6 (7)
current	running	cooling	~	5.0 (7)
	current			
	(RLA)			
Current - 50Hz	Nominal	Combina- Cooling		
current sonz	running	tion A		
	current	Combina- Cooling		
	(RLA)	tion B		
		current (MSC) - remark		See note 8
	Zmax	List		No requirements
		Ssc value	kVa	2,598 (9)
		i circuit amps (MCA)	A	15.0 (10)
		n fuse amps (MFA)	A	20 (11)
Power Perfor-	Power	Combina- 35°C ISO - Full Io		20 (11)
mance	factor	tion B 46°C ISO - Full Io		· · · · · · · · · · · · · · · · · · ·
			du	- 5G
Wiring connec-	For	Quantity		56
tions - 50Hz	power			
	supply	Q		
	For	Quantity		2
	connec-	Remark		F1,F2
	tion with			
	indoor		I	

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

(2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent piping: 15,5m; level difference: 0m | (3)The actual number of units depends on the connection ratio (CR) and the restrictions for the system. |

(4)Sound power level is an absolute value that a sound source generates.

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

(7)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB | (8)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always \leq max. running current. |

(9)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 | (10)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |

(11)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

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

(14)Sound values are measured in a semi-anechoic room. ((15)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 ≤ 75A per phase | (16)Ssc: Short-circuit power |

(17)For detailed contents of standard accessories, see installation/operation manual |

(18)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

			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
Defecticist	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·.

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Combination table 4

4 - 1 Combination Table

REYA-A REMA5A

VRV5

Heat recovery

Multi-unit standard combinations table

		БНР	8НР	10HP	12HP	14HP	16HP	18HP	20HP
	REMA5* (*1)	1							
S	REYA8*		1						
Non-continuous heating	REYA10*			1					
-continu heating	REYA12*				1				
ati	REYA14*					1			
h c	REYA16*						1		
No	REYA18*							1	
z	REYA20*								1
	REYA10*	2							
ts in	REYA13* REYA16* REYA18* REYA20* REYA22* REYA24*	1	1						
eat	REYA16*		2						
r p	REYA18*		1	1					
on of	REYA20*		1		1				
nt or	REYA22*			1	1				
oti			1				1		
Continuous heating ·2· outdoor units	REYA26*				1	1			
Ŭ	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 $\cdot 2 \cdot$ units to create a multi-combination.

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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 (·CR1·) of the sum of all ·FXDA10A· units in the system ≤ ·65·%, and ALL other ·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.

·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·65·%.
·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·55·%.
·CR1· of the sum of all ·FXDA10A· indoor units in the system must be \leq ·40·%.
·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.

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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 \cdot FXDA10A· units in the system $\leq \cdot 65 \cdot \%$, and ALL other \cdot VRV DX·indoor units have an individual capacity class > $\cdot 50 \cdot$: 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 ·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 ≤ 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 ·5·%.
° 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·%.
 - $^{\circ}$ 110% < CR \leq 115% -> · · CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be \leq ·40·%.
 - $^{\circ}$ 115% < CR \leq 120% -> $^{\circ}$ CR1 $^{\circ}$ of the sum of all $^{\circ}$ FXZA15A $^{\circ}$ and/or $^{\circ}$ FXAA15A $^{\circ}$ indoor units in the system must be $\leq ^{\circ}$ 25 $^{\circ}$ %.
 - ° 120% < CR ≤ 125% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ \cdot 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

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

Integrated heating capacity coefficient

Inlet air tempe	erature c	of heat e	exchang	er			
[°CDB/°CWB]	-7/-76	-5/-56	-3/-37	0/-07	3/2 2	5/4 1	7/6

	[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
	Integrated cor	rection f	^f actor fo	r frost	accumul	ation ·(C)·	
ion	8HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
For single unit installation	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
unit	14HP	0,90	0,87	0,81	0,68	0,69	0,80	1,00
gle (16HP	0,90	0,87	0,81	0,68	0,68	0,79	1,00
sin	18HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
For	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
on	13HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
Ilati	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
nit i	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
Fot	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

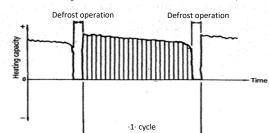
The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.

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

REYA-A REMA5A

A VRV5 Heat recovery

Correction factor

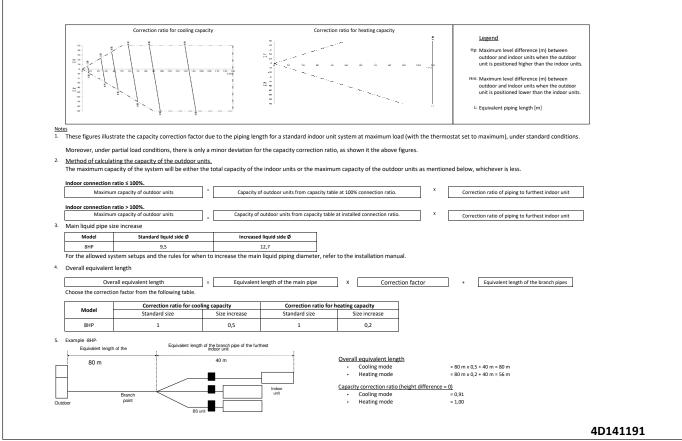
	Model	Page
	8HP	3
it	10HP	4
Single unit	12HP	5
e	14HP	6
ng	16HP	7
Si	18HP	8
	20HP	9
	10HP	4
	13HP	6
t	16HP	7
iur	18HP	8
ti u	20HP	9
Multi unit	22HP	10
Σ	24HP	11
	26HP	12
	28HP	13

Notes

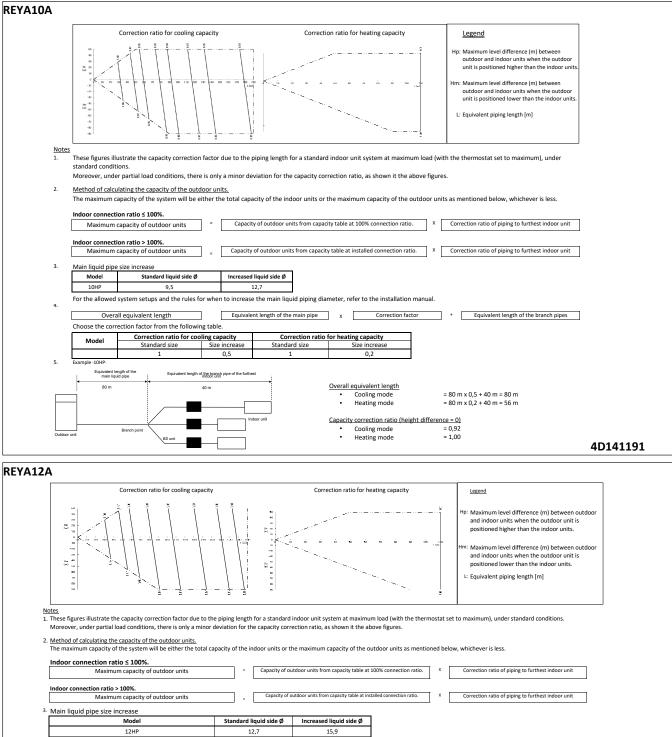
The multi-combination data corresponds with the standard multi-combinations described on ·4D138289·.

4D141191



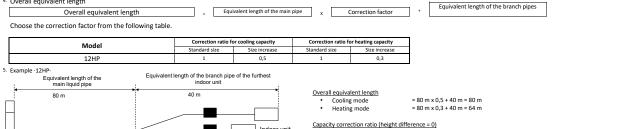


5 - 3 Capacity Correction Factor



For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual 4. Overall equivalent length

DS unit



Cooling mode
 Heating mode

= 0,92

= 1,00

Indoor unit

25

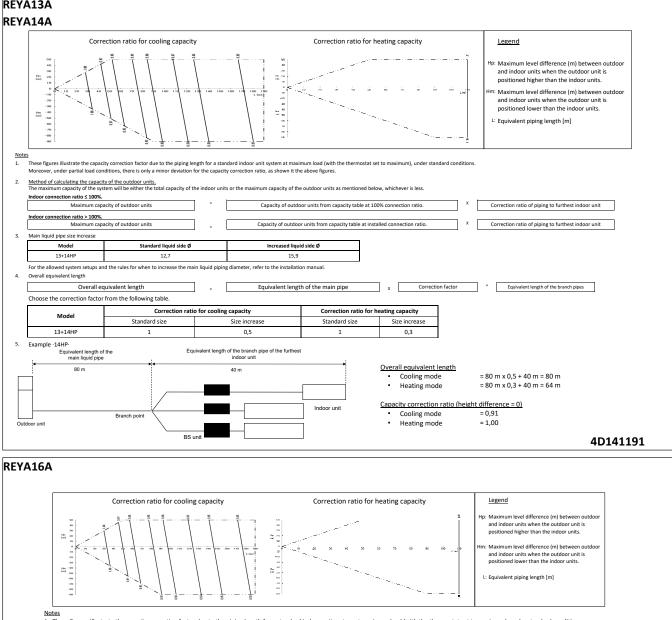
Outdoor unit

Branch point

4D141191

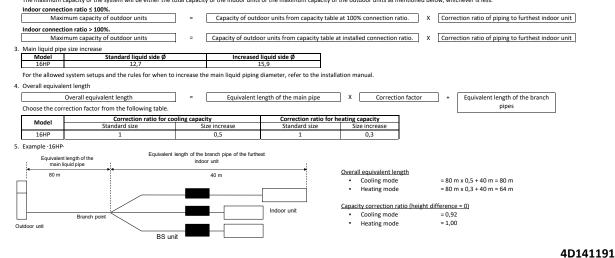
5 - 3 Capacity Correction Factor





1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown it the above figures.

2. Method of calculating the capacity of the outdoor units. The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

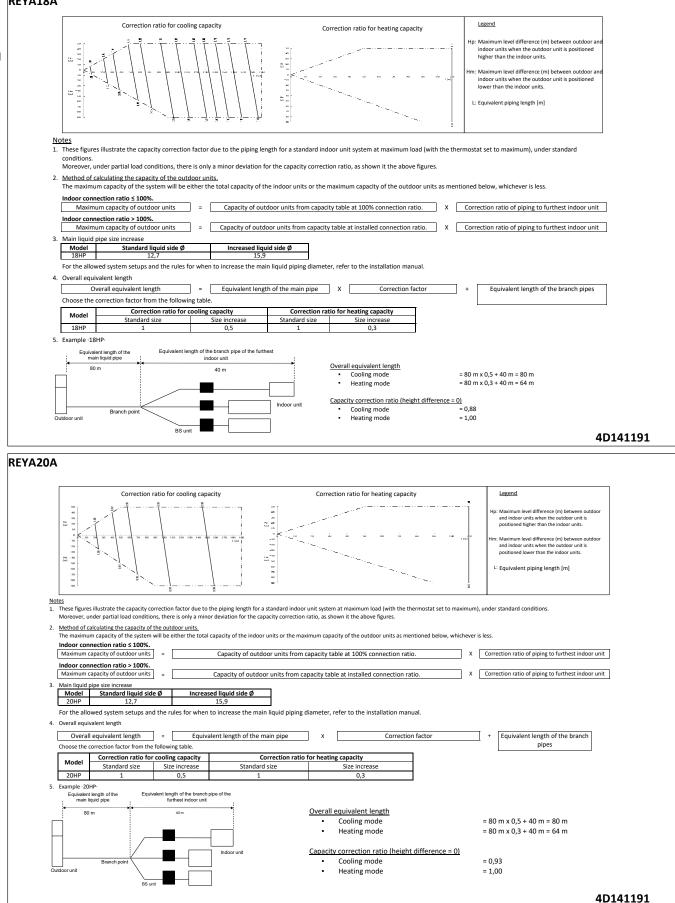


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5 - 3 Capacity Correction Factor

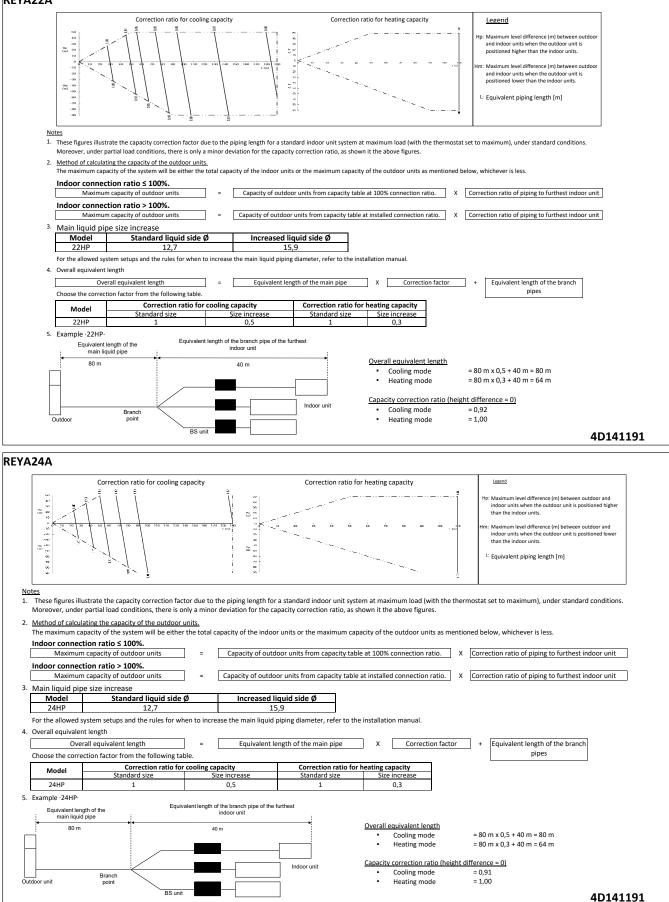
REYA18A

5



5 - 3 Capacity Correction Factor

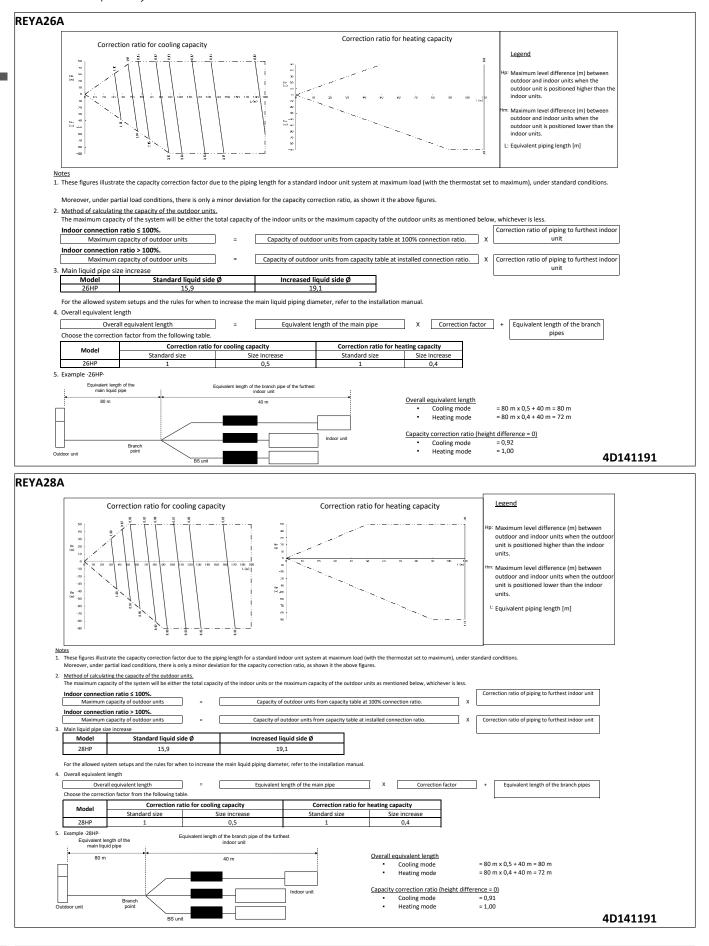
REYA22A





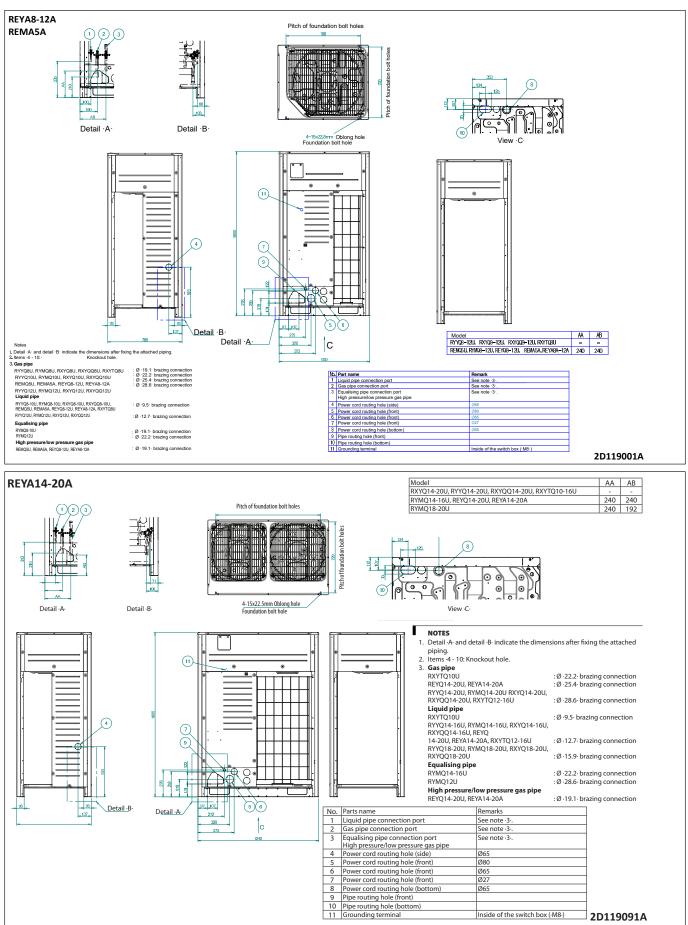
5

5 - 3 Capacity Correction Factor



6 Dimensional drawings

6 - 1 Dimensional Drawings



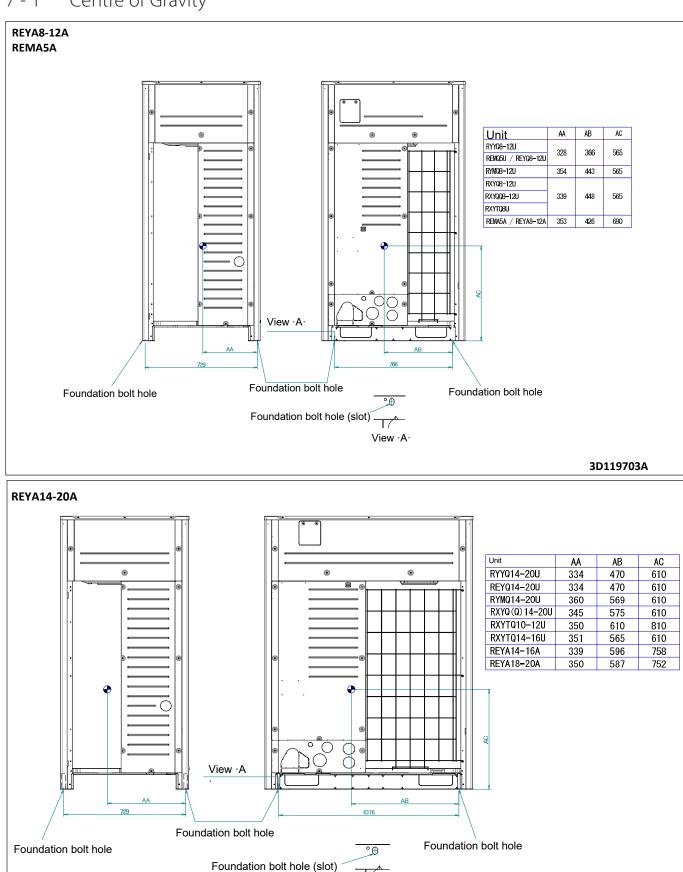


Centre of gravity 7

Centre of Gravity 7 - 1



7



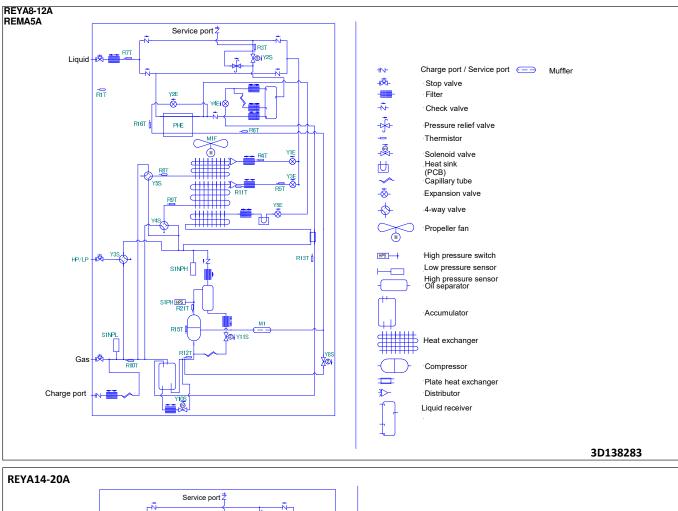
View ·A

Piping diagrams 8

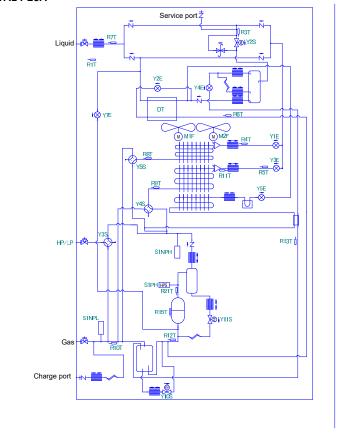
8 - 1 **Piping Diagrams**









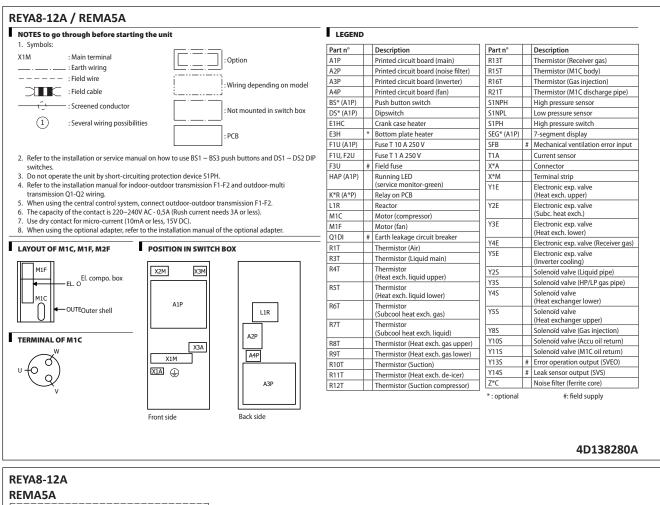


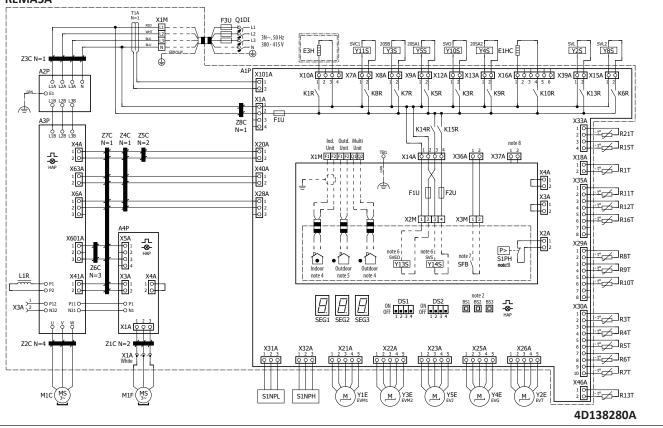
+N−	Charge port / Service port
	Stop valve
	Filter
4	Check valve
- 1	Pressure relief valve
	Thermistor
×₽₫	Solenoid valve
<u>ы</u>	Heat sink (PCB)
\checkmark	Capillary tube
- ≪	Expansion valve
\$	4-way valve
	Propeller fan
HPS	High pressure switch
\vdash	Low pressure senso High pressure sensor
	Oil separator
(⁺⁺)	Accumulator
	Heat exchanger
-	Compressor
	Double tube heat exchanger
≯≻	Distributor
	Liquid rece iver

3D138284

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase



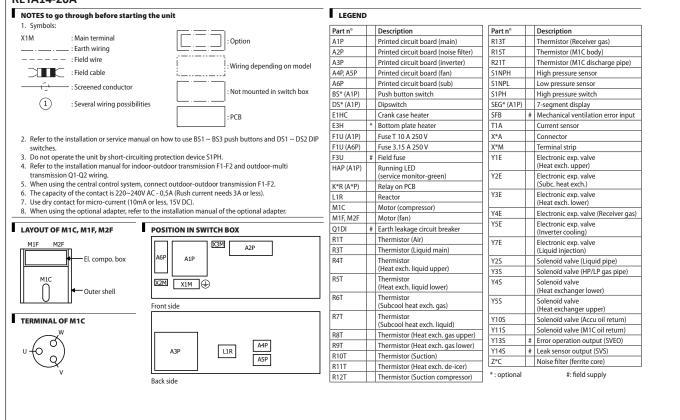


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9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

REYA14-20A



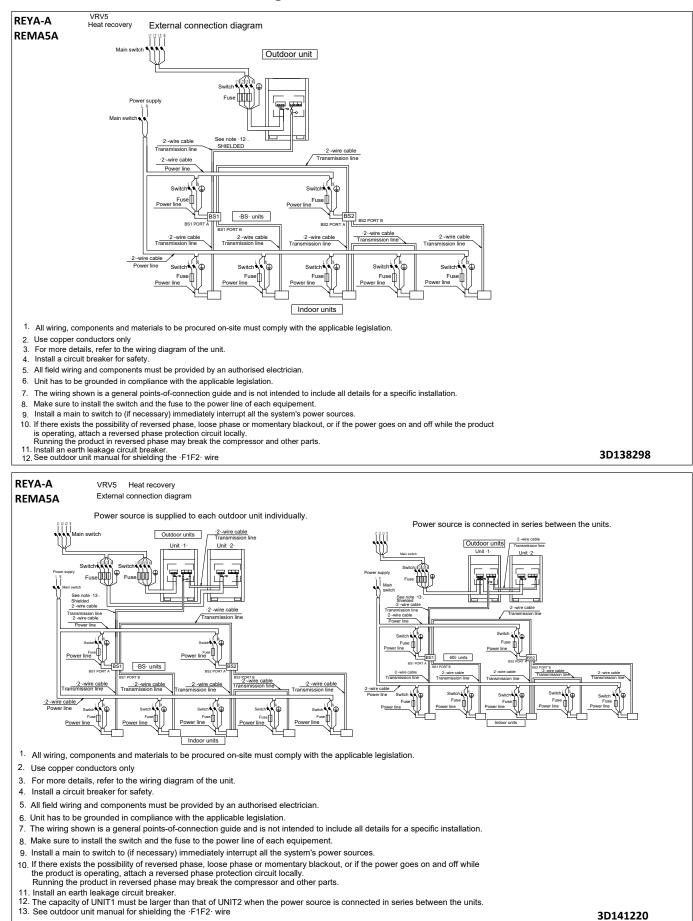
4D138281A

REYA14-20A Z2C N=1 F3U Q1DI - L2 3N~, 50 Hz 380 - 415 V SVL Y2S ЕЗН Y11S Y3S Y105 Y4S Y5S E1HC å 6 A1F 호 X16A (호 호 -O E1 (= K101A X10A 応 회 x7A [호 री X8A रि אפא נק 회X12A 🗘 ी X13A दि <u>🖞 🖞 🖞 🕺 🖞 🖞 🕺 🖞 🖞 🕹 🖓</u> 02 K1R K8R K7R K5R K3R K9R K10R K13R -0 62 📥 71C N=4 L1B L2B L3B F1U Y7E EVL A3P м, X33/ L3B K14R K15R . ^еС ____ R21Т X3A X9A 00000 X1A 00 01 1 2 3 4 5 **1** 2 02 **1** 2 Z70 Ind. Outd. Multi Unit Unit Unit X2A 10 20 -г-1 O 2 O X36A 🗘 🖓 TB1 Q X37A 🗘 🏹 X14A 🕻 X1M F1 F2 F1 F2 Q1 Q2 F1U X18. X63/ 10 20 1 O 2 O -rg____R1T (40A <u>0</u>2 цß T ∕≞ ф ∏F2U E1U X6A 1 O 2 O 3 O 3 0 4 0 5 0 7 0 3 0 Г X3M 1 2 X2M 1 2 3 4 j, с -_∟ -⊗-⊸ X29A 1 0 2 0 4 0 5 0 7 0 8 0 1 O 2 O 3 O P>-S1PH note 6 R8T • ٦ • note 7 Y145 G. Y13S SFB \ ≝_C∠__{R9T} X41/ 1 O 2 O L1R N=1 X4/ 1 0 2 0 P 0 EG2 Ħ. \square ON DS1 ON DS2 X3A 2 P12 O O P11 O P1 P11 O N11 O -O P1 -O N1 BS1 BS2 BS3 ч Ч - t°_____R3T W X1A X1A רב געד געד -t° ______RST Z5C N=: 6 0 7 0 8 0 9 0 0 X31A X32A X21/ X23/ X25/ X264 X22A X1A Red X2A White -≝_C R6T 10 c Q 99 Ō Z9C N=1 Z10C N=1 M1C MS M1F MS M2F MS _M_)Y1E _M_)Y5E Y4E S1NPL S1NPH _м.) Y3E м, м, Y2E 4D138281A

10

10 External connection diagrams

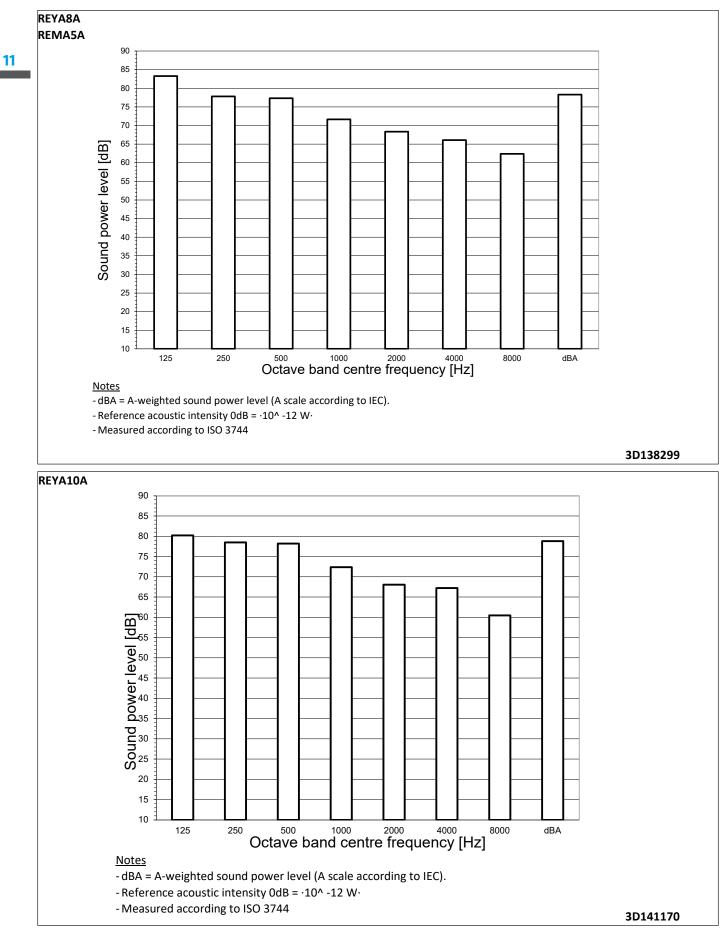
10 - 1 External Connection Diagrams



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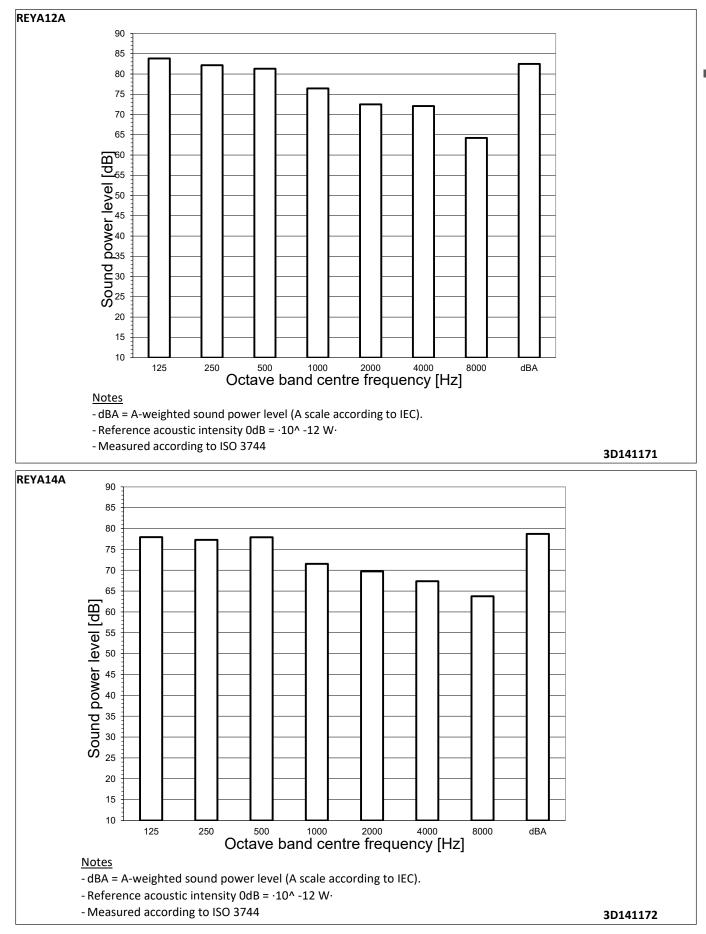
Sound data 11

Sound Power Spectrum - Cooling 11 - 1



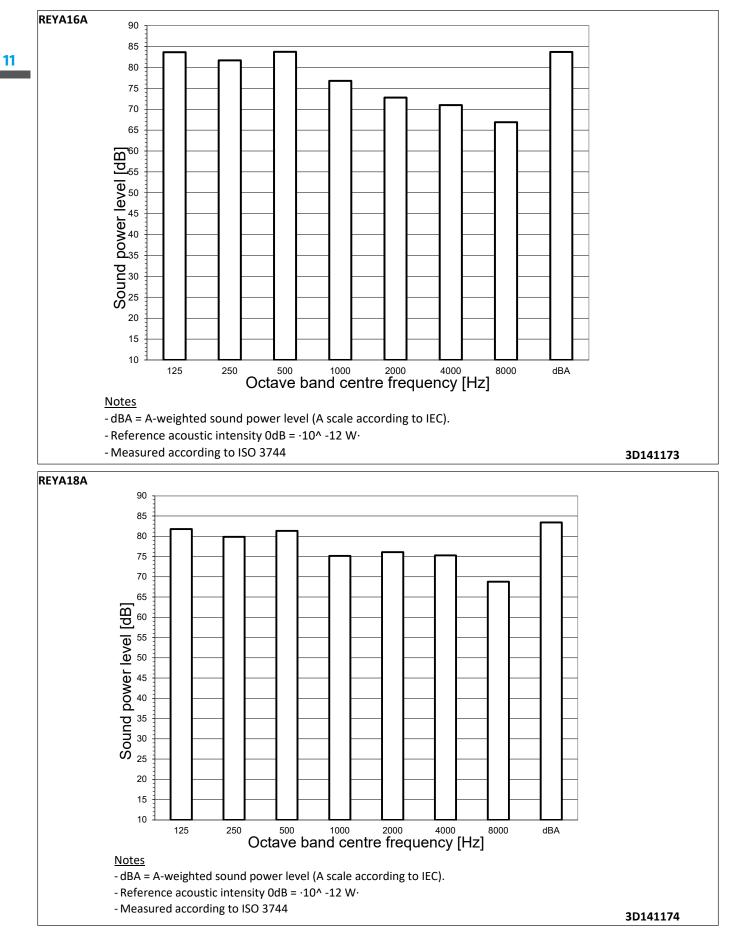
11 Sound data

11 - 1 Sound Power Spectrum - Cooling

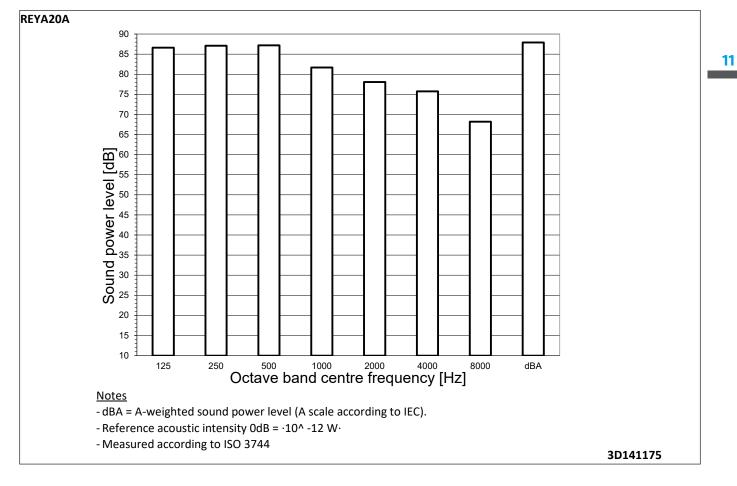




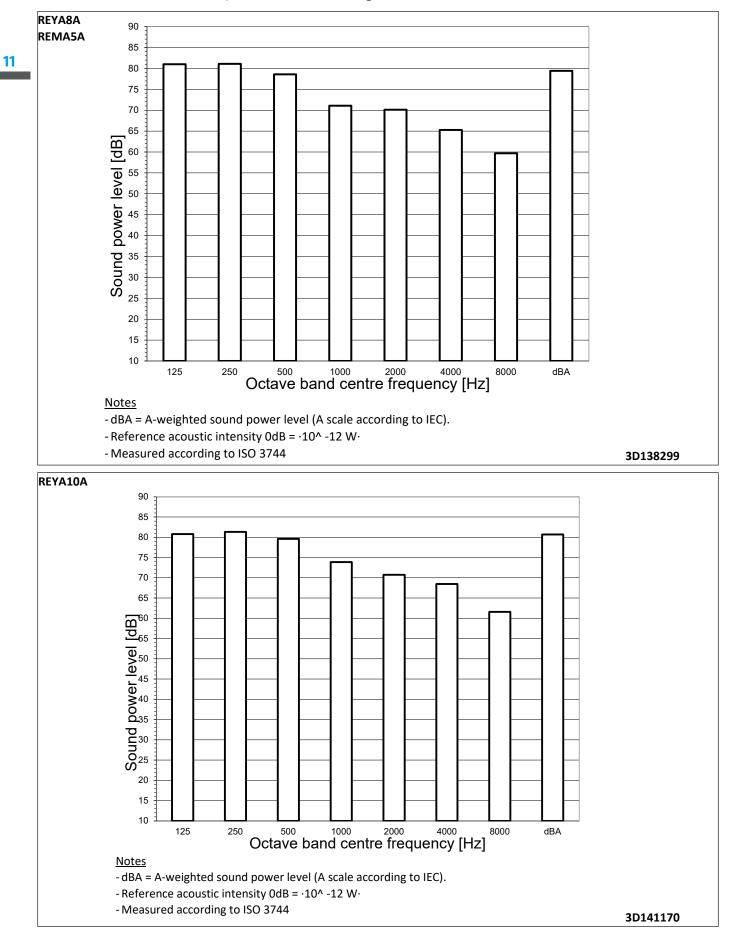
11 - 1 Sound Power Spectrum - Cooling



11 - 1 Sound Power Spectrum - Cooling

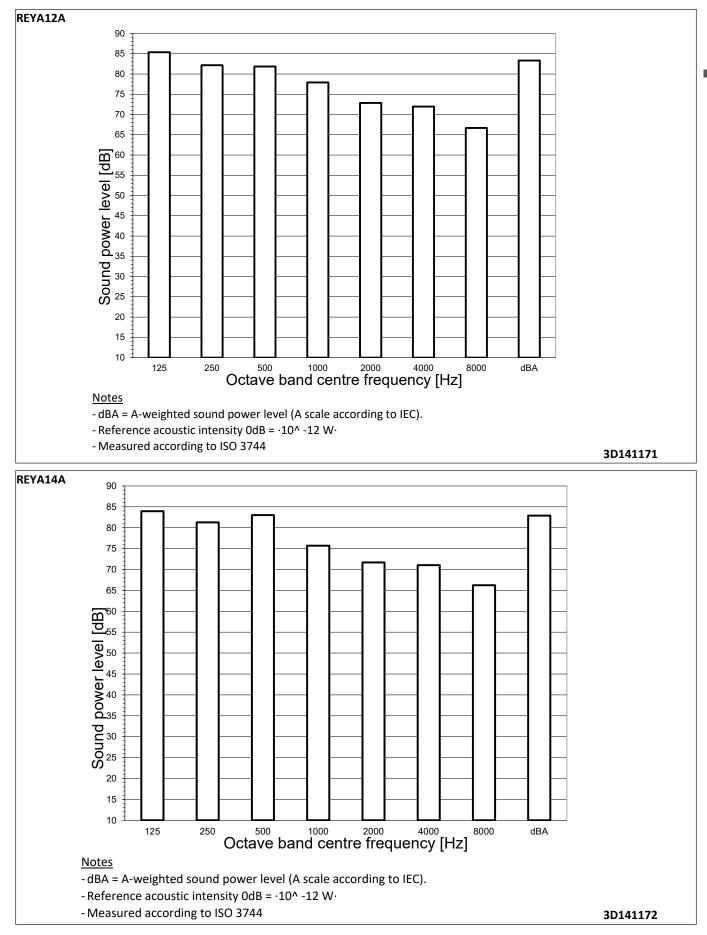


11 - 2 Sound Power Spectrum - Heating



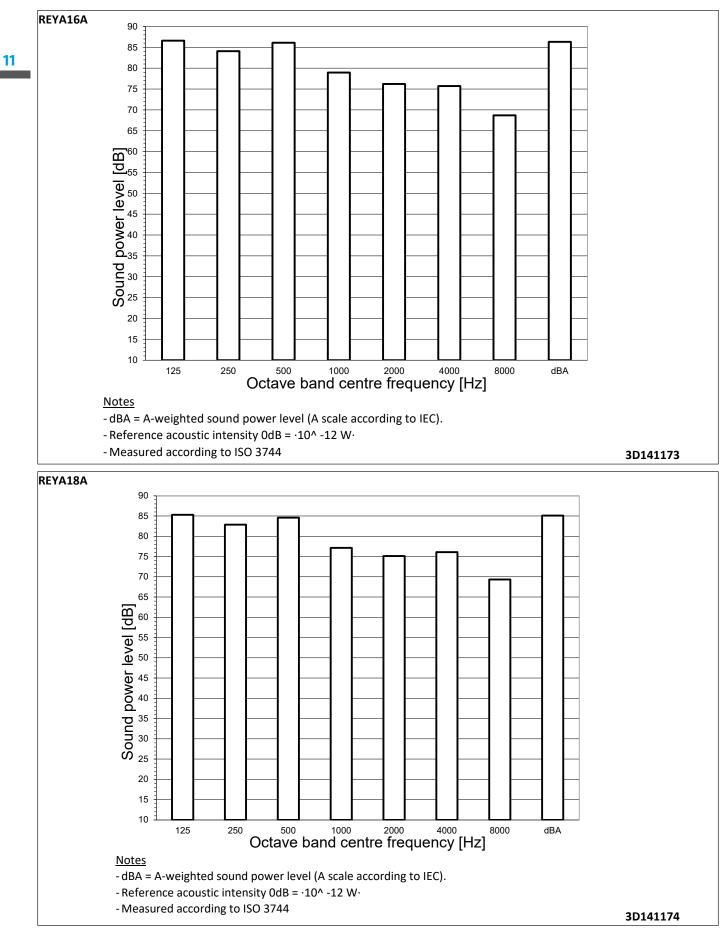
11 Sound data

11 - 2 Sound Power Spectrum - Heating

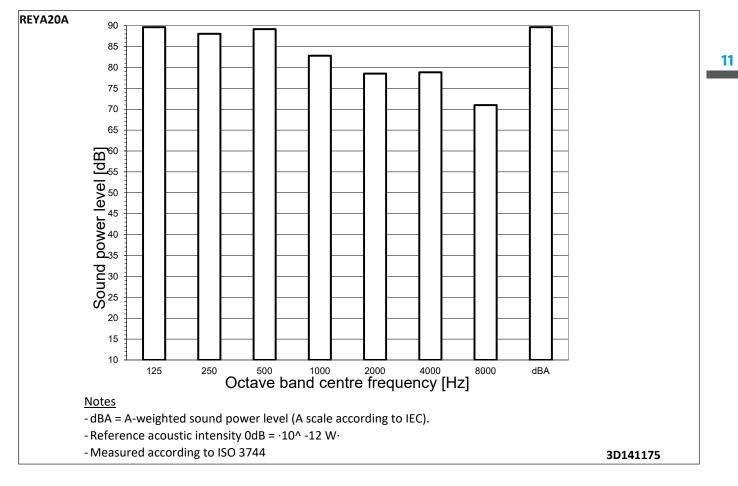




11 - 2 Sound Power Spectrum - Heating



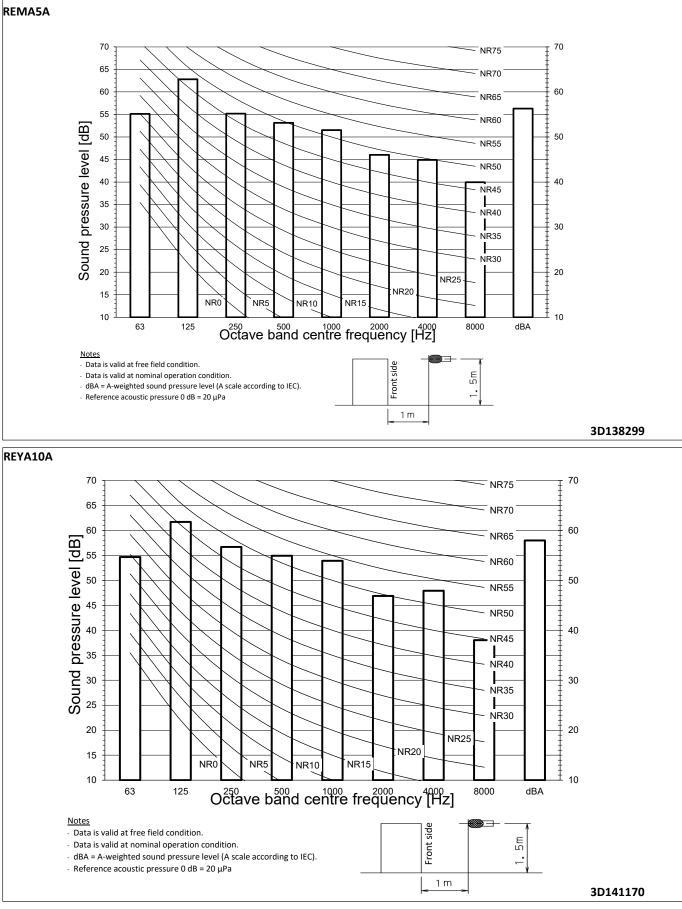
11 - 2 Sound Power Spectrum - Heating



11 - 3 Sound Pressure Spectrum - Cooling

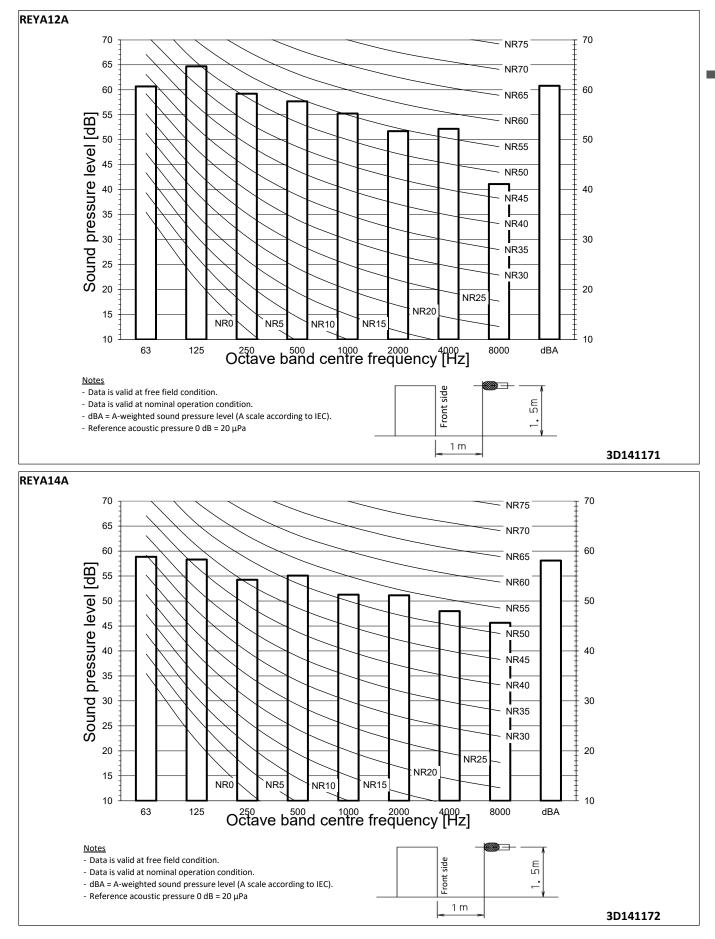






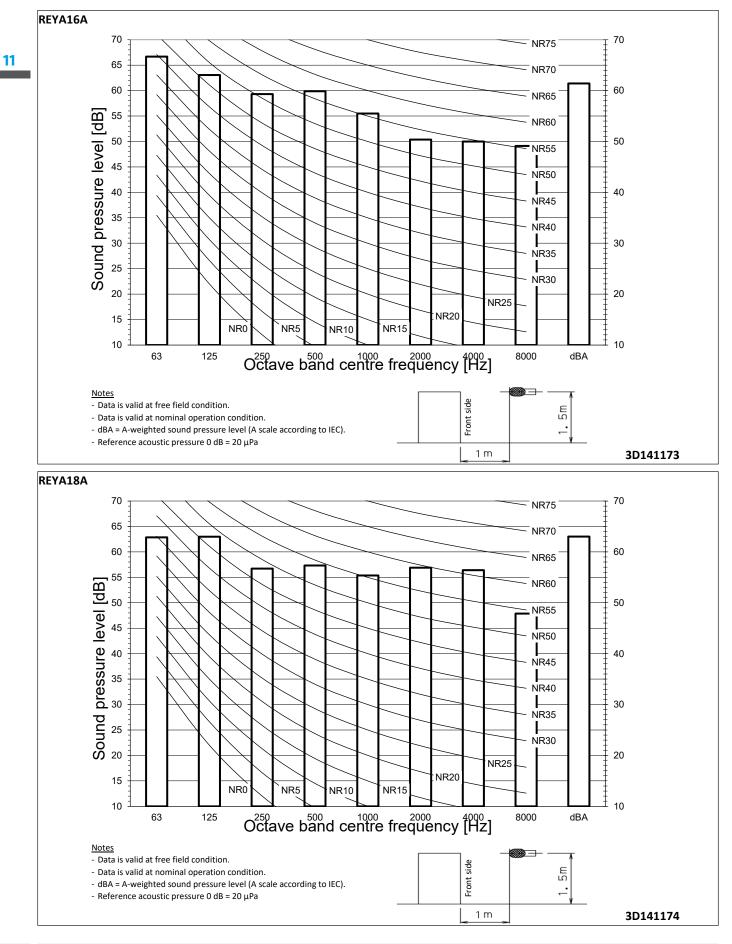
11 Sound data

11 - 3 Sound Pressure Spectrum - Cooling

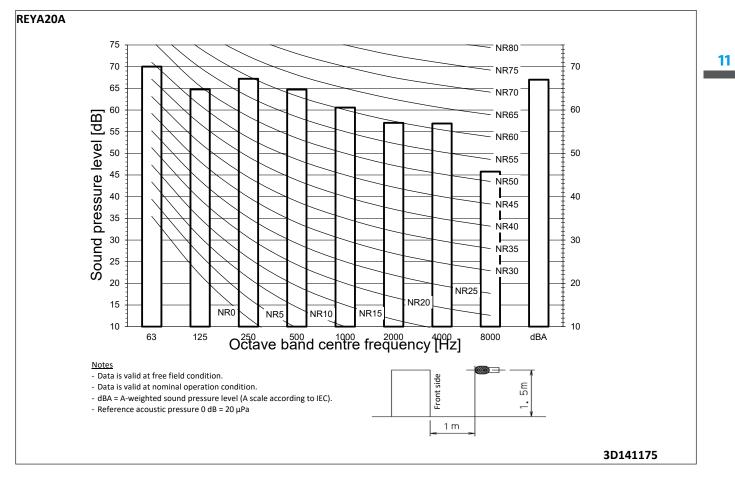


DAIKIN

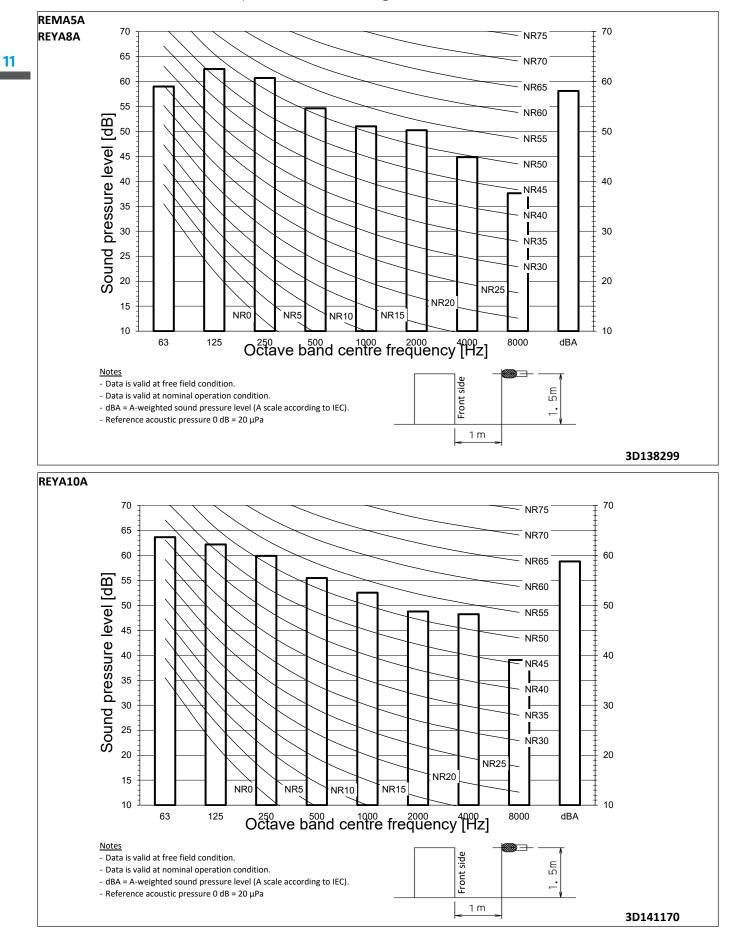
11 - 3 Sound Pressure Spectrum - Cooling



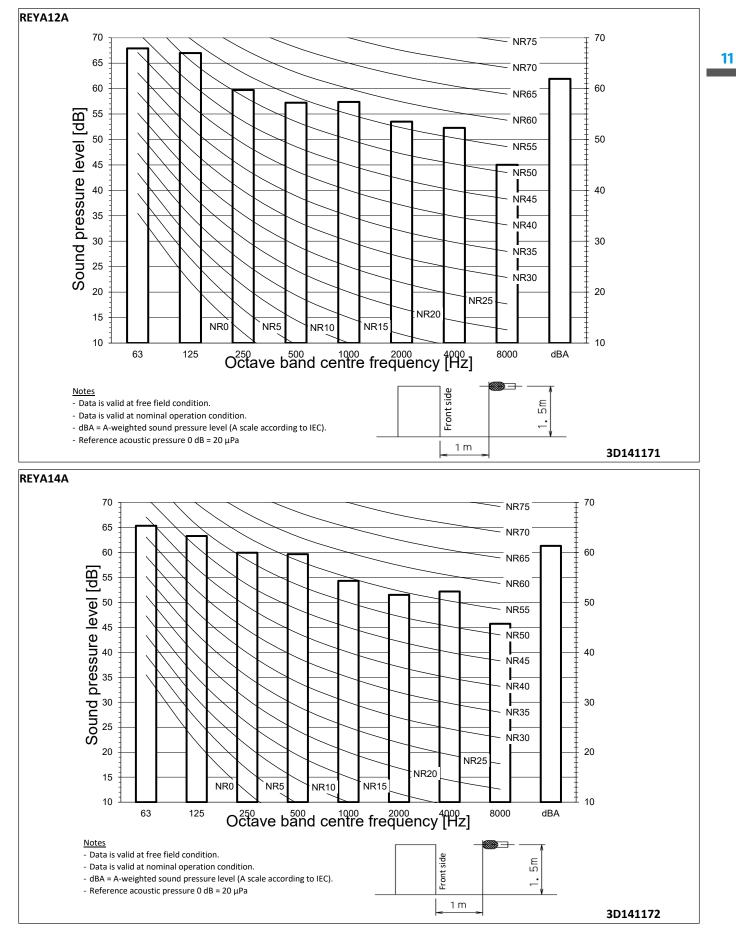
11 - 3 Sound Pressure Spectrum - Cooling



11 - 4 Sound Pressure Spectrum - Heating

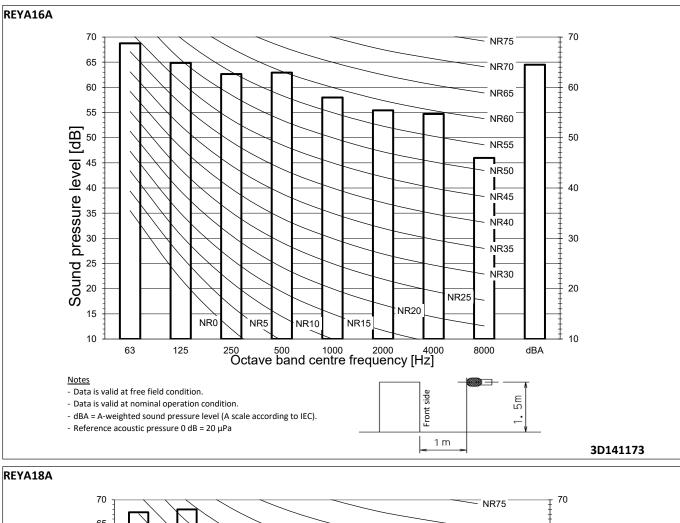


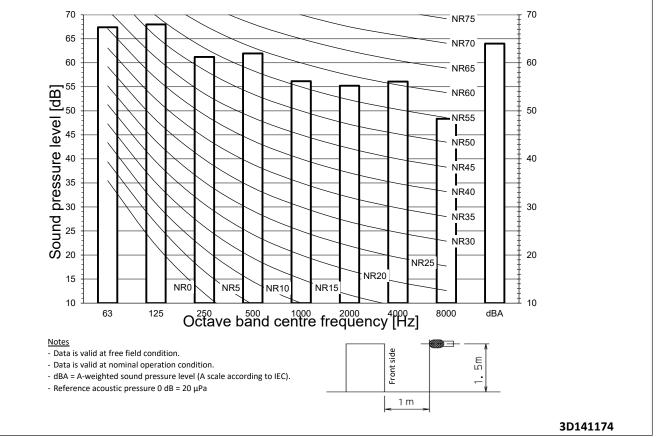




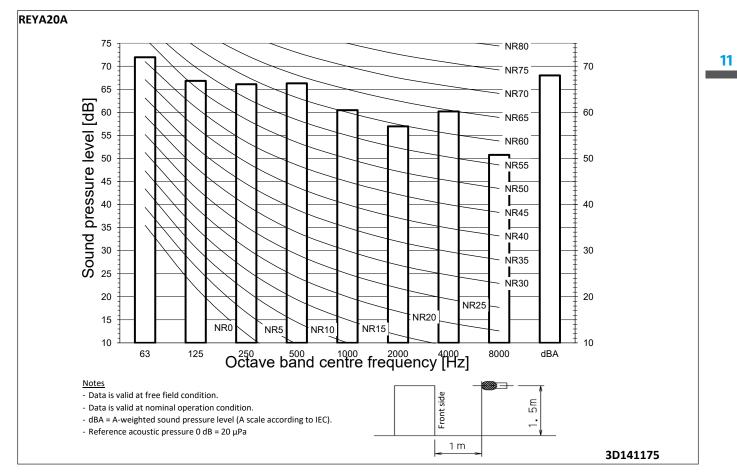
11 Sound data

11 - 4 Sound Pressure Spectrum - Heating





11 - 4 Sound Pressure Spectrum - Heating



11 - 5 Sound power level at high ESP

REYA-A REMA5A

VRV-5 Heat recovery

High ESP

	Cooling	Heating
	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.

11 Sound data

11 - 6 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	

	Cooling		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	

16HP	Cooling		Heating		
	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	



11 - 6 Sound level data Quiet mode

REYA-A REMA5A

11

18HP	Co	oling	Heating		
	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	

	Coo	oling	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

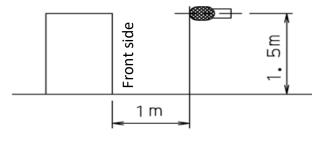
sound pressure

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).

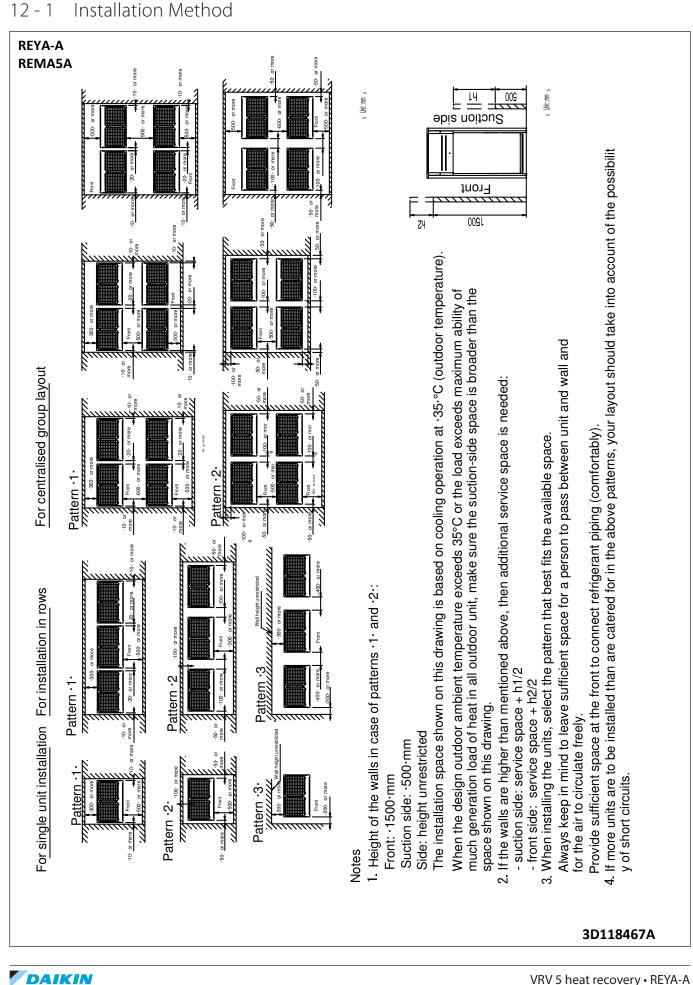
Reference acoustic pressure 0 dB = 20 μ Pa



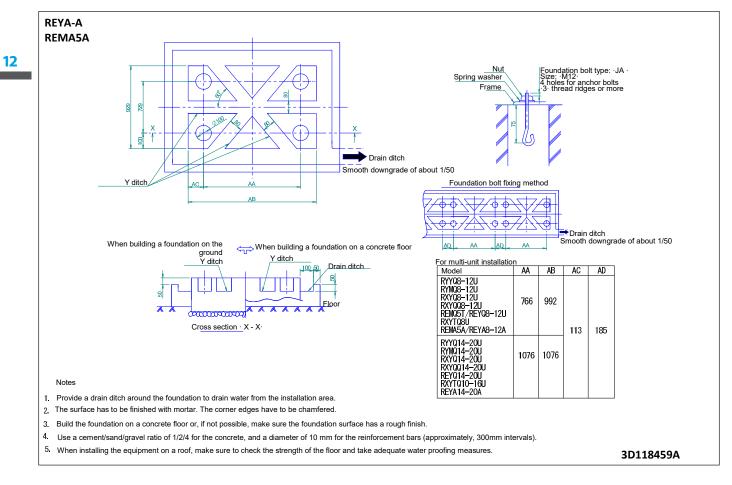
Installation

VRV 5 heat recovery • REYA-A

12

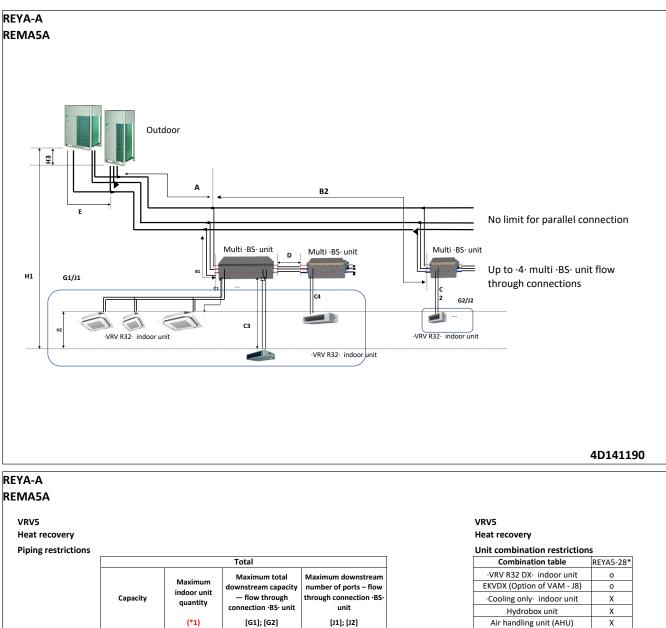


12 - 2 Fixation and Foundation of Units



12 Installation

12 - 3 Refrigerant Pipe Selection



·VRV R32∙ indoor unit

Notes

1. Excluding ·BS· units

50~130%

64

2. Other combinations than mentioned in this combination table are prohibited. All units are to be connected to $\cdot BS \cdot$ units

750

Amount of units connectable to a ·BS· unit

	BS4A (*3)	BS6A (*3)	BS8A (*3)	BS10A (*3)	BS12A (*3)	(*3)	branchas are (*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 ·2· branches, the maximum piping length between the ·BS· unit and the indoor unit is ≤ 20m. If the length of this piping is > 20m, increase the size of the liquid pipe.

16

o: Allowed X: Not allowed



12 - 3 **Refrigerant Pipe Selection**

REYA-A **REMA5A**

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VRV5 Heat recovery

Piping restrictions

		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)	10/10/11	50/40 m (*2)	30 m	5	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)

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 shutoff 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 $\cdot 15.96 \cdot [kg] \times$ the number of indoor units connected downstream of $\cdot BS \cdot$ units, with a maximum of $\cdot 63.8 \cdot kg$.

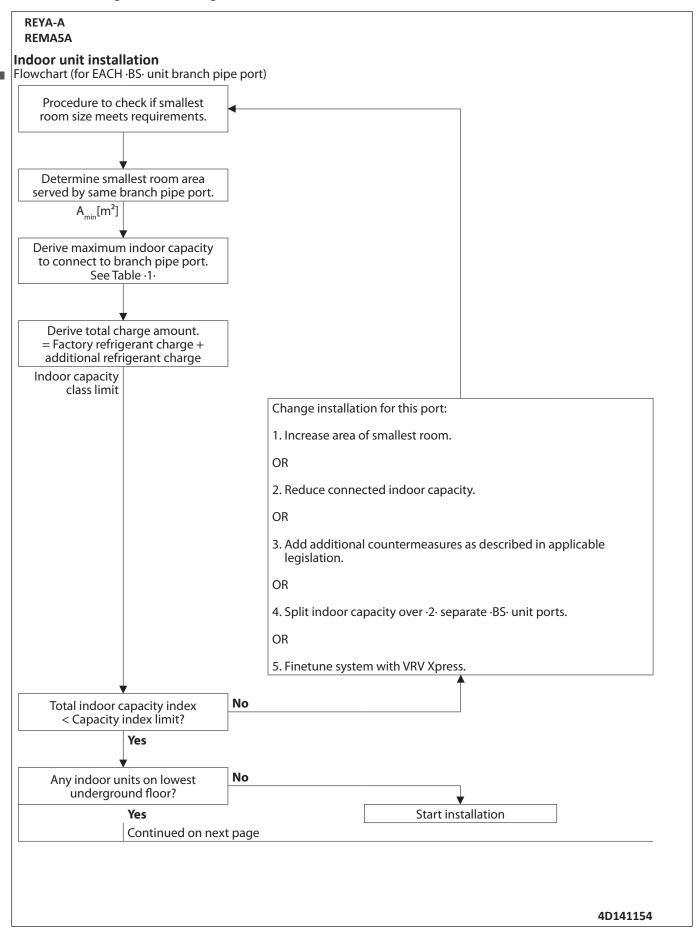
When the R32 sensor in the indoor unit detects a refrigerant leak, the corresponding shut-off valves in the ·BS· unit close and the alarm in the remote controller connected to the indoor unit is triggered.

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

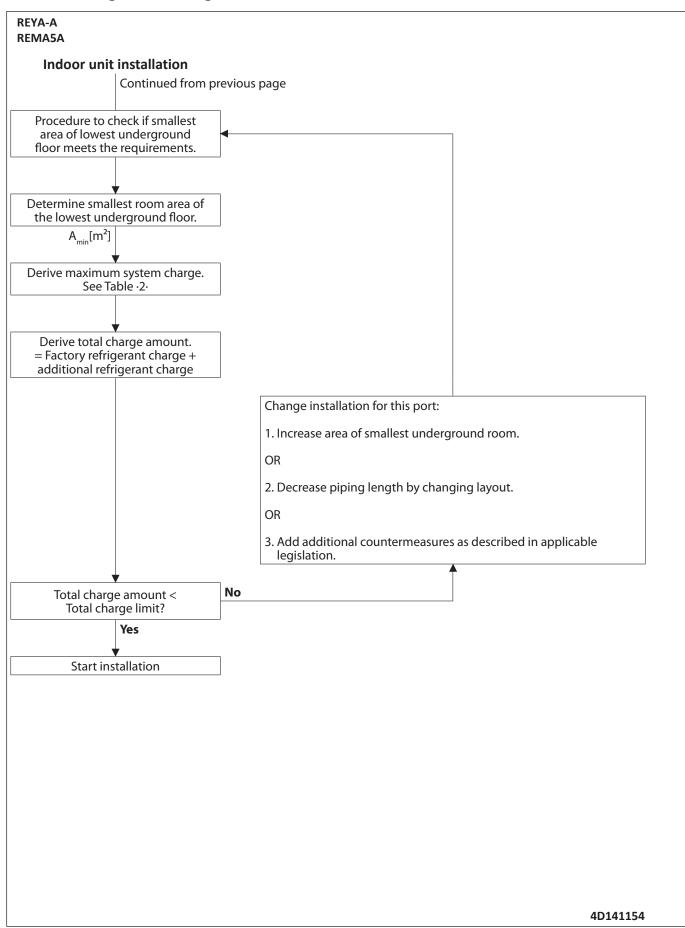
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REYA-A REMA5A

12 Indoor unit installation

Table ·1·

Room area [m²]	Maximum total indoor unit capacity class				
	1 indoor unit per branch pipe	2-5 units per branch pipe port			
	port (·a·)	·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	25 140		25		
30	200	63	50		
35	200	71	71		
70	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) $\cdot 2 \cdot$ to $\cdot 5 \cdot$ indoor units connected to a single branch pipe port, $\cdot 90 \cdot$ m after first refrigerant branch.

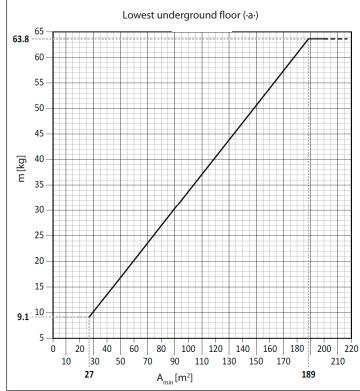
Note: The values in Table ·1· are under the assumption of worst case indoor unit volume and ·40· m piping between indoor and ·BS· unit.

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.

Table .2.

REYA-A REMA5A

Indoor unit installation



A _{min} [m ²]	m [kg]
27	9.1
30	10.1
40	——— 13.5
50	16.8
60	20.2
70	23.6
80	27.0
90	30.3
100	33.7
110	37.1
120	40.5
130	43.9
140	47.2
150	50.6
160	54.0
170	57.4
180	60.7
189	63.8
190	63.8
200	63.8

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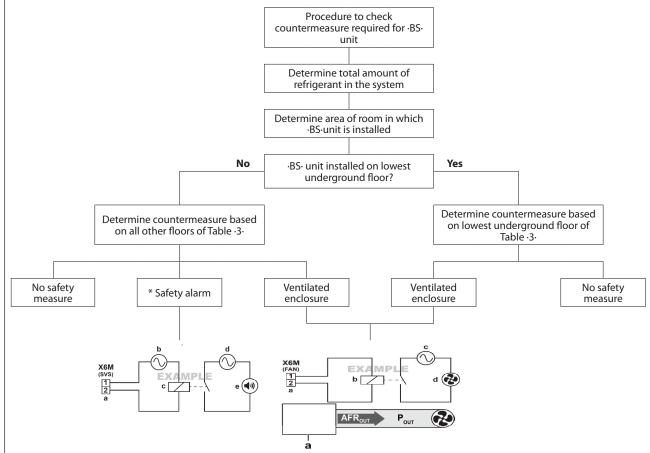
·BS· unit installation

Depending on the room size in which the ·BS· 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 ·BS· unit.

Note: If the installation height is more than .2.2. 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 -2.2-m, refer to VRV Xpress (https://vrvxpress.daikin.eu/).



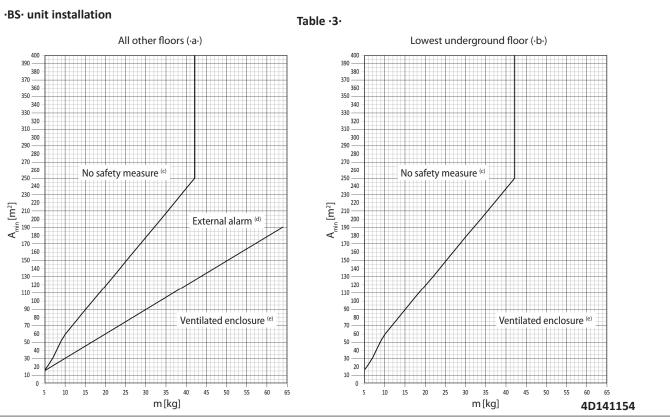
* Do NOT use the external safety alarm if the ·BS· unit is installed in an occupied space where people are restricted in their movement.

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12 ·BS



REYA-A REMA5A

m [kg]	Amin [m ²]			m [kg]				
_	All other floors (·a·)		Lowest underground floor (·b·)		All other floors (·a·)		Lowest underground floor (·b·)	
	No safety measure	External alarm (·d·)	No safety measure		No safety measure	External alarm (·d·)	No safety measure	
	(·c·)		(·c·)		(·c·)		(·c·)	
5	16	15	16	36	213	107	213	
6	23	18	23	37	219	110	219	
7	31	21	31	38	225	113	225	
8	41	24	41	39	231	115	231	
9	51	27	51	40	237	118	237	
10	59	30	59	41	243	121	243	
11	65	33	65	42	249	124	249	
12	71	36	71	43	-	127	-	
13	77	38	77	44	-	130	-	
14	83	41	83	45	-	133	-	
15	89	44	89	46	-	136	-	
16	95	47	95	47	-	139	-	
17	101	50	101	48	-	142	-	
18	107	53	107	49	-	145	-	
19	113	56	113	50	-	148	-	
20	118	59	118	51	-	151	-	
21	124	62	124	52	-	154	-	
22	130	65	130	53	-	157	-	
23	136	68	136	54	-	160	-	
24	142	71	142	55	-	163	-	
25	148	74	148	56	-	166	-	
26	154	77	154	57	-	169	-	
27	160	80	160	58	-	172	-	
28	166	83	166	59	-	175	-	
29	172	86	172	60	-	178	-	
30	178	89	178	61	-	181	-	
31	184	92	184	62	-	184	-	
32	190	95	190	63	-	187	-	
33	195	98	195	64	-	190	-	
34	201	101	201					
35	207	104	207				4D141154	

12 - 4 Refrigerant Charge Information

REYA-A REMA5A

·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 ·BS· unit.

When the R32 sensor in the \cdot BS \cdot 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 ·BS· 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.

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.

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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.

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

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12

·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 ·BS· unit. This creates an airflow path from the leaking ·BS· unit to the extraction fan.



a Damper

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

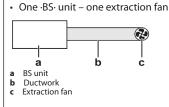
• Pressure inside the ·BS· unit has to be more than ·20· Pa below the ambient pressure.

 Minimum airflow r 	rat
---------------------------------------	-----

Model	Minimum airflow rate [m³/h]				
BS4A	90				
BS6-8A	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



Calculation method for selection of external fan

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

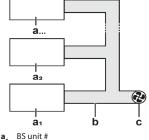
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·BS· unit installation

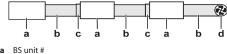
Multiple ·BS· units in parallel – one extraction fan

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



a_# BS unit #
 b Ductwork
 c Extraction fan

Multiple ·BS· units in series – one extraction fan



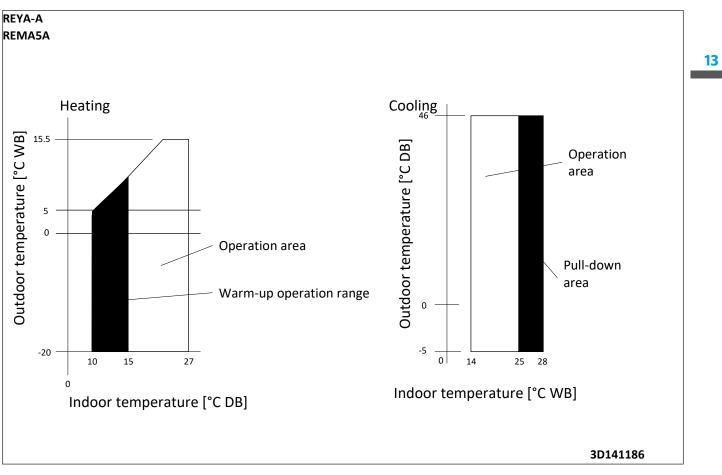
- b Ductworkc EKBSDCK
- c EKBSDCK d Extraction fan

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

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13 Operation range

13 - 1 Operation Range



14 Appropriate Indoors

14 - 1 Appropriate Indoors

REYA-A REMA5A

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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	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

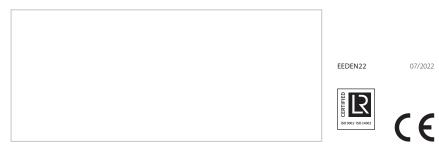
Covered by ·ENER LOT21·

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 •ENER LOT21•

EKVDX32-50-80-100

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