

VRV 5 S-series Air Conditioning Technical Data RXYSA-AV1



RXYSA4A7V1B RXYSA5A7V1B RXYSA6A7V1B



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RXYSA-AV1

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15 Appropriate Indoors

36





Features

1 - 1 RXYSA-AV1

Lower CO2 equivalent and market-leading flexibility

- > Reduced CO2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- real-life seasonal efficiency
- > Compact (870mm high) and lightweight single fan design makes the unit unobtrusive, saves space and is easy to install
- > Easy to transport thanks to lightweight and compact design
- > Market-leading serviceability and handling, thanks to wide access area, 7-segment display and additional handle
- > Top sustainability over the entire lifecycle, thanks to market leading > 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





Inverter





Specifications2 - 1 Specifications

	cificatio	ns		RXYSA4AV1	RXYSA5AV1	RXYSA6AV1
Recommended cor	mbination			3 x FXSA25A2VEB + 1 x FXSA32A2VEB	4 x FXSA32A2VEB	2 x FXSA32A2VEB + 2 x FXSA40A2VEB
Cooling capacity	Prated,c		kW	12.1 (1)	14.0 (1)	15.5 (1)
leating capacity	Nom.	6°CWB	kW	12.1 (2)	14.0 (2)	15.5 (2)
leating capacity	Prated,h	O CWD	kW			<u> </u>
		COCIMID		12.1 (2)	14.0 (2)	15.5 (2)
	Max.	6°CWB	kW	14.2 (2)	16.0 (2)	18.0 (2)
ower input - 50Hz		Nom. 6°CWB	kW	2.69 (2)	3.33 (2)	3.78 (2)
OP at nom. apacity	6°CWB		kW/kW	4.49	4.20	4.10
COP				5.1		4.7
EER				8.2	7.7	7.6
ıs,c			%	324.5	306.1	301.0
			%	200.5	185.7	183.6
ıs,h	1. C. II	FED I	90			
pace cooling	A Condi-			3.4	3.1	3.0
	tion (35°C - 27/19)		kW	12.1	14.0	15.5
	B Condi-	EERd		5.8	5.3	5.0
	tion (30°C	Pdc	kW	8.9	10.3	11.4
	- 27/19)					
	C Condi-	FERd		10.9		9.8
	tion (25°C		I-\A/	5.7		
	- 27/19)		kW		6.6	7.3
	D Condi-			18.5	19.4	19.0
	tion (20°C	Pdc	kW	4.9	4.5	4.9
	- 27/19)					
pace heating		COPd (declared COP)		2.8	2.6	2.5
Average climate)	. D. vaiciit	Pdh (declared heating cap)	kW	8.4	9.7	10.7
(verage climate)				0.4		10.7
		Tbiv (bivalent temperature)	°C		-10	
	TOL	COPd (declared COP)		2.8	2.6	2.5
		Pdh (declared heating cap)	kW	8.4	9.7	10.7
		Tol (temperature operating limit)	°C		-10	
	A Con-	COPd (declared COP)		3.4		 2.9
	dition		kW	7.4	8.5	9.5
	(-7°C)	Pdh (declared heating cap)	KVV			
	B Condi-	COPd (declared COP)		4.9	4.5	4.3
	tion (2°C)	Pdh (declared heating cap)	kW	4.5	5.2	5.8
	C Condi-	COPd (declared COP)		7.0	6.7	7.0
		Pdh (declared heating cap)	kW	3.3		3.7
	D Con-	COPd (declared COP)		8.9		9.0
	dition	Pdh (declared heating cap)	kW	0.2	3.9	
	(12°C)					
Capacity range			HP	4	5	6
ED	Category				Category III	
	Most	Name			Accumulator	
	critical					
	critical					
PED	part	Dr*V	Par*I		257	
PED	part Most critical	Ps*V	Bar*I		257	
	part Most critical part		Bar*I	42 (2)		10.75
Naximum number	part Most critical part of connect		Bar*l	13 (3)	16 (3)	18 (3)
Maximum number ndoor index	part Most critical part of connect Min.		Bar*I	50.0	16 (3) 62.5	70.0
laximum number	part Most critical part of connect		Bar*I		16 (3)	
Maximum number ndoor index	part Most critical part of connect Min.		Bar*I	50.0	16 (3) 62.5	70.0
Maximum number ndoor index onnection	Most critical part of connect Min. Nom. Max.	able indoor units		50.0 100	16 (3) 62.5 125 162.5	70.0 140
laximum number ndoor index onnection	part Most critical part of connect Min. Nom.	able indoor units Height	mm	50.0 100	16 (3) 62.5 125 162.5 869	70.0 140
laximum number ndoor index onnection	Most critical part of connect Min. Nom. Max.	able indoor units Height Width	mm mm	50.0 100	16 (3) 62.5 125 162.5 869 1,100	70.0 140
laximum number idoor index onnection	part Most critical part of connect Min. Nom. Max. Unit	able indoor units Height Width Depth	mm mm mm	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460	70.0 140
laximum number idoor index onnection	Most critical part of connect Min. Nom. Max. Unit Packed	able indoor units Height Width Depth Height	mm mm mm	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050	70.0 140
aximum number door index onnection	part Most critical part of connect Min. Nom. Max. Unit	able indoor units Height Width Depth	mm mm mm	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050	70.0 140
aximum number door index onnection	Most critical part of connect Min. Nom. Max. Unit Packed	able indoor units Height Width Depth Height	mm mm mm	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050	70.0 140
aximum number door index onnection imensions	Most critical part of connect Min. Nom. Max. Unit Packed	able indoor units Height Width Depth Height Width	mm mm mm mm mm	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050	70.0 140
aximum number door index onnection imensions	part Most critical part of connect Min. Nom. Max. Unit Packed unit Unit	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569	70.0 140
laximum number idoor index connection imensions	part Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed urit	able indoor units Height Width Depth Height Width Depth	mm mm mm mm mm	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102	70.0 140
laximum number idoor index connection imensions	part Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed ur Material	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102 115 Carton	70.0 140
laximum number idoor index onnection imensions	Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed ur Material Weight	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102 115 Carton 4	70.0 140
laximum number idoor index onnection imensions	part Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed ur Material	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102 115 Carton	70.0 140
laximum number idoor index connection imensions	Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed ur Material Weight	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102 115 Carton 4	70.0 140
laximum number idoor index connection imensions	part Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed ur Material Weight Material Weight	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102 115 Carton 4 Wood 6	70.0 140
Maximum number ndoor index onnection vimensions Veight acking acking 2	part Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed ur Material Weight Material Weight Material	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg kg kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102 115 Carton 4 Wood 6 Plastic	70.0 140
Maximum number ndoor index	part Most critical part of connect Min. Nom. Max. Unit Packed unit Unit Packed ur Material Weight Material Weight	able indoor units Height Width Depth Height Width Depth	mm mm mm mm kg kg	50.0 100	16 (3) 62.5 125 162.5 869 1,100 460 1,050 1,205 569 102 115 Carton 4 Wood 6	70.0 140



Specifications Specification2 - 1 Specifications

Technical Spe		ns			RXYSA4AV1	RXYSA5AV1	RXYSA6AV1		
Heat exchanger	Туре					Cross fin coil			
	Indoor sid					Air			
	Outdoor		Datad	311		Air			
	Air flow rate	Cooling	Rated Rated	m³/h m³/h	5,519	5,342	204		
Fan		Heating	катеа	m ⁻ /n	5,519	1	,204		
ran	Quantity External	Max.		Pa		i 45			
	static	Nom.		Pa		0			
	pressure	NOIII.		га		Ü			
Fan motor	Quantity					1			
	Type					DC motor			
	Output			W		234			
Compressor	Quantity					1			
•	Туре				Н	lermetically sealed swing compres	ssor		
	Crankcas	e heater		W		33			
Operation range	Cooling	Min.		°CDB		-5			
		Max.		°CDB		46			
Operation range	Heating	Min.		°CWB		-20			
		Max.	<u> </u>	°CWB		16			
Sound power level		Nom.		dBA	67.0 (4)	68.1 (4)	69.0 (4)		
	Heating	Prated,h		dBA	69.0 (5)	70.0 (5)	71.0 (5)		
		Nom.		dBA	68.0 (4)	69.2 (4)	70.0 (4)		
Sound pressure	Cooling	Nom.		dBA	49.0 (6)		.0 (6)		
level	Heating			dBA	50.0 (6)		.0 (6)		
Refrigerant	Туре					R-32			
	GWP					675.0			
	Charge			kg		3.40			
Refrigerant oil	Туре				FW68DE				
n	Charged			I		1.9			
Piping connections	s Liquid	Type				Braze connection			
	<u></u>	OD		mm	<u> </u>	10			
	Gas	Type				Braze connection			
	Total	OD	Actual	mm		15.9			
	Total piping	System	Actual	m		300 (7)			
	length								
	Level dif-	OU-III	Outdoor unit in	m		50			
	ference	23 10	highest position	•••		30			
			Indoor unit in	m		40			
			highest position			-			
Defrost method						Reversed cycle			
Capacity control	Method					Inverter controlled			
	ater is equi	ipped with	n a supplementary h	neater		no			
Supplementary	Back-up	Heating	elbu	kW		0.000			
heater	capacity								
Power consump-	Crank-	Cooling		kW		0.000			
tion in other than	case	Heating	PCK	kW		0.031			
active mode	heater								
	mode								
	Off mode		POFF	kW		0.040			
		Heating	POFF	kW		0.015			
	Standby	Cooling	PSB	kW		0.040			
	mode	Heating		kW		0.015			
	Thermo-		PTO	kW		0.004			
	stat-off	Heating	PTO	kW		0.049			
Cooling	mode Cdc (Deg	radation c	ooling)		Ω 25				
Cooling					0.25				
Heating		radation h	ieating)			0.25 Inverter overload protector			
Safety devices	ltem	03				· · · · · · · · · · · · · · · · · · ·	tor		
		05				Compressor motor thermal protec Fan driver overload protector	toi		
		06				PC board fuse			
Safety devices	Item	07				High pressure switch (automatic	<u> </u>		
Jaiety devices	iteiii	08				High pressure switch (manual)	1		
		00			I	ringii pressure switch (mallual)			

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

Standard accessories: General safety precautions; Quantity: 1;

Standard accessories: Peel off F-gas label;Quantity: 1;

Standard accessories: Refrigerant label for F-gas regulation; Quantity: 1;

Standard accessories: Tie-wraps; Quantity: 2; Standard accessories: Auxiliary piping set;Quantity: 1; Standard accessories: Caution label;Quantity: 1;





Specifications

Specifications

Electrical Sp	ecificatio	ns		RXYSA4AV1	RXYSA5AV1	RXYSA6AV1		
Power supply	Name				V1			
	Phase			1~				
	Frequenc	:y	Hz		50			
	Voltage V				220-240			
Power supply into	ake				Both indoor and outdoor unit			
Voltage range	Min.		%		-10			
	Max.		%		10			
Current	Nominal	Cooling	A	16.2 (8)	20.3 (8)	22.8 (8)		
	running							
	current							
	(RLA)							
Current - 50Hz	Nominal	Combina- Cooling			-			
	running	tion A						
	current	Combina- Cooling		-				
	(RLA)	tion B						
		current (MSC) - remark		See note 9				
	Zmax	List			No requirements	(-)		
		Ssc value	kVa	123 (9)	154 (10)	173 (9)		
		circuit amps (MCA)	A		27.0 (11)			
		n fuse amps (MFA)	A		32 (12)			
		rcurrent amps (TOCA)	A		27.0 (13)			
	Full load	lotal	A		1.3 (14)			
	amps (FLA)							
Power Perfor-	Power	Combina- 35°C ISO - Fu	ll load		-			
mance	factor	tion B 46°C ISO - Fu	ıll load		-			
Wiring connec-	For	Quantity		3G				
tions - 50Hz	power							
	supply							
	For	Quantity		2				
	connec-	Remark			F1,F2			
	tion with							
	indoor							

⁽¹⁾ Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0 m | (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0 m | (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)According to ENER Lot 21 |

⁽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 |

⁽⁸⁾RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |

(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/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)TOCA means the total value of each OC set. |

⁽¹⁴⁾FLA means the nominal running current of the fan |



3 Options

3 - 1 Options

RXYSA-AV1 RXYSA-AY1

VRV5-S Heat pump

Option list

Nr.	Item	RXYSA4~6A7V1B	RXYSA4~6A7Y1B
1	Refnet header	KHRQ22M29H	KHRQ22M29H
2	Refnet joint	KHRQ22M20TA	KHRQ22M20TA
3a	Cool/heat selector (switch)	KRC19-26	KRC19-26
3b	Cool/heat selector (fixing box)	KJB111A	KJB111A
4	VRV configurator	EKPCCAB4	EKPCCAB4
5	Bottom plate heater	EKBPH250D	EKBPH250D
6	Sound reduction enclosure	EKLN140A1	EKLN140A1

Notes

- 1 All options are kits
- 2 Cool/Heat selector PCB is standard in unit.
- 3 To mount option ·3a·, option ·3b· is required.

3D127872B





4 Combination table

4 - 1 Combination Table

RXYSA-AV1 RXYSA-AY1

VRV5-S Heat pump

Indoor unit combination restrictions

Combination table	RXYSA4~6A7V1B	RXYSA4~6A7Y1B
·VRV* R32 DX· indoor unit	0	0
·RA DX· indoor unit	X	Χ
Hydrobox unit	X	X
Air handling unit (AHU)	X	Χ

O: Allowed X: Not allowed

3D127866

RXYSA-AV1 RXYSA-AY1

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

Units in scope: $\cdot \text{FXZA15A} \cdot \text{and } \cdot \text{FXAA15A} \cdot.$

- In case the system contains these indoor units and the total connection ratio (·CR·) ≤ ·100·%: no special restrictions.
 Follow the restrictions that apply to regular ·VRV DX· indoor units.
- 2. In case the system contains these indoor units 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.
 - $^{\circ} \ 100\% < \text{CR} \leq 105\% \ -> \quad \cdot \text{CR1} \cdot \ \text{of the sum of all} \cdot \text{FXZA15A} \cdot \ \text{and/or} \cdot \text{FXAA15A} \cdot \ \text{indoor units in the system must be} \leq \cdot 70 \cdot \%.$
 - ° 105% < CR ≤ 110% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ ·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·%.
 - $^{\circ} \ 115\% < \text{CR} \le 120\% \ -> \quad \cdot \text{CR1} \cdot \ \text{of the sum of all} \cdot \text{FXZA15A} \cdot \ \text{and/or} \cdot \text{FXAA15A} \cdot \ \text{indoor units in the system must be} \le \cdot 25 \cdot \%.$
 - ° 120% < CR \leq 125% -> CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be \leq ·10·%. ° 125% < CR \leq 130% -> FXZA15A· and ·FXAA15A· cannot be used.
 - 125/0 16/12 150/0 1 1/12/12/1 4/14 1/4/125/1 64/

Remark

Only the ·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.



5 Capacity tables

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: https://my.daikin.eu/denv/en_US/home/applications/software-finder.html





5 Capacity tables

5 - 2 Capacity Correction Factor

RXYSA-AV1

RXYSA-AY1

VRV5-S Heat pump

Integrated heating capacity coefficient

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

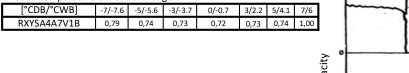
A = Integrated heating capacity

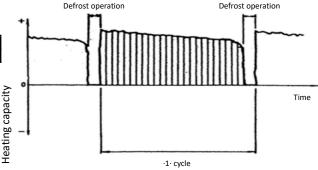
B = Capacity characteristics value

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

A = B * C

Inlet air temperature of heat exchanger





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.

4D127879

RXYSA4AY1 RXYSA4A7(V/Y)1B Correction ratio for cooling capacity Correction ratio for heating capacity **axis : Equivalent length of the main pipe [m] y-axis : Height difference between outdoor unit and furthest indoor unit [m] **Notes* 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 in the above figures. 2. With this outdoor unit, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control 3. Method of calculating the capacity of the outdoor units. The maximum capacity of the system will be their the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.



The correction factor for the main pipe can be found in graphs above.

The correction factor for the longest branch is calculated separately. The maximum allowed branch length of -40· m corresponds with correction factor -0,02·.

4. If the equivalent piping length between the outdoor unit and the furthest indoor unit is ≥ -90- m, the size of the main gas pipe (between outdoor unit and first refrigerant branch kit) must be increased for the new diameters. see below.

	Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø	
	RXYSA4A7V1B	9,5	Not increased	15,9	19,1	
	RXYSA4A7Y1B	9,5	NOT IIICI easeu	15,9		
5.	. Equivalent length of the main pipe					

Equivalent length of the main pipe

Cooling mode

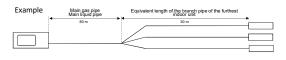
Cooling mode = 80 m x 0,5 = 40 m
 Heating mode = 80 m x 1,0 = 80 m

Capacity correction ratio (height difference = 0)

Cooling mode = 0,95 - (30/40) x 0,02 = 0,935
Heating mode = 0,972 - (30/40) x 0,02 = 0,957

Equivalent length of the main pipe = Equivalent length of the main pipe x

	Standard size	Size increase
Cooling	1,0	0,5
Heating	1,0	1,0



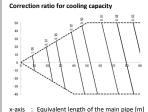


Capacity tables

5 - 2 Capacity Correction Factor



RXYSA5A7(V/Y)1B



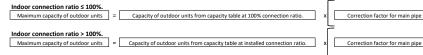
Correction ratio for heating capacity

Height difference between outdoor unit and furthest indoor unit [m]

x-axis : Equivalent length of the main pipe [m] Height difference between outdoor unit and furthest indoor unit [m]

- 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 in the above figures.
- 2. With this outdoor unit, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control
- 3. 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.



40 m 0,02

The correction factor for the main pipe can be found in graphs above

The correction factor for the longest branch is calculated separately. The maximum allowed branch length of -40- m corresponds with correction factor -0,02-

4. If the equivalent piping length between the outdoor unit and the furthest indoor unit is ≥ .90·m, the size of the main gas pipe (between outdoor unit and first refrigerant branch kit) must be increased. For the new diameters, see below.

Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
RXYSA5A7V1B	9,5	Not increased	15,9	19,1

Equivalent length of the main pipe

Heating mode

Capacity correction ratio (height difference = 0)

= 0,928 - (30/40) x 0,02 = 0,913

= 0.973 - (30/40) x 0.02 = 0.958

RXYSA5A7Y1B 5. Equivalent length of the main pipe

Standard size

Cooling

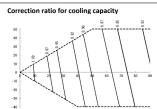
Equivalent length of the main pipe = Equivalent length of the main pipe x Choose the correction factor from the following table



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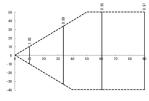
RXYSA6AV1 RXYSA6AY1

RXYSA6A7(V/Y)1B



: Equivalent length of the main pipe [m] Height difference between outdoor unit and furthest indoor unit [m]

Correction ratio for heating capacity



x-axis: Equivalent length of the main pipe [m]

y-axis: Height difference between outdoor unit and furthest indoor unit [m]

- Notes

 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 in the above figures.
- 2. With this outdoor unit, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control

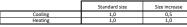
Method of calculating the capacity of the outdoor units.
 The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

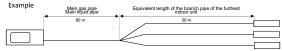


The correction factor for the main pipe can be found in graphs above.
The correction factor for the longest branch is calculated separately. The maximum allowed branch length of -40- m corresponds with correction factor -0,02-.

4. If the equivalent piping length between the outdoor unit and the furthest indoor unit is ≥ -90· m, the size of the main gas pipe (between outdoor unit and first refrigerant branch kit) must be increased. For the new diameters, see below.

	Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø	Equivalent length of the main pipe	
	RXYSA6A7V1B	9,5	Not increased	15,9	19.1	 Cooling mode 	= 80 m x 0,5 = 40 m
	RXYSA6A7Y1B	3,3	Hot mereasea	13,3	13,1	Heating mode	= 80 m x 1,0 = 80 m
5.	Equivalent length of	the main pipe				Capacity correction ratio (height diff	ference = 0)
						 Cooling mode 	= 0,92 - (30/40) x 0,02 = 0,905
	Equivalent length	of the main pipe = Equivale	ent length of the main pipe	x Correction factor		 Heating mode 	= 0,973 - (30/40) x 0,02 = 0,958
	Choose the correction	on factor from the following table.					
		Standard size	Size increase	Example Main gas	nina Equiva	lant langth of the branch pine of the furthest	











6 Exchange efficiency

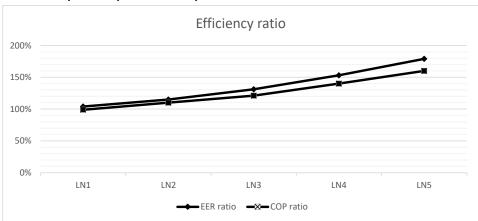
6 - 1 Exchange efficiency

RXYSA-AV1 RXYSA-AY1

VRV5-S

Heat pump

Low noise operation performance specifications



The capacity and efficiency ratios are calculated with reference to the nominal operation specifications.

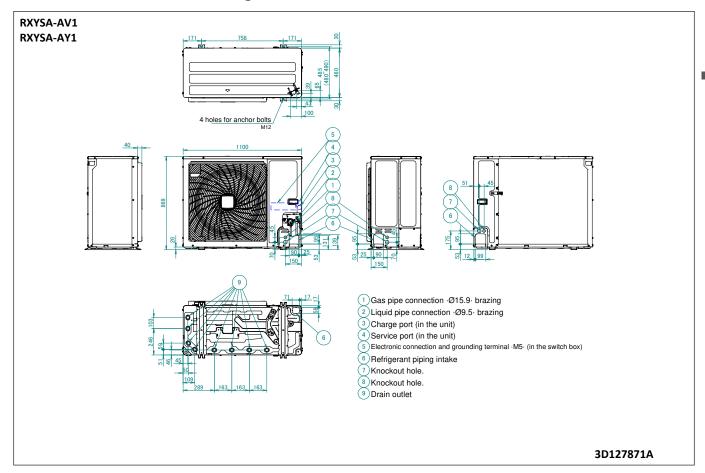
LN1: Low noise level ·1·
LN2: Low noise level ·2·
LN3: Low noise level ·3·
LN4: Low noise level ·4·
LN5: Low noise level ·5·

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



7 Dimensional drawings

7 - 1 Dimensional Drawings

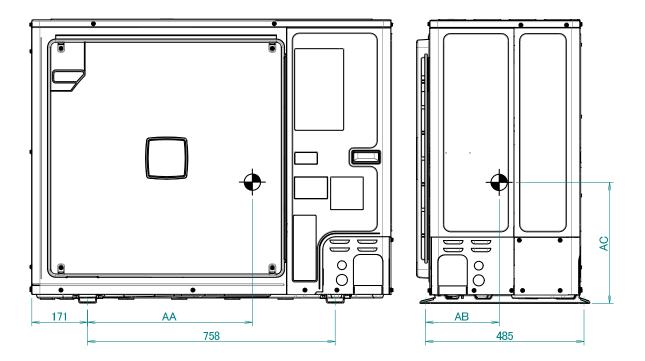




8 Centre of gravity

8 - 1 Centre of Gravity

RXYSA-AV1 RXYSA-AY1



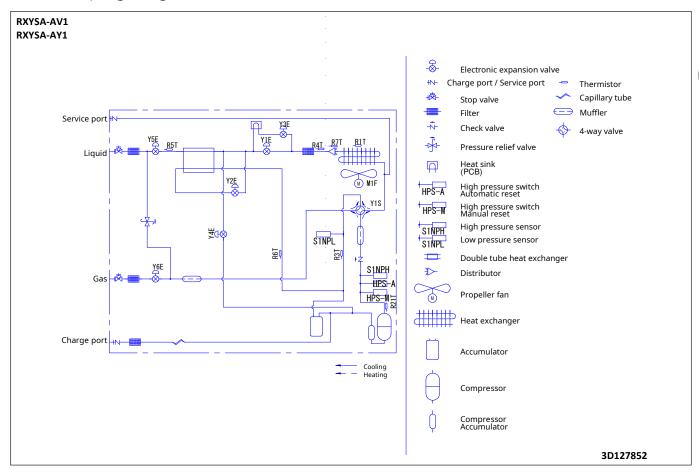
Model	AA	AB	AC
RZAG71N2/7V1B	520.3	238.7	357.8
RZAG71N2/7Y1B	525.9	224.7	359.8
RZAG100N2/7V1B	499.7	239.3	367.6
RZAG100N2/7Y1B	511.2	223.5	362.5
RZAG125/140N2/7V1B	486.3	229.2	371.8
RZAG125/140N2/7Y1B	493.4	215.8	372.2
RXYSA4/5/6A7V1B	530.4	249.9	389.0
RXYSA4/5/6A7Y1B	550.4	2-0.0	000.0

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9 Piping diagrams

9 - 1 Piping Diagrams

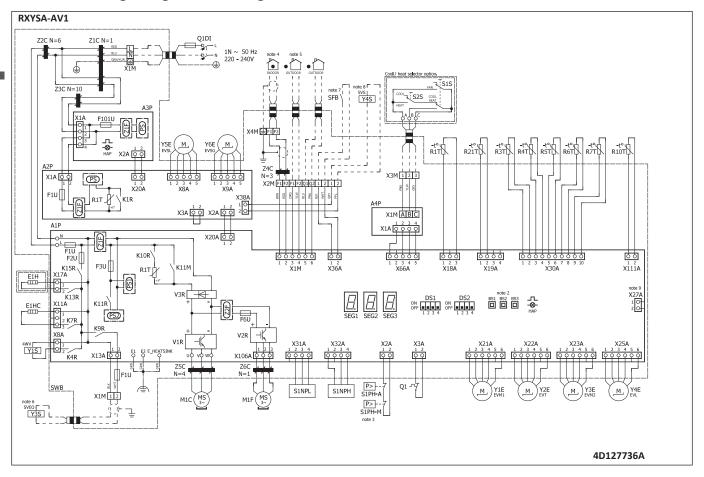






10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase





Wiring diagrams

10 - 2 Notes & Legend

RXYSA-AV1 NOTES to go through before starting the unit 1. Symbols: X1M : Main terminal : Option : Earth wiring 15 : Wire number 15 : Wiring depending on model : Field wire : Field cable : Not mounted in switch box : Screened conductor : PCB (1) : Several wiring possibilities Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1-1 ~ DS1-2 DIP switches. Do not operate the unit by short-circuiting protection device S1PH. S1PH-A automatically resets after high pressure has been exceeded, S1PH-M has to be manually reset after high pressure has been exceeded. S1PH-M has to be manually reset after high pressure has been exceeded. Refer to the installation manual for indoor-outdoor transmission F1-F2 wiring. 5. When using the central control system, connect outdoor-outdoor transmission F1-F2. 5. The capacity of the contact is 220~240V AC - 0,5A (Rush current needs 3A or less). . Use dry contact for micro-current (1 mA or less 12V DC). . Digital output: max 40V DC - 0,025A. Refer to installation manual for how to use this output. For X27A refer to the installation manual of the option. POSITION IN SWITCH BOX АЗР A1P A4P X3M X2M X1M

		Translation can be f	ound in the in	ıstal	lation manual.
Part n°		Description	Part n°		Description
A1P		main PCB	R7T	П	thermistor (heat exchanger)
A2P		sub PCB	R10T		thermistor (fin)
A3P		back up PCB	R21T		thermistor (discharge)
A4P		cool / heat selector PCB	R*T (A*P)	П	PTC thermistor
BS* (A1P)		push button switch	S1NPH		high pressure sensor
DS* (A1P)		dipswitch	S1NPL	П	low pressure sensor
E1H	*	bottom plate heater	S1PH*		high pressure switch
E1HC		crank case heater	S1S	*	air control switch
F1U (A1P)		fuse M 56 A 250 V	S2S	*	cool / heat switch
F1U (A2P)		fuse T 3.15 A 250 V	SEG* (A1P)	П	7-segment display
F1U		fuse T 1.0 A 250 V	SFB	#	mechanical ventilation error input
F2U (A1P)		fuse T 6.3 A 250 V	V1R, V2R		IGBT power module
F3U (A1P)		fuse T 6.3 A 250 V	(A1P)		
F6U (A1P)		fuse T 5 A 250 V	V3R (A1P)		diode module
F101U (A3P)		fuse T 2.0 A 250 V	X*A		PCB connector
HAP		running LED (service monitor-green)	X*M		terminal strip
(A1P,A3P)			X*Y		connector
K*M (A1P)		contactor on PCB	Y1E		electronic exp. valve (main - EVM1)
K*R (A*P)		relay on PCB	Y2E		electronic exp. valve (EVT)
M1C		motor (compressor)	Y3E		electronic exp. valve (main - EVM2)
M1F		motor (fan)	Y4E		electronic exp. valve (EVL)
PS* (A*P)		switching power supply	Y5E		electronic exp. valve (EVSL)
Q1		overload switch	Y6E		electronic exp. valve (EVSG)
Q1DI	#	earth leakage circuit breaker	Y1S		solenoïd valve (4-way valve)
R1T		thermistor (ambient)	Y3S	#	error operation output (SVEO)
R3T		thermistor (suction)	Y4S	#	leak sensor output (SVS)
R4T		thermistor (liquid)	Z*C		noise filter (ferrite core)
R5T		thermistor (subcool)	Z*F (A*P)		noise filter
R6T		thermistor (superheat)	* : optional		#: field supply

LEGEND

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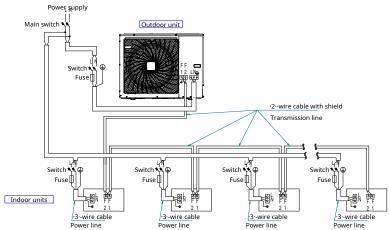
External connection diagrams

11 - 1 **External Connection Diagrams**

RXYSA-AV1

External connection diagram

·VRV· indoor unit

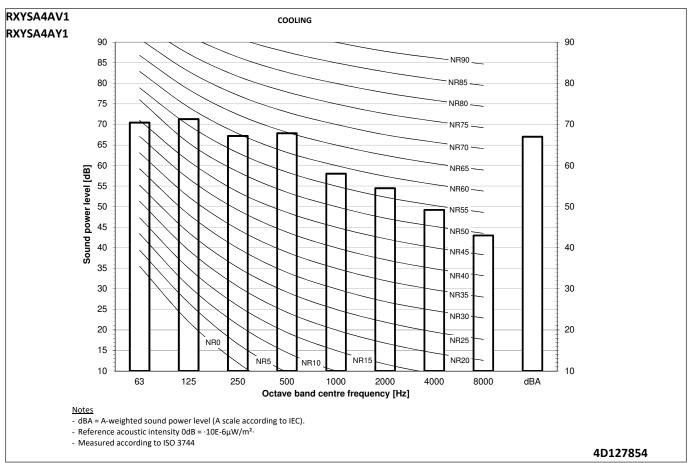


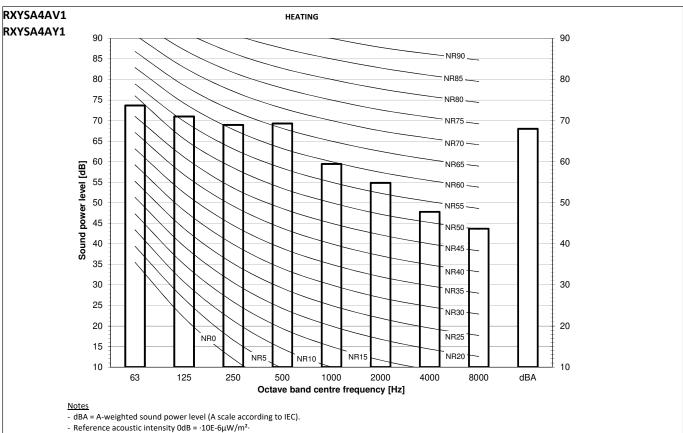
- 1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
- 2. Use copper conductors only
 3. For more details, refer to the wiring diagram of the unit.
- $4\cdot\,$ Install a circuit breaker for safety.
- $5.\,$ All field wiring and components must be provided by an authorised electrician.
- 6. Unit has to be grounded in compliance with the applicable legislation.
- 7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
- 8. Make sure to install the switch and the fuse to the power line of each equipement.
- $9.\,$ Install a main to switch to (if necessary) immediately interrupt all the system's power sources.
- 10. Install an earth leakage circuit breaker.
- 11. To ensure proper earthing, connect the shields of the incoming and outgoing transmission wiring of each indoor unit to each other.
- 12. The unit is equipped with a refrigerant leak detection system for safety.

 To be effective, the unit MUST be electrically powered at all times after installation, except for maintenance.



12 - 1 Sound Power Spectrum







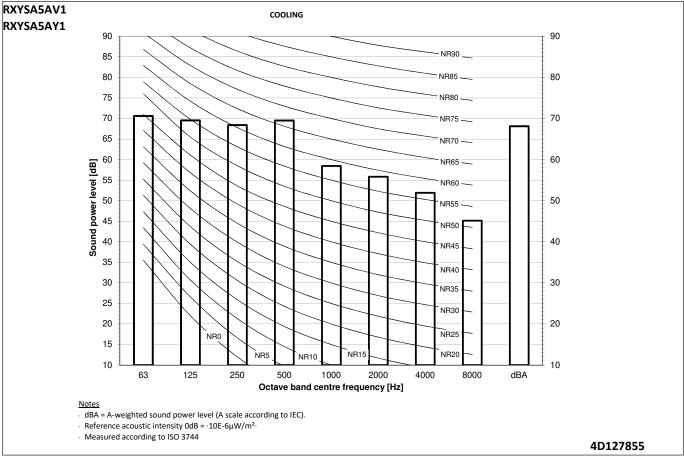
- Measured according to ISO 3744

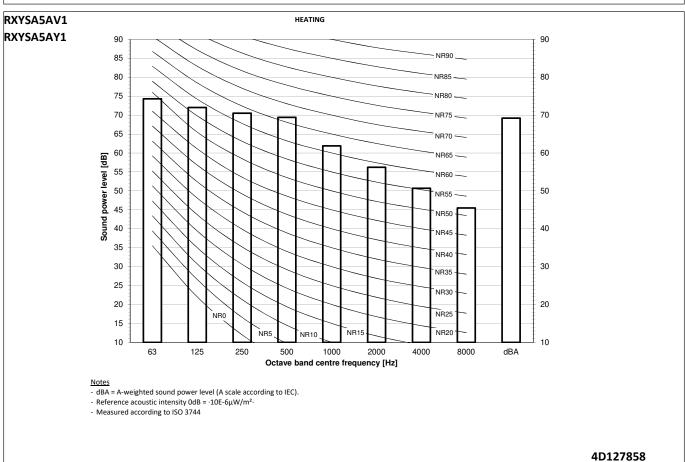
12



12 Sound data

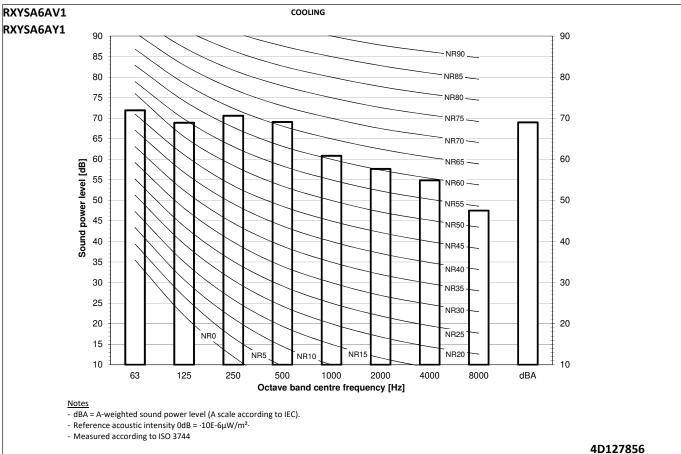
12 - 1 Sound Power Spectrum

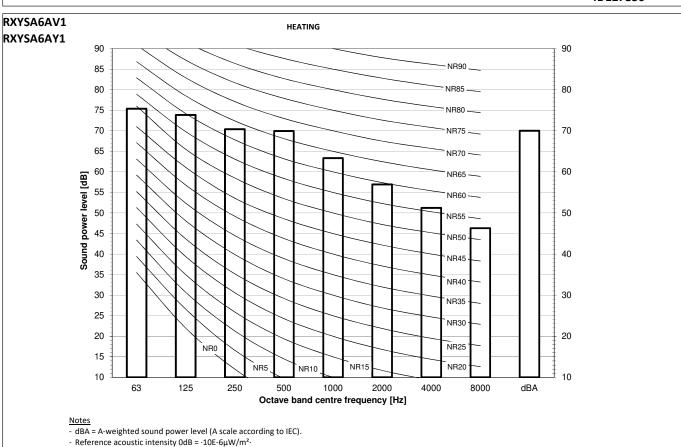






12 - 1 Sound Power Spectrum

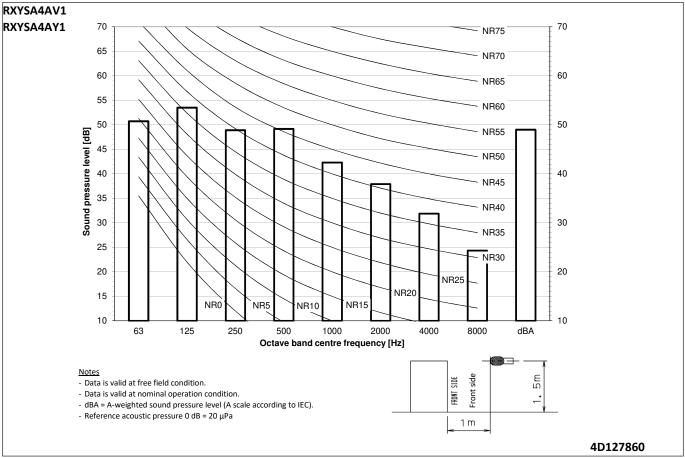


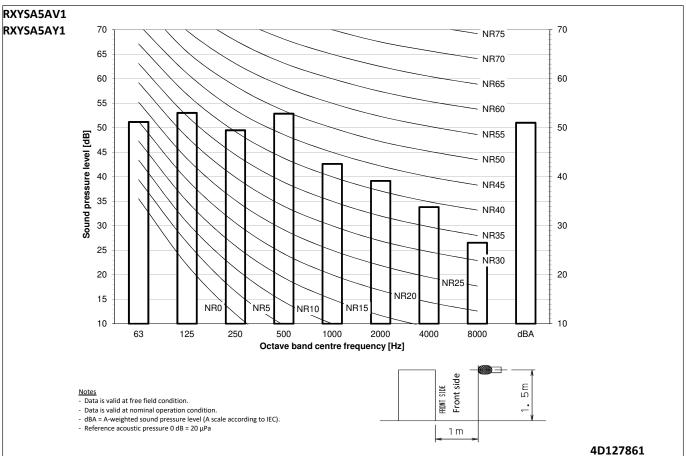


- Measured according to ISO 3744



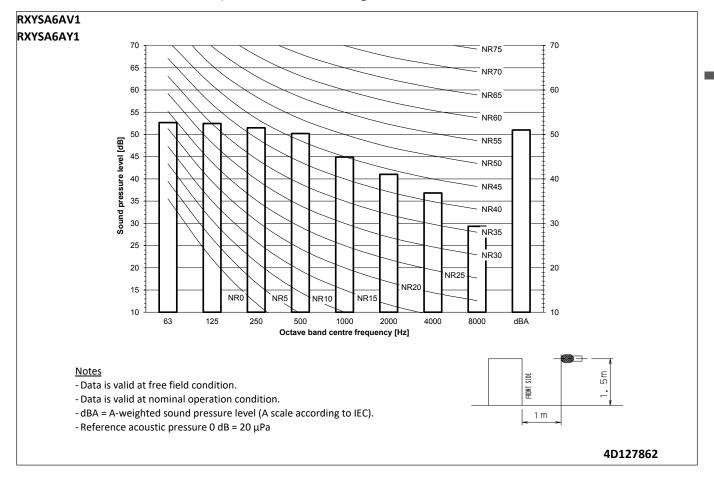
12 - 2 Sound Pressure Spectrum - Cooling





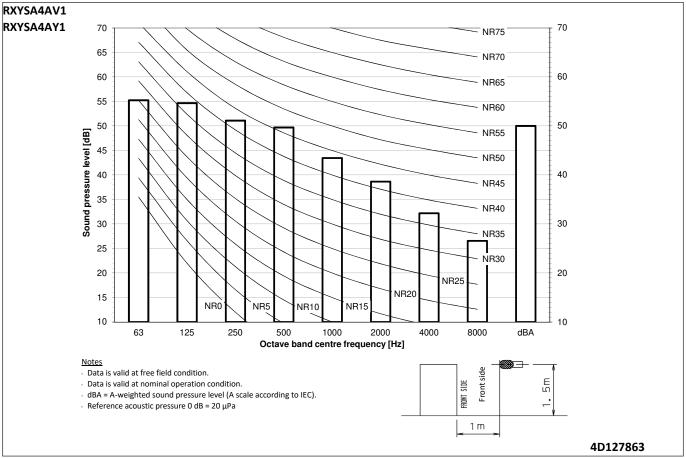


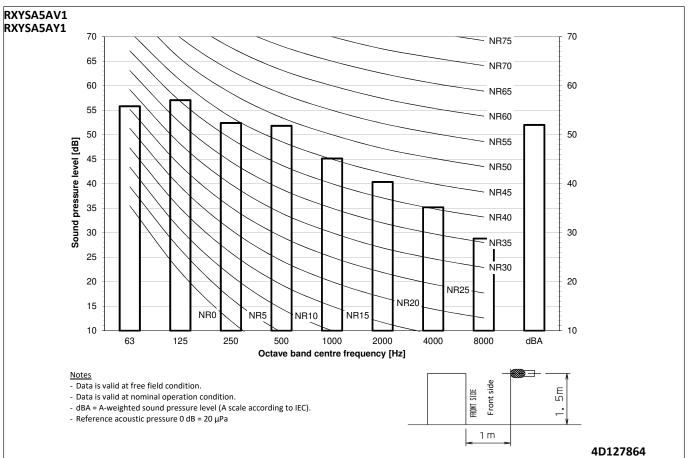
12 - 2 Sound Pressure Spectrum - Cooling





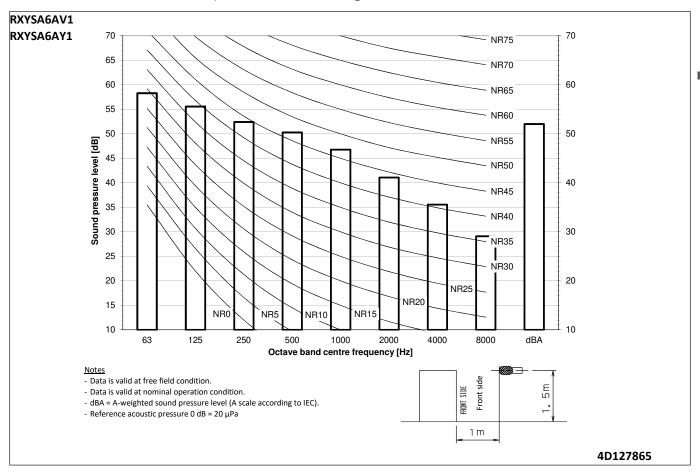
12 - 3 Sound Pressure Spectrum - Heating







12 - 3 Sound Pressure Spectrum - Heating





12 - 4 Sound power spectrum at high ESP

RXYSA-AV1 RXYSA-AY1

VRV5-S Heat pump High ESP

	Cooling	Heating
4НР	Sound power [dBA]	Sound power [dBA]
ESP1	70	72
ESP2	75	77

	Cooling	Heating
5HP	Sound power	Sound power
	[dBA]	[dBA]
ESP1	71	76
ESP2	75	77

	Cooling	Heating
6НР	Sound power [dBA]	Sound power [dBA]
ESP1	71	78
ESP2	75	78

Sound power is measured on a freestanding unit.

Actual sound is depending on the installation of the duct.



12 - 5 Sound level data Quiet mode

RXYSA-AV1 RXYSA-AY1

VRV5-S Heat pump Low noise data (level ·1-5·)

4HP	Coolir	ng	Heatiı	ng
	Sound pressure [dBa]	Sound power [dBA]	Sound pressure [dBa]	Sound power [dBA]
LN1	47	65	48	66
LN2	45	64	46	64
LN3	43	62	44	62
LN4	41	59	42	60
LN5	39	57	40	58

5HP	Coolir	ng	Heatiı	ng
	Sound pressure [dBa]	Sound power [dBA]	Sound pressure [dBa]	Sound power [dBA]
LN1	48	66	51	68
LN2	46	64	48	66
LN3	44	62	46	64
LN4	42	60	44	62
LN5	40	58	42	60

6HP	Coolir	ng	Heating		
	Sound pressure [dBa]	Sound power [dBA]	Sound pressure [dBa]	Sound power [dBA]	
LN1	49	67	51	69	
LN2	47	65	49	67	
LN3	45	63	47	65	
LN4	43	61	45	63	
LN5	41	59	43	61	

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

LN1: Low noise level ·1· LN2: Low noise level ·2· LN3: Low noise level ·3· LN4: Low noise level ·4· LN5: Low noise level ·5·





13 - 1 Installation Method

RXYSA-AV1 RXYSA-AY1

13

Single unit () | Single row of units ()

Suction side

In the illustration below, the service space at the suction side is based on 35°C DB and cooling operation. Foresee more space in the following cases:

- When the suction side temperature regularly exceeds this temperature.
- When the heat load of the outdoor units is expected to regularly exceed the maximum operating capacity.

Discharge side

Take refrigerant piping work into account when positioning the units. If your lay out does not match with any of the layouts below, contact your dealer.

Single unit () | Single row of units ()

Oligio ania () Oligio row or a			<u></u>								
	A~E	ш	b Hd Hu				(mm)				
	A-L	11	TIDTIGTIG		b	С	d	е	e _B	e _D	
	В		-		≥ 100						
	A,B,C		-	≥ 100(1)	≥ 100	≥ 100					
_	B,E		-		≥ 100			≥ 1000		≤500	
e _B	A,B,C,E		-	≥ 150(1)	≥ 150	≥ 150		≥ 1000		≤500]
$e_{\scriptscriptstyle D}$	D		-				≥ 500]
	D,E		-				≥ 500	≥ 1000	≤500		
	D D	I	Hd>Hu		≥ 100		≥ 500				
	B,D	I	Hd≤Hu		≥ 100		≥ 500				
H.I. V V(() II.			Hb≤½Hu		≥ 250		≥ 750	≥ 1000	≤500		
H ₀		Hd>Hu	½Hu>Hb≤Hu		≥ 250		≥ 1000	≥ 1000	≤500		
a la	D.D.E.		Hb>Hu				0				
	B,D,E		Hd≤½Hu		≥ 100		≥ 1000	≥ 1000		≤500	1
		Hd≤Hu	½Hu <hd≤hu< td=""><td></td><td>≥ 200</td><td></td><td>≥ 1000</td><td>≥ 1000</td><td></td><td>≤500</td></hd≤hu<>		≥ 200		≥ 1000	≥ 1000		≤500	
			Hd>Hu				0				
	A,B,C		-	≥ 200(1)	≥ 300 ≥	1000					1 1
	A,B,C,E		-	≥ 200(1)	≥ 300	≥ 1000		≥ 1000		≤500	1
e _B ∽	D		-				≥ 1000				1
e _o .	D,E		-				≥ 1000	≥ 1000	≤500		
		-	Hd>Hu		≥ 300		≥ 1000				
e	B,D	Hd≤Hu	Hd≤½Hu		≥ 250		≥ 1500				
1 1/0/2		пи≥пи	½Hu <hd≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1500</td><td></td><td></td><td></td><td></td></hd≤hu<>		≥ 300		≥ 1500				
HI AND			Hb≤½Hu		≥ 300		≥ 1000	≥ 1000	≤500		
H _D H _B		Hd>Hu	½Hu <hb≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1250</td><td>≥ 1000</td><td>≤500</td><td></td><td></td></hb≤hu<>		≥ 300		≥ 1250	≥ 1000	≤500		
			Hb>Hu				0				
	B,D,E		Hd≤½Hu		≥ 250		≥ 1500	≥ 1000		≤500	1+2
		Hd≤Hu	½Hu <hd≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1500</td><td>≥ 1000</td><td></td><td>≤500</td><td></td></hd≤hu<>		≥ 300		≥ 1500	≥ 1000		≤500	
a A		i iu=i iu	Hd>Hu				0				

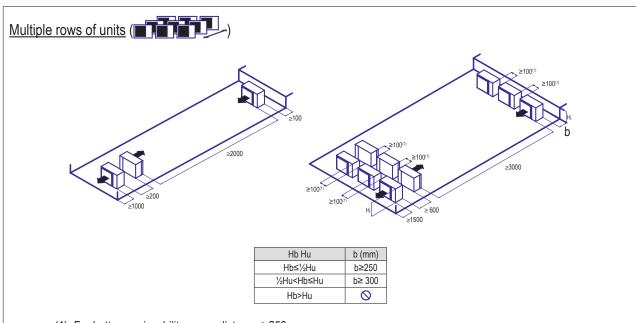
- (1) For better serviceability, use a distance ≥250 mm
- A,B,C,D Obstacles (walls/baffle plates)
 - E Obstacle (roof)
- a,b,c,d,e Minimum service space between the unit and obstacles A, B, C, D and E
 - $e_{\scriptscriptstyle B}$ Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B
 - e_D Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D
 - Hu Height of the unit
 - Hb,Hd Height of obstacles B and D
 - 1 Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction side through the bottom of the unit.
 - 2 Maximum two units can be installed.
 - Not allowed



13 - 1 Installation Method

RXYSA-AV1 RXYSA-AY1





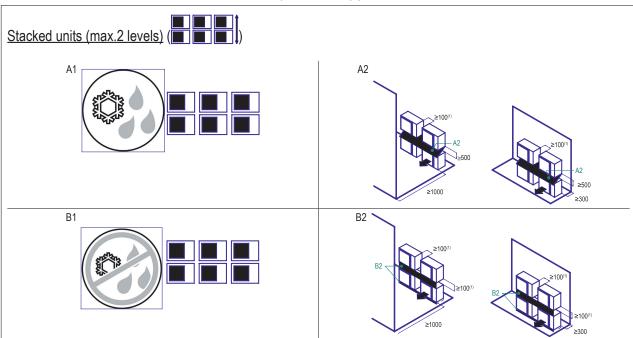
- (1) For better serviceability, use a distance ≥250 mm
- Not allowed

13 - 1 Installation Method

RXYSA-AV1 RXYSA-AY1

13

Stacked units (max.2 levels) (



- (1) For better serviceability, use a distance ≥250 mm
- A1=>A2 (A1) If there is danger of drainage dripping and freezing between the upper and lower units...
 - (A2) Then install a roof between the upper and lower units. Install the upper unit high enough above the lower unit to prevent ice buildup at the upper unit's bottom plate.
- B1=>B2 (B1) If there is no danger of drainage dripping and freezing between the upper and lower units...
 - (B2) Then it is not required to install a roof, but seal the gap between the upper and lower units to prevent discharged air from flowing back to the suction side through the bottom of the unit.



Refrigerant Pipe Selection 13 - 2

RXYSA-AV1

RXYSA-AY1

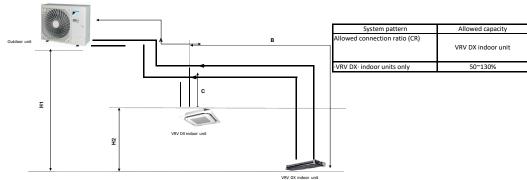
VRV5-S Heat **Piping restric**

Maximum p	iping length	Maximu		
Longest pipe	After first branch	Indoor-to-outdoor	Indoor-to-indoor	Total piping length
(A+B) Actual / (Equivalent)	(B, C) Actual	(H1) Outdoor above indoor / (indoor above outdoor)	(H2)	
See note ·1·.				See note ·2·.
120/(150)m	40m	50/(40)m	15m	300m
	Longest pipe (A+B) Actual / (Equivalent) See note ·1·	(A+B) (B, C) Actual / (Equivalent) Actual See note ·1·.	Longest pipe (A+B) Actual / (Equivalent) See note ·1·. After first branch (B, C) Actual Outdoor above indoor / (indoor above outdoor)	Longest pipe After first branch Indoor-to-outdoor Indoor-to-indoor (A+B) (B, C) (H1) (H2) Actual / (Equivalent) Actual Outdoor above indoor / (indoor above outdoor) See note ·1·

- Notes

 1. Assume equivalent piping length of refnet joint = ·0.5· m and refnet header = ·1· m (for calculation purposes of equivalent piping length, not for refrigerant charge calculations).

 2. Maximum total piping length also depends on refrigerant charge limitations. See ·4D128599·.



Notes

- 1. Schematic indication
- Illustrations may differ from the actual appearance of the unit.
- 2. This is only to illustrate piping length limitations. Refer to combination table ·3D127866· for details about the allowed combinations.

4D127886

RXYSA-AV1 RXYSA-AY1

VRV5-S Heat pump Piping restrictions ·2/2·

System pattern	Allowed capacity
Allowed connection ratio (CR)	VRV DX indoor unit
·VRV DX· indoor units only	50~130%



Refrigerant Charge Information 13 - 3

RXYSA-AV1

RXYSA-AY1 Refrigerant charge restrictions

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

For more information, refer to the installation manual.

Determine the area of the smallest room in order to derive the total refrigerant charge limit in the system.

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

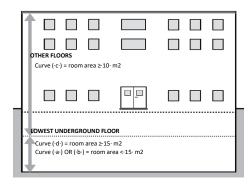
Depending on the installation height of the indoor units, different values may be used in the next step IF:

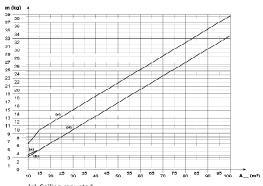
- Installation height is $\cdot 1.8 \le x < \cdot 2.2 \cdot m$, then use the charge limit of the graph for wall-mounted units. Installation height is $\ge \cdot 2.2 \cdot m$, then use the charge limit of the graph for ceiling-mounted units.

Use the graph or table to determine the total refrigerant charge limit in the system.

In case there are any underground floors in the building, there are special requirements for the maximum allowable charge.

- The maximum allowable charge is determined by using graph (-a·), (-b·) or (-d·) for room with the smallest area on the lowest underground floor.
- The maximum allowable charge has to be assessed for the room with the smallest room area in both the lowest underground floor and the other floors.
 The lowest maximum allowable charge of both MUST be used.





- (a) Ceiling-mounted
- (b) Wall-mounted
- (c) Smallest room not in underground floor (d) Smallest room in underground floor

4D128599A

RXYSA-AV1 RXYSA-AY1

A _{min} (m²) — m (kg)	A _{min} (m²) — m (kg)	A _{min} (m²) — m (kg)
10 — 3.9 ^(a) / 3.3 ^(b) / 6.5 ^(c)	41 — 18.8 ^(c) / 13.8 ^(d)	72 — 29.3 ^(c) / 24.3 ^(d)
11 — 4.1 ^(a) / 3.7 ^(b) / 7.2 ^(o)	42 — 19.1 ^(c) /14.1 ^(d)	73 — 29.6 ^(c) / 24.6 ^(d)
12 — 4.3 ^(a) / 4.0 ^(b) / 7.9 ^(c)	43 — 19.5 ^(c) / 14.5 ^(d)	74 — 29.9 ^(c) / 24.9 ^(d)
13 — 4.5 ^(a) / 4.3 ^(b) / 8.6 ^(o)	44 — 19.8 ^(c) / 14.8 ^(d)	75 — 30.3 ^(c) / 25.3 ^(d)
14 — 4.7 ^{(a)(b)} / 9.3 ^(c)	45 — 20.1 ^(c) / 15.1 ^(d)	76 — 30.6 ^(c) / 25.6 ^(d)
15 — 5.0 ^{(a)(b)} / 10.0 ^(o)	46 — 20.5 ^(o) / 15.5 ^(d)	77 — 31.0 ^(c) / 26.0 ^(d)
18 —— 10.4 ^(c) / 5.4 ^(d)	47 — 20.8 ^(c) / 15.8 ^(d)	78 — 31.3 ^(c) / 26.3 ^(d)
17 — 10.7 ^(c) / 5.7 ^(d)	48 — 21.2 ^(e) / 16.2 ^(d)	79 — 31.6 ^(o) / 26.6 ^(d)
18 — 11.0 ^(c) / 6 ^(d)	49 — 21.5 ^(o) / 16.5 ^(d)	80 — 32.0 ^(o) / 27.0 ^(d)
19 — 11.4 ^(c) / 6.4 ^(d)	50 — 21.8 ^(c) / 16.8 ^(d)	81 — 32.3 ^(c) / 27.3 ^(d)
20 — 11.7 ^(c) / 6.7 ^(d)	51 — 22.2 ^(c) / 17.2 ^(d)	82 — 32.6 ^(c) / 27.6 ^(d)
21 — 12.0 ^(c) / 7 ^(d)	52 — 22.5 ^(o) / 17.5 ^(d)	83 — 33.0 ^(c) / 28.0 ^(d)
22 — 12.4 ^(c) / 7.4 ^(d)	53 — 22.8 ^(c) / 17.8 ^(d)	84 — 33.3 ^(c) / 28.3 ^(d)
23 — 12.7 ^(c) / 7.7 ^(d)	54 — 23.2 ^(c) / 18.2 ^(d)	85 — 33.7 ^(c) / 28.7 ^(d)
24 — 13.1 ^(c) / 8.1 ^(d)	55 — 23.5 ^(o) / 18.5 ^(d)	86 — 34.0 ^(c) / 29.0 ^(d)
25 — 13.4 ^(c) / 8.4 ^(d)	56 — 23.9 ^(c) /18.9 ^(d)	87 — 34.3 ^(c) / 29.3 ^(d)
26 — 13.7 ^(c) / 8.7 ^(d)	57 — 24.2 ^(c) / 19.2 ^(d)	88 — 34.7 ^(o) / 29.7 ^(d)
27 — 14.1 ^(c) / 9.1 ^(d)	58 — 24.5 ^(c) / 19.5 ^(d)	89 — 35.0 ^(c) / 30.0 ^(d)
28 — 14.4 ^(c) / 9.4 ^(d)	59 — 24.9 ^(c) / 19.9 ^(d)	90 — 35.3 ^(c) / 30.3 ^(d)
29 — 14.7 ^(c) / 9.7 ^(d)	60 — 25.2 ^(c) /20.2 ^(d)	91 — 35.7 ^(c) /30.7 ^(d)
30 — 15.1 ^(a) /10.1 ^(d)	61 — 25.5 ^(c) / 20.5 ^(d)	92 — 36.0 ^(c) /31.0 ^(d)
31 — 15.4 ^(c) / 10.4 ^(d)	62 — 25.9 ^(c) / 20.9 ^(d)	93 — 36.4 ^(c) /31.4 ^(d)
32 — 15.8 ^(e) / 10.8 ^(d)	63 — 26.2 ^(c) /21.2 ^(d)	94 — 37.7 ^(a) / 31.7 ^(d)
33 — 16.1 ^(c) /11.1 ^(d)	64 — 26.6 ^(c) / 21.6 ^(d)	95 — 37.0 ^(c) /32.0 ^(d)
34 — 16.4 ^(c) /11.4 ^(d)	65 — 26.9 ^(c) /21.9 ^(d)	96 — 37.4 ^(a) /32.4 ^(d)
35 — 16.8 ^(c) / 11.8 ^(d)	66 — 27.2 ^(c) /22.2 ^(d)	97 — 37.7 ^(c) /32.7 ^(d)
36 — 17.1 ^(c) /12.1 ^(d)	67 — 27.6 ^(c) / 22.6 ^(d)	98 — 38.0 ^(a) /33.0 ^(d)
37 — 17.4 ^(c) / 12.4 ^(d)	68 — 27.9 ^{(c)v} / 22.9 ^(d)	99 — 38.4 ^(c) /33.4 ^(d)
38 — 17.8 ^(c) / 12.8 ^(d)	69 — 28.3 ^(a) /23.3 ^(d)	100 — 38.7 ^(c) / 33.7 ^(d)
39 — 18.1 ^(c) / 13.1 ^(d)	70 — 28.6 ^(c) /23.6 ^(d)	
40 —— 18.5 ^(c) / 13.5 ^(d)	71 — 28.9 ^(c) / 23.9 ^(d)	

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Operation range

14 - 1 Operation Range

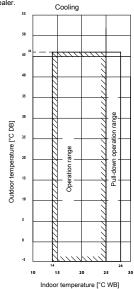
RXYSA-AV1 RXYSA-AY1

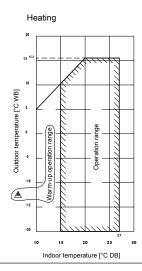
 These figures assume the following operation conditions Indoor and outdoor units

Equivalent piping length: 5m Level difference: 0m

- 2. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- 3. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
- 4. Operation range is valid in case direct expansion indoor units are used. If other indoor units are used, refer to the documentation of the respective indoor units.
- 5. If the unit is selected to operate at ambient temperatures <-5°C for 5 days or more, with relative humidity levels >95%, it is recommended to apply a Daikin range specifically designed for such application.

 For more information, contact your dealer.





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15 Appropriate Indoors

15 - 1 Appropriate Indoors

RXYSA-AV1 RXYSA-AY1

15

Recommended indoor units for ·RXYSA*A*· outdoor units

·· HP	4	5	6
	3xFXSA25	4xFXSA32	2xFXSA32
	1xFXSA32		2xFXSA40

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

Appropriate indoor units for ⋅RXYSA*A*· outdoor units

Covered by ·ENER LOT21·

FXFA20-25-32-40-50-63-80-100-125 FXZA15-20-25-32-40-50 FXDA10-15-20-25-32-40-50-63 FXSA15-20-25-32-40-50-63-80-100-125-140

FXAA15-20-25-32-40-50-63

Outside the scope of ·ENER LOT21·

EKVDX32-50-80-100 + VAMJ8

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