

Air Conditioning Technical Data RXYSQ-T8Y RXYSQ-TY1



- > RXYSQ8TMY1B
- > RXYSQ10TMY1B
- > RXYSQ12TMY1B
- > RXYSQ4T8YB
- > RXYSQ5T8YB
- > RXYSQ6T8YB

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RXYSQ-TY1, RXYSQ-T8Y

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1 Features

1 - 1 RXYSQ-TY1

- Space saving trunk design for flexible installation
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- Wide range of units (4 to 12HP) suitable for projects up to 200m² with space limitations
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function.
 Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures

- VRV configurator software for the fastest and most accurate commissioning, configuration and customisation
- 3 steps in night quiet mode: step 1: 47dBA, step 2: 44 dBA, step 3: 41 dBA
- Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- · Connectable to all VRV control systems
- Keep your system in top condition via our i-Net service: 24/7
 monitoring for maximum efficiency, extended lifetime, immediate
 service support thanks to failure prediction and a clear understanding
 of operability and usage





Inverter

VDAIKIN • VRV Systems • RXYSQ-TY1, RXYSQ-T8Y

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1-2 RXYSQ-T8Y

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Inverter

2 Specifications

2-1 Technical Sp	pecifications				RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1	RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y
Capacity range				HP	8	10	12	4	5	6
Cooling capacity	Nom.	35°C AH	HRI I	kW	22.4 (1)	28.0	33.5		-	
0 , ,				Btu/h	76,400	95,500	114,300		_	
		35°CDB		kW	-,	,	,	-		
		46°C AHRI		kW	17.0	20.0	24.0		_	
		1007.	⊢	Btu/h	58,000	68,200	81,850.0		_	
		48°C AH		kW	15.0	17.0	20.0			
		40 0 71	-	Btu/h	51,150	58,000	68,200.0		<u> </u>	
		F						40.4 (4)	- 44.0 (4)	45.5 (4)
11	N	Euroven		kW	22.4	28.0	33.5	12.1 (1)	14.0 (1)	15.5 (1)
Heating capacity	Nom.	6°CWB		kW	22.4 (2)	28.0 (2)	33.5 (2)	12.1 (2)	14.0 (2)	15.5 (2)
	Max.	6°CWB	_	kW	25.0 (2)	31.5 (2)	37.5 (2)	14.2 (2)	16.0 (2)	18.0 (2)
Power input - 50Hz	Cooling	Nom.	AHRI	kW	6.78	8.54	10.2		-	
			35°CD B	kW			,	-		
			46°C AHRI	kW	5.80	7.02	8.60		-	
			48°C AHRI	kW	5.34	6.80	7.97		-	
				kW	6.12	8.24	10.2	3.03 (1)	3.73 (1)	4.56 (1)
	Heating	Nom.	6°CWB	kW	5.20 (2)	6.60 (2)	8.19 (2)	2.68 (2)	3.27 (2)	3.97 (2)
		Max.		kW	6.22 (2)	8.33 (2)	10.2 (2)	3.43 (2)	4.09 (2)	5.25 (2)
Capacity control	Method	IVIUX.	TO OVED		0.22 (Z)	0.00 (2)		controlled	4.00 (Z)	0.20 (2)
EER at nom. capacity	35°C AHRI			Btu/h	11.3	1.	1.2	-		
LET at nom. capacity	33 CATIKI			kW/kW	3.30 (1)		8 (1)			
				kW/kW	3.30 (1)	3.20	5 (1)		-	
					10.0	0.70	0.50	- I		
	46°C AHRI		<u> </u>	Btu/h	10.0	9.72	9.52		-	
			kW/kW	2.93	2.85	2.79		-		
	48°C AHRI		<u> </u>	Btu/h	9.58	8.53	8.56		-	
	kW/kW				2.81	2.50	2.51		-	Γ
	Eurovent			kW/kW	3.66	3.40	3.30	4.00 (1)	3.75 (1)	3.40 (1)
COP at nom. capacity	6°CWB			Btu/h	12.5		_	-		
				kW/kW	4.31 (2)	4.24 (2)	4.09 (2)	4.52 (2)	4.28 (2)	3.90 (2)
COP at max. capacity	6°CWB			kW/kW	4.02 (2)	3.78 (2)	3.66 (2)	4.14 (2)	3.91 (2)	3.43 (2)
ESEER - Automatic					6.72	6.41	6.18	7.89	7.49	6.73
ESEER - Standard					5.63	5.02	4.87	6.18	5.77	5.23
Maximum number of co	onnectable indoor u	ınits					64	(3)		
Indoor index	Min.				100	125	150	50	62.5	70
connection	Nom.					•		-	•	
	Max.				260	325	390	130	162.5	182
Dimensions	Unit	Height		mm	1,430	1,6	315		1,345	
		Width		mm		940			900	
		Depth		mm	320	4	60		320	
	Packed unit	Height		mm	1,615		745		1,524	
	T donod driit	Width		mm	1,030		015		980	
		Depth	-	mm	420		75		420	
Weight	Unit	I nehiii			144	175	180		104	
vvoigni	Packed unit			kg ka	158	191	196		114	
Docking				kg	100	131		l	114	
Packing	Material		1.	1		_		rton I	2.0	
Dealise	Weight kg acking 2 Material		кg	5.6	8	.2		3.9		
Packing 2					1 -	Wo)OO			
<u> </u>	Weight kg		kg	5.5	8	.8		5.6		
Packing 3	Material							stic		
	Weight			kg	0.3	0	.4		0.5	
Casing	Colour						White			
	Material							ized steel plate		
Heat exchanger	Туре							fin coil		
Fin Treatment Anti-corrosion treatment				on treatment						

2 Specifications

2-1 Technical S	pecifications				RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1	RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y	
Compressor	Quantity				1			1			
	Туре				Hermetica	ally sealed scroll c	compressor	Hermetical	Hermetically sealed swing compressor		
	Crankcase heater			W	33			-			
Fan	Quantity			·	2			2			
	Air flow rate	Cooling	Nom.	m³/min	140	18	82		106		
	External static	Max.		Pa				-			
	pressure										
	Discharge direction						Horiz	ontal			
	Туре					Prope	ller fan				
Fan motor	Quantity							2			
	Output			W		200			70		
	Model			!			Brushless	DC motor			
Sound power level	Cooling	Nom.		dBA	73 (4)	74 (4)	76 (4)	68 (4)	69 (4)	70 (4)	
Sound pressure level	Cooling	Nom.		dBA		(5)	57 (5)	50 (5)	51		
Operation range	Cooling	Min.~Ma	ΙΧ	°CDB		-5~52	0. (0)	33 (3)	-5~46	(*)	
oporation range	Heating	Min.~Ma		°CWB		0 02	-20~	15.5	0 10		
Refrigerant	Type										
rtonigorant	GWP			R-410A 2,087.5							
				TCO ₂ eq	9.4	14.6	16.7	7.5			
	kg			-	5.5	7	8	3.6			
Refrigerant oil	Туре			l kg		Synthetic (ether) oil FVC68D Synthetic (ether) oil FVC50K				CEUK	
Kenigerani oli	Charged volume			2.6	3.2	3.4	Synth	1.4	CJUN		
Piping connections			'		Braze connection			Flare connection			
Piping connections	Liquid	quid Type OD		T	9.52 12.7				9.52		
	0			mm	9.32 12.7 Braze connection			Flare connection Braze		D	
	Gas	Туре			Braze connection		1		connection		
		OD mm		19.1	1 22.2 25.4		15.9 19.1				
	Total piping length	System	Actual	m	13.1	-	20.4	10	300 (6)	15.1	
	Level difference	OU - IU	Outdoo	m					300 (0)		
	Level dillerence	00-10	r unit in	'''			,				
			highest								
			position								
			Indoor	m				-			
			unit in								
			highest								
			position								
	Heat insulation	Taur				•	Both liquid a	nd gas pipes			
	Piping length	OU - IU	Max.	m	300 -						
Defrost method	Γ.	1						ed cycle			
Safety devices	Item	01						sure switch			
		02						rload protector			
		03						oad protector			
		04			PC board fuse						
PED	Category					Category II			Category I		
	Most critical part	Name				Accumulator			Compressor		
		Ps*V		Bar*l	202	2	79		167		

Standard Accessories : Installation manual; Standard Accessories : Operation manual; Standard Accessories : Connection pipes;

2-2 Electrical S	2-2 Electrical Specifications			RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1	RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y	
Power supply	Name	Name			Y1					
	Phase				3N~					
	Frequency Hz		50							
	Voltage		V	380-415						
Voltage range	Min.	Min. %			-10					
	Max.	Max. %		10						
Current	Nominal running current (RLA) - 50Hz	Cooling	А	9.6 (7)	10.7 (7)	13.4 (7)	4.44 (7)	5.55 (7)	6.84 (7)	

2 Specifications

2-2 Electrical Sp	pecifications			RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1	RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y
Current - 50Hz	Zmax	List			-			No requirements	
	Minimum Ssc value		kVa	910 (8)	564 (8)	615 (8)	-		
	Minimum circuit amp	s (MCA)	А	18.5	22.0	24.0	14.1 (9)		
	Maximum fuse amps (MFA) A		А	25		32	16 (10)		
	Total overcurrent amps (TOCA) A		А	16.5 (11)	25.0 (11)	27.0 (11)	14.1 (11)		
	Full load amps (FLA)	Total	A		1.4			0.6 (12)	
Wiring connections -	For power supply	Quantity		5G					
50Hz	For connection with	Quantity		2					
	indoor Remark		F1,F2						
Power supply intake				Both indoor and outdoor unit					

Notes

- (1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series. Eurovent 2015 tolerances are used.
- (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series. Eurovent 2015 tolerances are used.
- (3) Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%).
- (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) Ssc: Short-circuit power
- (7) RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB
- (8) Refer to refrigerant pipe selection or installation manual
- (9) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.
- (10) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).
- (11) TOCA means the total value of each OC set.
- (12) FLA means the nominal running current of the fan

Sound values are measured in a semi-anechoic room.

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

MSC means the maximum current during start up of the compressor. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

Maximum allowable voltage range variation between phases is 2%.

In accordance with EN/IEC 61000-3-11, respectively 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 with Zsys ≤ Zmax, respectively Ssc ≥ minimum Ssc value.

EN/IEC 61000-3-11: European/international technical standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated ≤ 75A

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 \gt 16A and \gt 75A per phase

Zsys: system impedance

The automatic ESEER value corresponds with normal VRV IV-S heat pump operation, including the advanced energy saving functionality (variable refrigerant temperature control).

The standard ESEER value corresponds with normal VRV IV-S heat pump operation, not taking into account the advanced energy saving functionality.

FLA: nominal running current fan

Minimum Ssc (=Short-circuit power) value: Equipment complying with EN/IEC 61000-3-12: European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current \>16A and ≤ 75A per phase

Options Options **3** 3 - 1

RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

Nr.	Item	RXYSCQ4~5TMV1B	RXYSQ4~6T7V1B	RXYSQ4~6T7Y1B	RXYSQ8~12TMY1B	RXYSQ6T7Y1B9
	Refnet header			KHRQ22M29H		
1.	INCHIEL HEADE	-	-	-	KHRQ22M64H	-
				KHRQ22M20T		
II.	Refnet joint	-	•	-	KHRQ22M29T9	-
		-	•	-	KHRQ22M64T	-
1a.	Cool/heat selector (switch)	-	KRC19-26 -		-	KRC19-26
1b.	Cool/heat selector (fixing box)	-	KJB111A		-	KJB111A
1c.	Cool/heat selector (PCB)	-	EBRP2B	-	-	-
1d.	Cool/heat selector (cable)	-	•	EKCHSC	-	EKCHSC
2.	Drain plug kit	-	EKD	K04	-	EKDK04
3.	VRV configurator			EKPCCAB*		
4.	Demand PCB	DTA104A61/62*				
	Branch provider - 2 rooms	BPMKS967A2 -				-
6.	Branch provider - 3 rooms		BPMK	S967A3	•	-

- Notes

 1. All options are kits
 2. To mount option 1a, option 1b is required.
 3. For RXYSQ4~6T7V1B
 To operate the cool/heat selector function, options 1a and 1c are both required.
 4. For RXYSQ4~6T7V1B
 To operate the cool/heat selector function, options 1a and 1d are both required.

3D097778A

RXYSQ-T8Y

Nr.	ltem	RXYSCQ4~5TMV1B	RXYSQ4~6T7V1B RXYSQ4~6T8VB	RXYSQ4~6T7Y1B RXYSQ4~6T8YB	RXYSQ8~12TMY1B	RXYSQ6T7Y1B9 RXYSQ6T8Y1B9			
	Refnet header	KHRQ22M29H							
١.	inemet neader	-	-	-	KHRQ22M64H	-			
				KHRQ22M20T					
II.	l. Refnet joint	-	-	-	KHRQ22M29T9	-			
		-	=	=	KHRQ22M64T	-			
1a.	Cool/heat selector (switch)	=	KRC19-26		=	KRC19-26			
1b.	Cool/heat selector (fixing box)	-	KJB:	111A	-	KJB111A			
1c.	Cool/heat selector (PCB)	=	EBRP2B	-	=	-			
1d.	Cool/heat selector (cable)	=	=	EKCHSC	=	EKCHSC			
2.	Drain plug kit	=	EKD	K04	=	EKDK04			
3.	VRV configurator			EKPCCAB*					
4.	Demand PCB	DTA104A61/62*							
5.	Branch provider - 2 rooms	BPMKS967A2 -							
6.	Branch provider - 3 rooms		BPMKS	S967A3		-			

- Notes

 1. All options are kits
 2. To mount option 1a, option 1b is required.
 3. For RXYSQ4-6TFV1B
 For RXYSQ4-6TBVB
 To operate the cool/heat selector function, options 1a and 1c are both required.
 4. For RXYSQ4-6TBVB
 For RXYSQ4-6TBVB
 To operate the cool/heat selector function, options 1a and 1d are both required.

3D097778B

4 - 1 **Combination Table**

RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

Indoor unit combination pattern	VRV* DX box + indoor unit	RA DX box + indoor unit	Hydrobox unit	Air handling unit (AHU) (1)
VRV* DX box + indoor unit	0	х	х	0
RA DX box + indoor unit	х	0	х	х
Hydrobox unit (1)	x	х	х	х
Air handling unit (AHU)	0,	х	х	0,

- Notes

 1. O₁

 Combination of AHU only + control box EKEQFA (not combined with VRV DX indoor units)

 X-control is possible (up to 3k (EKEXP-KEXC)FA* boxes] can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

 Y-control is possible (up to 3k (EKEXP-KEXC)FA* boxes] can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

 Y-control is possible (up to 3k (EKEXP-KEXC)FA* boxes) can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

 Y-control is possible (up to 3k (EKEXP-KEXC)FA* boxes) can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

 Y-control is possible (up to 3k (EKEXP-KEXC)FA* boxes) can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

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 Y-control is possible (up to 3k (EKEXP-KEXC)FA* boxes) can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

 Y-control is possibl
- Combination of AHU and VRV DX indoor units
 Z-control is possible (EKEQMA* boxes are allowed, but with a limited connection ratio).
- 3. (1) The following units are considered AHUs:

 → EKEXY + EKEQ(MA/FA) + AHU coil

 → Biddle air curtain

 → FXMQ_MF units

Information
- VKM units are considered to be regular VRV DX indoor units.

3D097983

RXYSCQ-TV1 **RXYSQ-TV1 RXYSQ-TY1**

Combination table	RXYSCQ4~5TMV1B	RXYSQ4~6T7V1B	RXYSQ4~6T7Y1B	RXYSQ8~12TMY1B
VRV* DX box + indoor unit	0	0	0	0
RA DX box + indoor unit	0	0	0	0
Hydrobox unit	Х	Х	X	X
Air handling unit (AHU) (2)	0	0	0	0

O: Allowed X: Not allowed

Notes

1. (2) The following units are considered AHUs:

→ EKEXV + EKEQ(MA/FA) + AHU coll

→ Biddle air curtain

→ FXMQ_MF units

4 Combination table

4 - 1 Combination Table

RYSCQ-TV1 RXYSQ-TV1_TY1

VRV4-S Heat pump RA/SA DX indoor unit Compatibility list

	Configura	tion	Indoor unit type
	Wall-mounted	Emura	FTXG20L (W/S)
			FTXG25L (W/S)
			FTXG35L (W/S)
			FTXG50L (W/S)
		FTXS	FTXS20K
			FTXS25K
			FTXS35K
			FTXS42K
			FTXS50K
			FTXS60G
			FTXS71G
		CTXS	CTXS15K
.=			CTXS35K
들	Floor-standing	Flex	FLXS25B
5	Ceiling-mounted		FLXS35B
횽			FLXS50B
.≧			FLXS60B
RA indoor unit	Floor-standing	FVXS	FVXS25F
-			FVXS35F
			FVXS50F
		Nexura	FVXG25K
			FVXG35K
			FVXG50K
		FNQ	FNQ25A
			FNQ35A
			FNQ50A
			FNQ60A
	Duct	FDXS	FDXS25F
			FDXS30F
			FDXS50F9
			FDXS60F

	Config	uration	Indoor unit type
	Cassette	Fully Flat 2x2	FFQ25C
			FFQ35C
			FFQ50C
			FFQ60C
		Roundflow 3x3	FCQG35F
Ħ			FCQG50F
3			FCQG60F
ē			FCQG71F
SA indoor unit	Ceiling-suspended		FHQ35C
=			FHQ50C
S			FHQ60C
			FHQ71C
	Duct		FBQ35D
			FBQ50D
			FBQ60D
			FBQ71D

<u>emark</u>

1. The limitations on the use of RA/SA indoor units with the VRV4-S Heat Pump are subject to the rules set out in drawings 3D097983 and 3D097984.

3D097777A

RXYSQ-TV1/TY1

Unit combination restrictions: VRV4 outdoor units (all models)+ 15-class indoor units

Units in scope: FXZQ15A and FXAQ15A.

- 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 FXZQ15A and/or FXAQ15A 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 FXZQ15A and/or FXAQ15A units in the syste m ≤ 70%, and NOT ALL other VRV DX indoor units have an individual capacity class > 50: the restrictions below apply.
 - 100% < CR \leq 105% \Longrightarrow CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be \leq 70%.
 - 105% < CR \leq 110% -> CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be \leq 60%.
 - 110% < CR ≤ 115% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 40%.
 115% < CR ≤ 120% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 25%.
 - 120% < CR ≤ 125% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 25%.
 - 125% < CR \leq 130% \Longrightarrow FXZQ15A and FXAQ15A cannot be used.

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.

Combination Table

RXYSQ-T8Y

	Configurat	ion	Indoor unit type
	Wall-mounted	Emura	FTXG20L (W/S)
			FTXG25L (W/S)
			FTXG35L (W/S)
			FTXG50L (W/S)
		FTXS	FTXS20K
			FTXS25K
			FTXS35K
			FTXS42K
			FTXS50K
			FTXS60G
			FTXS71G
		CTXS	CTXS15K
Ħ			CTXS35K
un n	Floor-standing	Flex	FLXS25B
ō	Ceiling-mounted		FLXS35B
ဝဓ			FLXS50B
RA indoor unit			FLXS60B
≴	Floor-standing	FVXS	FVXS25F
"			FVXS35F
			FVXS50F
		Nexura	FVXG25K
			FVXG35K
			FVXG50K
		FNQ	FNQ25A
			FNQ35A
			FNQ50A
			FNQ60A
	Duct	FDXS	FDXS25F
			FDXS30F
			FDXS50F9
			FDXS60F

C	onfiguration	Indoor unit type
Cassette	Fully Flat 2x2	FFQ25C
		FFQ35C
		FFQ50C
		FFQ60C
	Roundflow 3x3	FCQG35F
≝		FCQG50F
Ceiling-suspended		FCQG60F
ē		FCQG71F
Ceiling-suspended		FHQ35C
		FHQ50C
SA		FHQ60C
		FHQ71C
Duct		FBQ35D
		FBQ50D
		FBQ60D
		FBQ71D

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RXYSQ-T8Y

Combination table	RXYSCQ4~5TMV1B	RXYSQ4~6T7V1B	RXYSQ4~6T7Y1B	RXYSQ8~12TMY1B
·VRV* DX· indoor unit	0	0	0	0
·RA DX· indoor unit	0	0	0	0
Hydrobox unit	X	X	X	X
Air handling unit (AHU) (2)	0	0	0	0

O: Allowed

X: Not allowed

Notes

1. (2) The following units are considered AHUs:

→ EKEXV + EKEQ(MA/FA) + AHU· coil

→ Biddle- air curtain

→ FXMQ_MF· 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:

Capacity table database: lets you find back and export quickly the capacity information you are looking for based upon unit
model, refrigerant temperature and connection ratio.
 Click here to access the capacity table viewer.



• For more information about all our tools we offer click here to see the overview on my.daikin.eu



RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

Integrated heating capacity coefficient

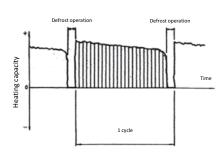
The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation. The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

- Integrated heating capacity
- Capacity characteristics value Integrated correction factor for frost accumulation (see table)

A = B * C

rature of heat eychanger

	inlet air temperature or neat exchanger							
I	[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
ſ	RXYSCQ4TMV1B							
ı	RXYSCQ5TMV1B							
ı	RXYSQ4T7V1B							
ı	RXYSQ5T7V1B							
ı	RXYSQ6T7V1B	0,88	0,86	0,80	0,75	0,76	0,82	1,00
ı	RXYSQ4T7Y1B							
ı	RXYSQ5T7Y1B							
ı	RXYSQ6T7Y1B							
ı	RXYSQ6T7Y1B9							
ı	RXYSQ8TMY1B	0,95	0,93	0,88	0,84	0,85	0,90	1,00
	RXYSQ10TMY1B	0,95	0,93	0,87	0,79	0,80	0,88	1,00
	RXYSQ12TMY1B	0,95	0,92	0,87	0,75	0,76	0,85	1,00



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

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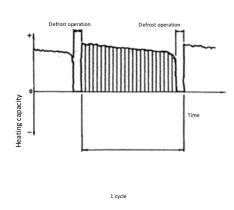
RXYSQ-T8Y

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:

- Integrated heating capacity Capacity characteristics value
- Integrated correction factor for frost accumulation (see table)

Inlet air temperature of heat exchanger

[CDB/ CWB]	-//-/.0	-5/-5.0	-5/-5./	0/-0./	3/2.2	3/4.1	//0
RXYSCQ4TMV1B							
RXYSCQ5TMV1B							
RXYSQ4T7V1B							
RXYSQ5T7V1B							
RXYSQ6T7V1B							
RXYSQ4T7Y1B							
RXYSQ5T7Y1B				0,75	0,76	0,82	1,00
RXYSQ6T7Y1B	0.00		0,80				
RXYSQ6T7Y1B9	0,88	0,86					
RXYSQ4T8VB							
RXYSQ5T8VB							
RXYSQ6T8VB							
RXYSQ4T8YB							
RXYSQ5T8YB							
RXYSQ6T8YB							
RXYSQ6T8Y1B9							
RXYSQ8TMY1B	0,95	0,93	0,88	0,84	0,85	0,90	1,00
RXYSQ10TMY1B	0,95	0,93	0,87	0,79	0,80	0,88	1,00
RXYSQ12TMY1B	0,95	0,92	0,87	0,75	0,76	0,85	1,00
	•	•	•	•	•	-	-

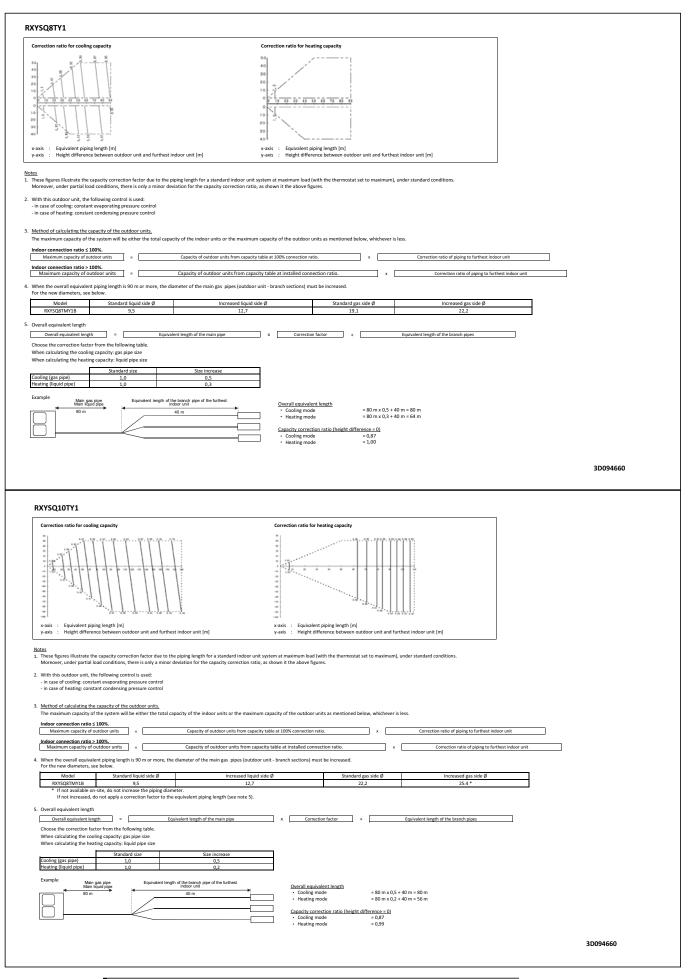


- The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).
- When there is an accumulation of snow against the outdoor unit heat exchanger, there will always be a temporary reduction in capacity depending on the outdoor temperature (*C DB), relative humidity (RH) and the amount of frosting which occurs.

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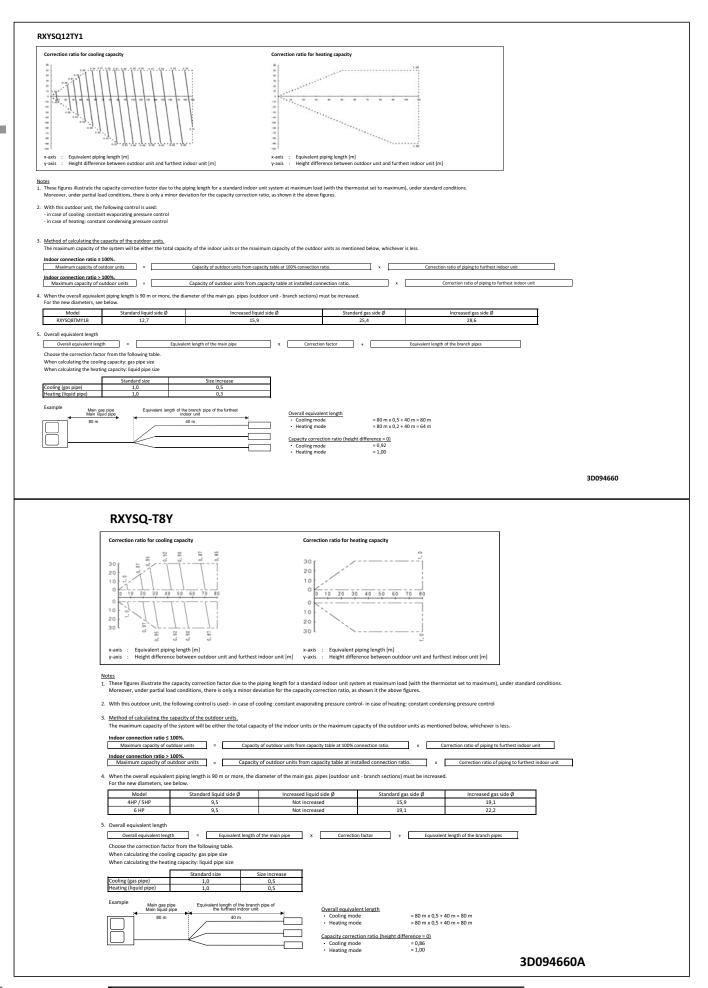
5 Capacity tables

5 - 3 Capacity Correction Factor



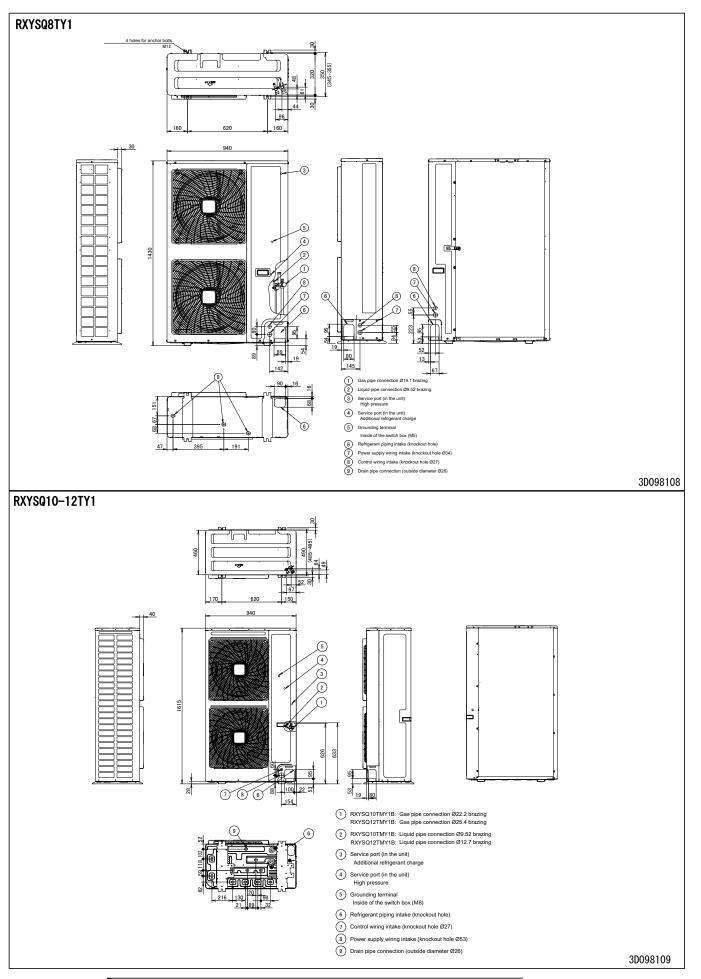
5 Capacity tables

5 - 3 Capacity Correction Factor

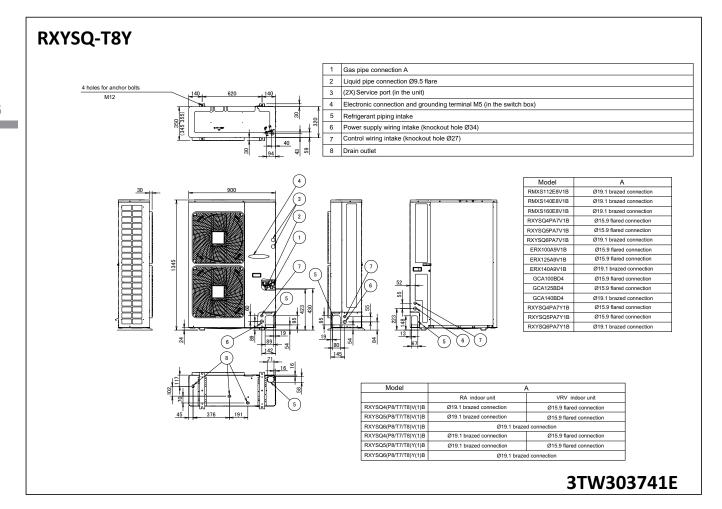


6 Dimensional drawings

6 - 1 Dimensional Drawings



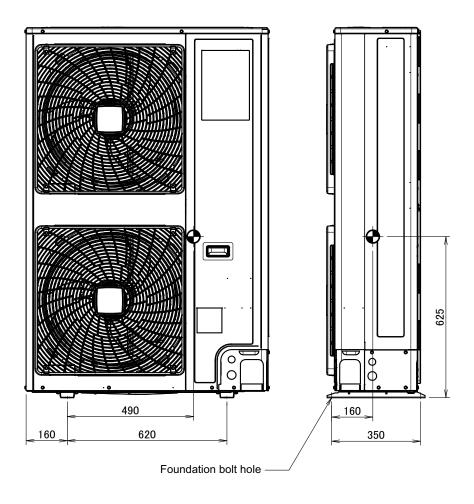
6 - 1 Dimensional Drawings



6

Centre of gravity Centre of Gravity **7** 7 - 1

RXYSQ8TY1

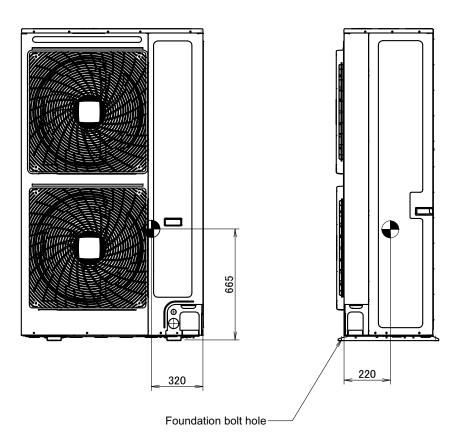


Centre of gravity Centre of Gravity

-7 - 1

RXYSQ10-12TY1

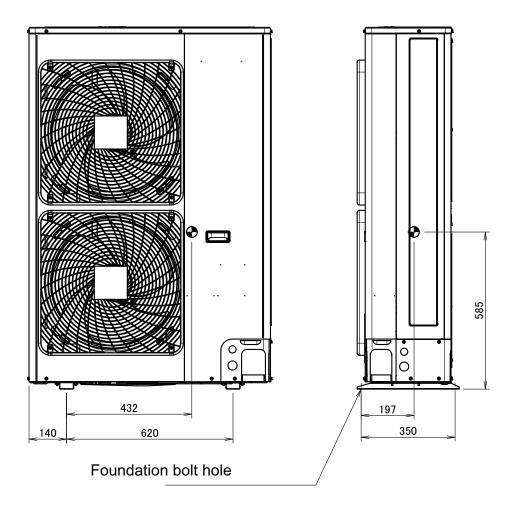
7



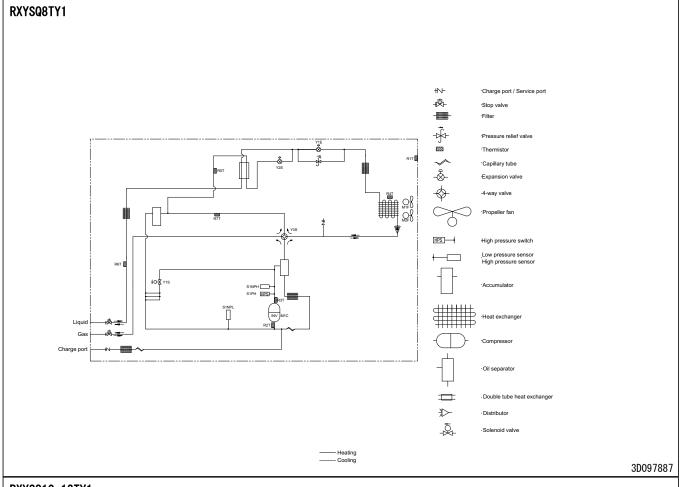
Centre of gravity Centre of Gravity

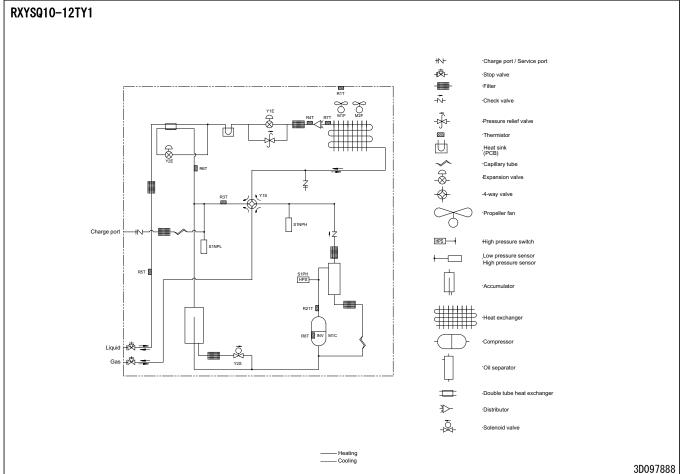
7 - 1

RXYSQ-T8Y



8 - 1



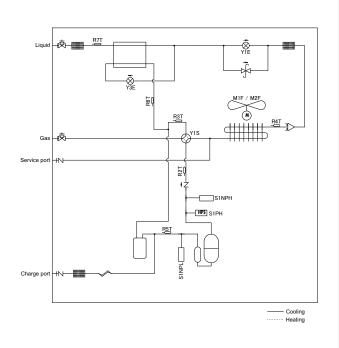


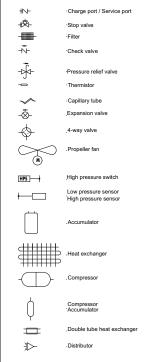
8

Piping diagramsPiping Diagrams 8

8 - 1







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RXYSQ-T8Y

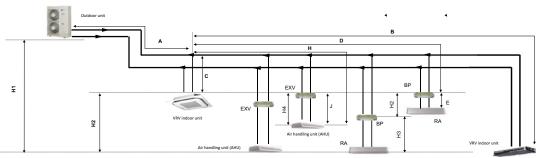
For the reference drawing, see page 2/3.		Maximum pi	iping length	Maximum height difference		
		Longest pipe (A+[B,D+E,H]) Actual / (Equivalent)	After first branch (B,D+E,H) Actual	Indoor-to-outdoor (H1) Outdoor above indoor / (indoor above outdoor)	Indoor-to-indoor (H2)	Total piping length
Standard	RXYSCQ4~5TMV1B	70/(90)m	40m	30/(30)m	15m	300m
RXYSQ4~6T7(V/Y)1B		120/(150)m	40m	50/(40)m	15m	300m
	RXYSQ8TMY1B	100/(130)m	40m	50/(40)m	15m	300m
	RXYSQ10~12TMY1B	120/(150)m	40m	50/(40)m	15m	300m
	RXYSCQ4~5TMV1B	35/(45)m	40m	30/(30)m	15m	140m
RA connection	RXYSQ4~6T7(V/Y)1B RXYSQ4~6T8(V/Y)B	65/(85)m	40m	30/(30)m	15m	140m
	RXYSQ8TMY1B	80/(100)m	40m	30/(30)m	15m	140m
	RXYSQ10~12TMY1B	80/(100)m	40m	30/(30)m	15m	140m
	Pair	50/(55)m (1)	-	40/(40)m	-	-
Air handling unit (AHU)	Multi (2)	50/(55)m ⁽¹⁾	40m	40/(40)m	15m	300m
connection	Mix (3)	50/(55)m (1)	40m	40/(40)m	15m	300m

- The allowable minimum length is 5 m.
 Multiple air handling units (AHU)(EKEXV + EKEQ kits).
- 3. Mix of air handling units (AHU) and VRV DX indoor units.

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8 - 1 Piping Diagrams

RXYSQ-T8Y



- Schematic indication
 Illustrations may differ from the actual appearance of the unit.
 This is only to illustrate piping length limitations.
 Refer to combination table :30097983 · for details about the allowed combinations.

		Allowed piping length		Maximum he	ight difference
		·BP· to ·RA·	·EXV· to ·AHU·	·BP· to ·RA·	·EXV· to ·AHU·
		(E)	(J)	(H3)	(H4)
·RA· connection		2~15m	-	5m	-
	Pair		≤5m	-	5m
Air handling unit (AHU)	Multi (1)		≤5m	-	5m
Connection	Mix (2)		≤5m		5m

- Multiple air handling units (·AHU·)(·EKEXV· + ·EKEQ· kits).
 Mix of air handling units (·AHU·) and ·VRV DX· indoor uni

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RXYSQ-T8Y

System pattern		Total	Allowed capacity		
Allowed connection ratio (CR) Other combinations are not allowed.	Capacity	Maximum allowed amount of connectable indoor units (-VRV, RA, AHU-) Excluding -BP- units and including -EXV- kits.		·RA DX∙ indoor unit	Air handling unit (AHU)
·VRV DX· indoor units only	50~130%	Maximum -64-	50~130%	-	-
·RA DX· indoor units only	80~130%	Maximum ·32· (1)	-	80~130%	-
·VRV DX· indoor unit + ·AHU· Mix	50~110% (3)	Maximum -64- (2)	50~110%	-	0~110%
·AHU· only Pair + multi (4)	90~110% (3)	Maximum ·64- (2)	-	-	90~110%

- Notes

 1. There is no restriction on the number of connectable -BP- boxes.

 2. -EKENY- kits are also considered indoor units.

 3. Restrictions regarding the air handling unit capacity.

 4. Pair AHU = system with 1 air handling unit connected to one outdoor unit Multi AHU = system with multiple air handling units connected to one outdoor unit

About ventilation applications

- I. -FXMQ_MF- units are considered air handling units, following air handling unit limitations.
 Maximum connection ratio when combined with -VRV DX- indoor units: -CR \leq 30-%.

 - Maximum connection ratio when only air handling units are connected: $-CR \le 100\%$.
 Minimum connection ratio when only -FXMQ_MF- units are connected: $-CR \le 50\%$ For information on the operation range, refer to the documentation of the -FXMQ_MF- unit.

- For information on the operation range, refer to the documentation of the -FXMQ_MF unit.

 II. -Bilddle- air curtains are considered air handling units, following air handling unit limitations:
 For information on the operation range, refer to the documentation of the -Bilddle unit.

 III. -EKEXY + EKEQ: units combined with an air handling unit are considered air handling units, following air handling unit limitations.
 For information on the operation range, refer to the documentation of the -EKEXV-EKEQ- unit.

 IV. -VKM- units are considered to be regular -VRV DX- indoor units.
 For information on the operation range, refer to the documentation of the -VKM- unit.

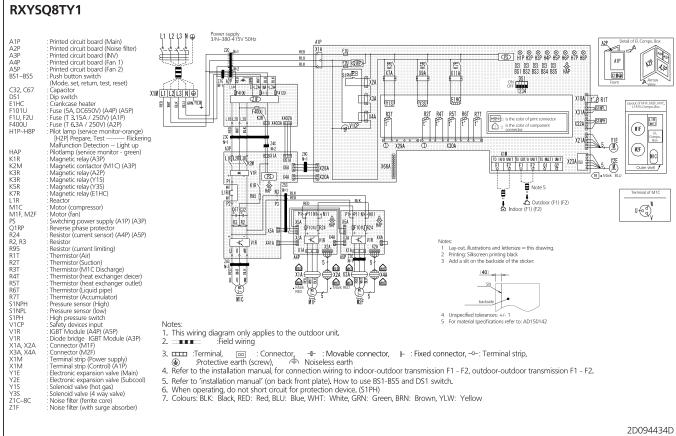
 V. Because there is no refrigerant connection with the outdoor unit (only communication F1/F2), -VAM- units do not have connection limitations.

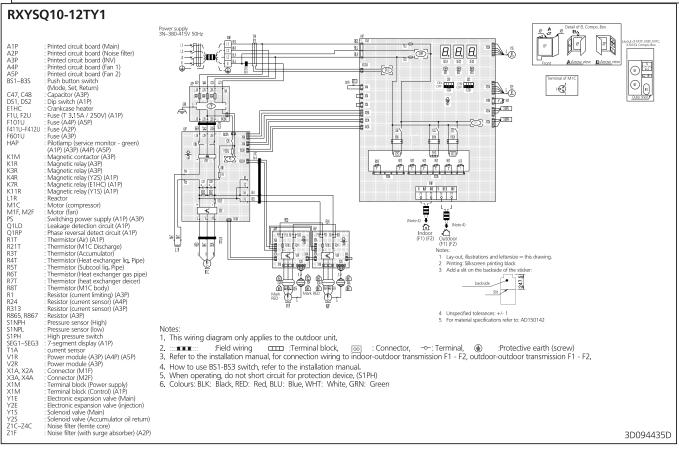
 However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units.

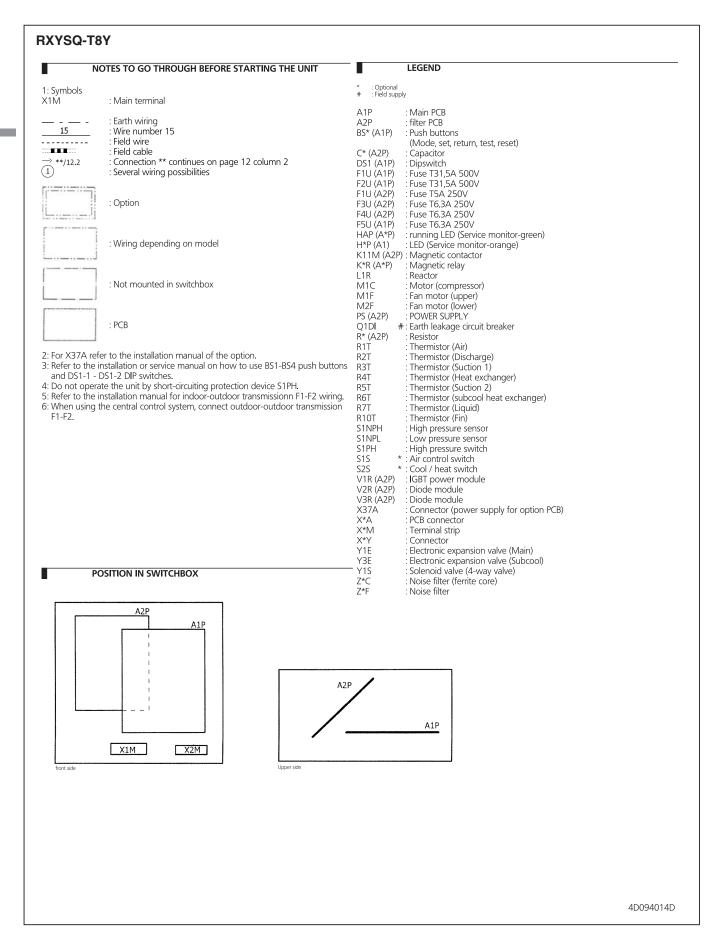
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9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

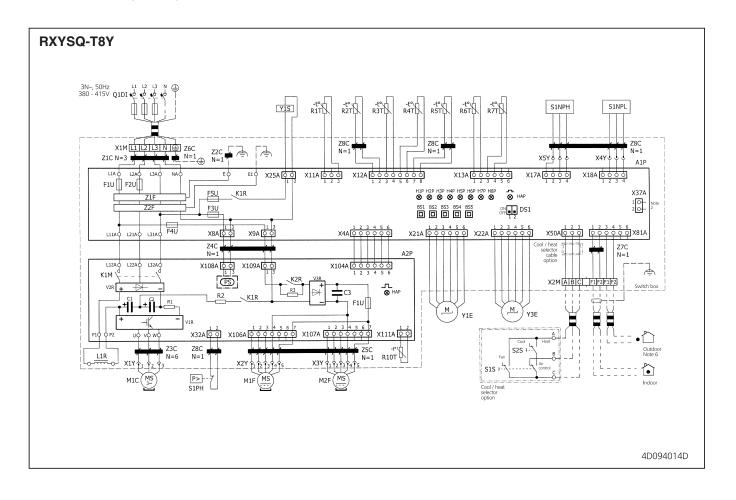




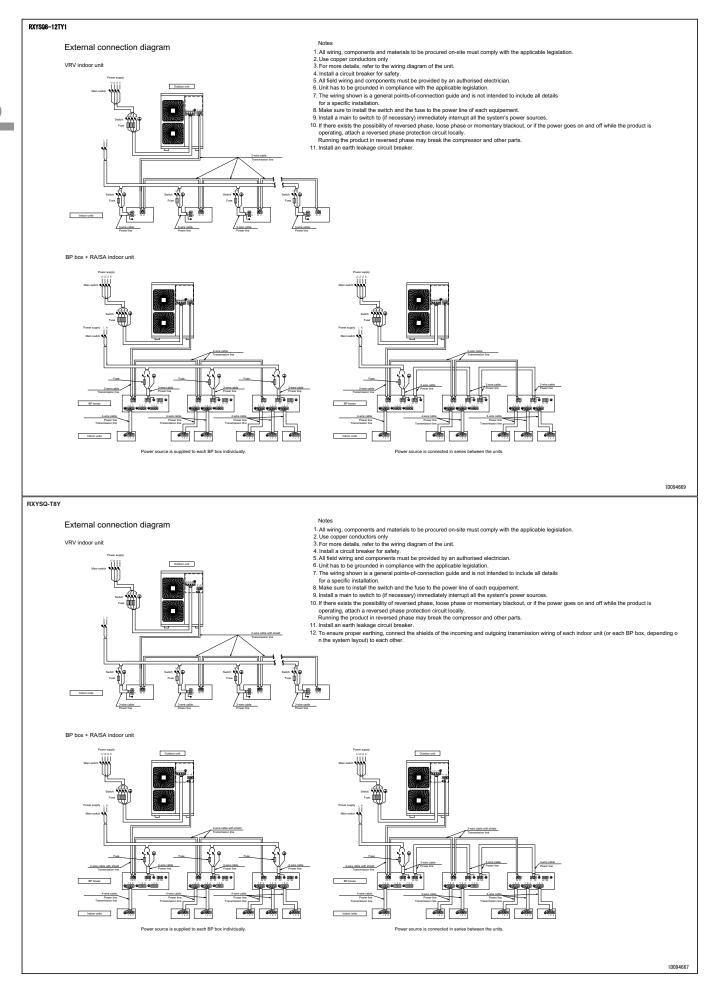


9

Wiring diagrams Wiring Diagrams - Three Phase 9 - 1

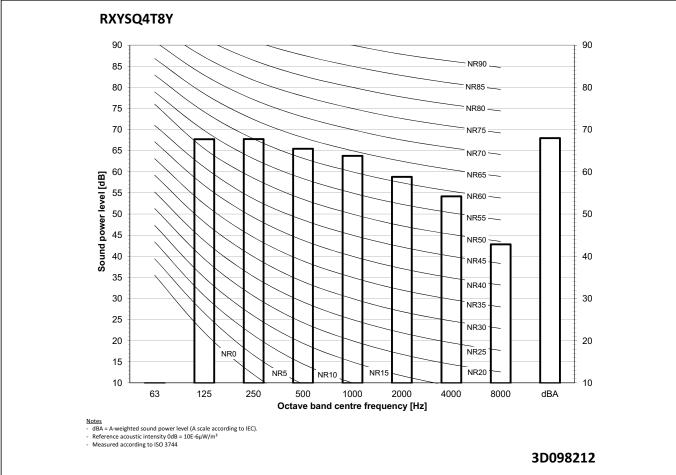


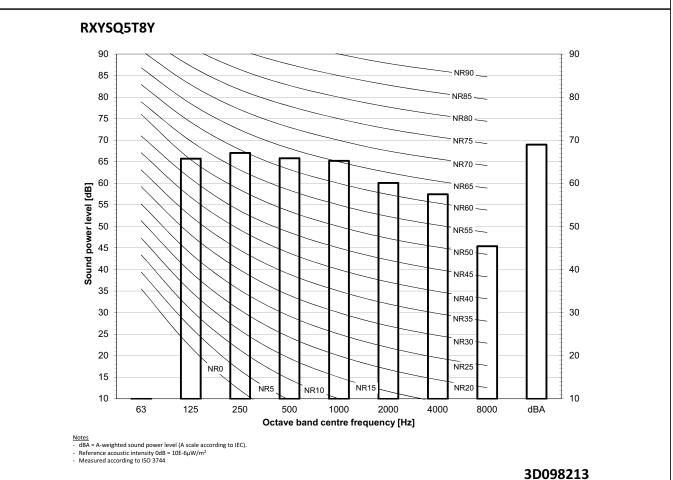
10 - 1 External Connection Diagrams



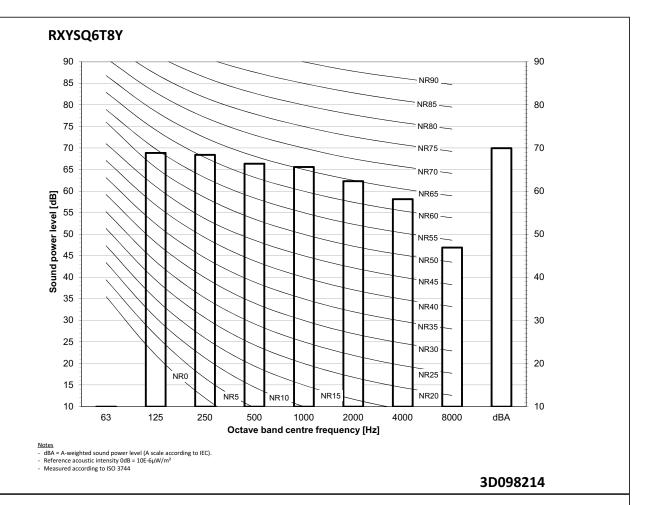
10

11 - 1 Sound Power Spectrum

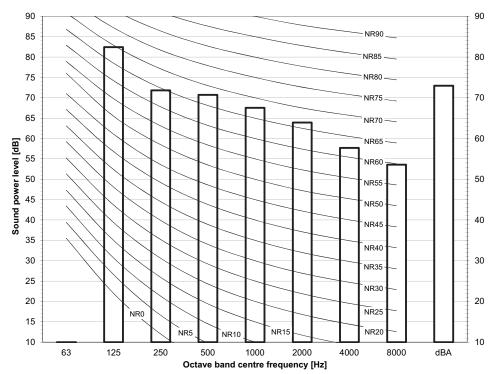






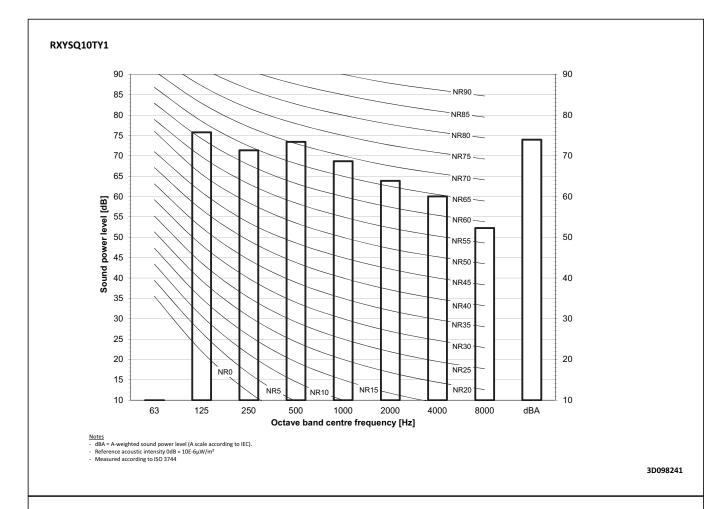


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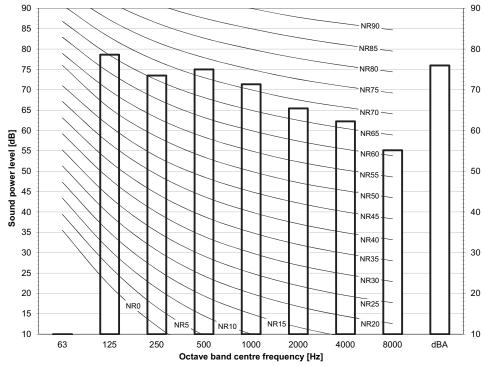


- Notes dBA = A-weighted sound power level (A scale according to IEC). Reference acoustic intensity 0dB = $10E-6\mu W/m^2$ - Measured according to ISO 3744

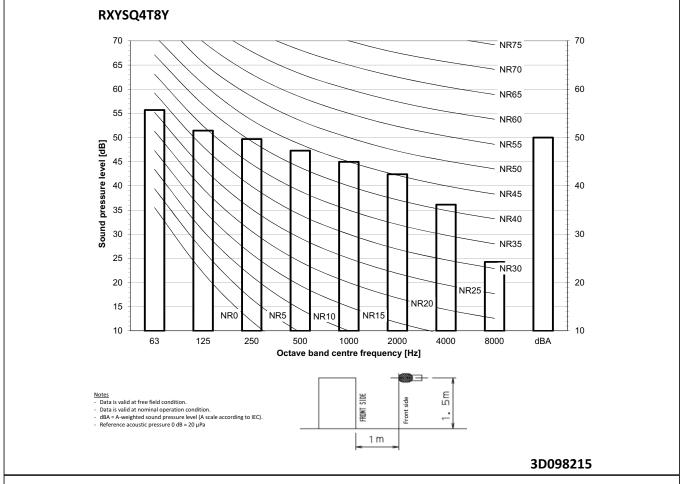
11 - 1 Sound Power Spectrum

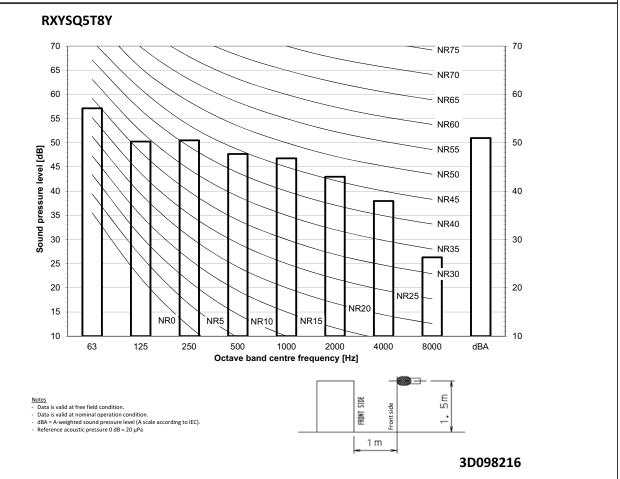




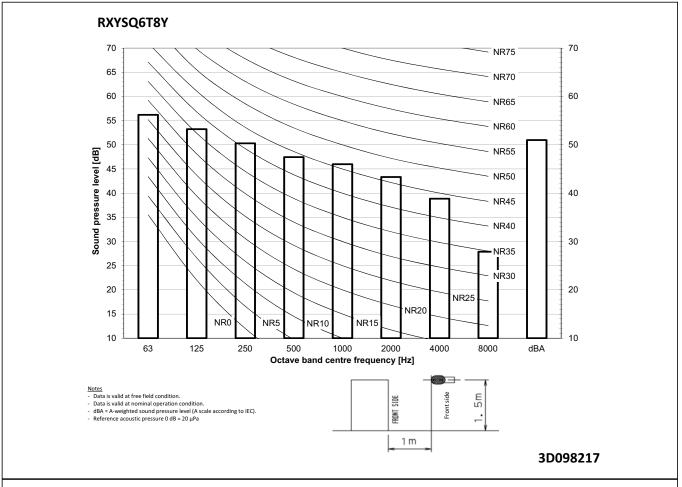


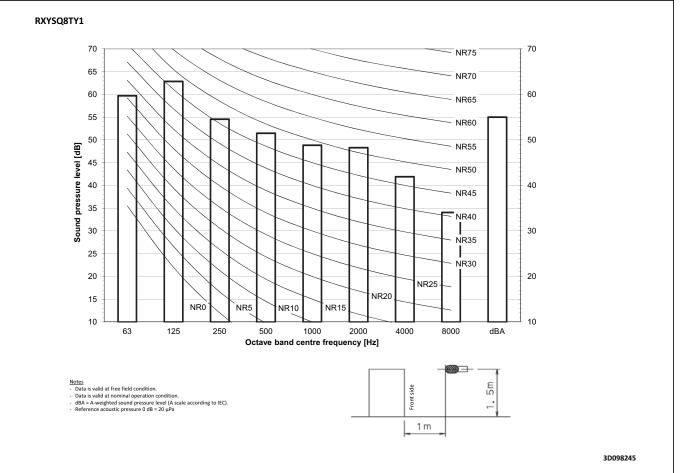
- Notes
 dBA = A-weighted sound power level (A scale according to IEC).
 Reference acoustic intensity 0dB = 10E-6µW/m²
 Measured according to ISO 3744



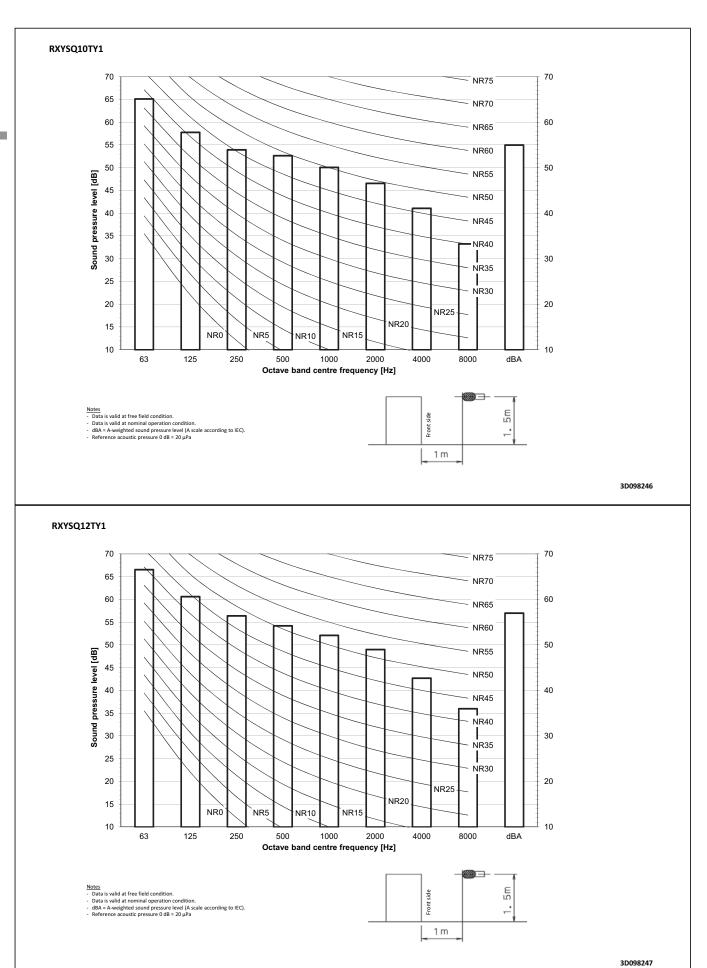


11 - 2 Sound Pressure Spectrum



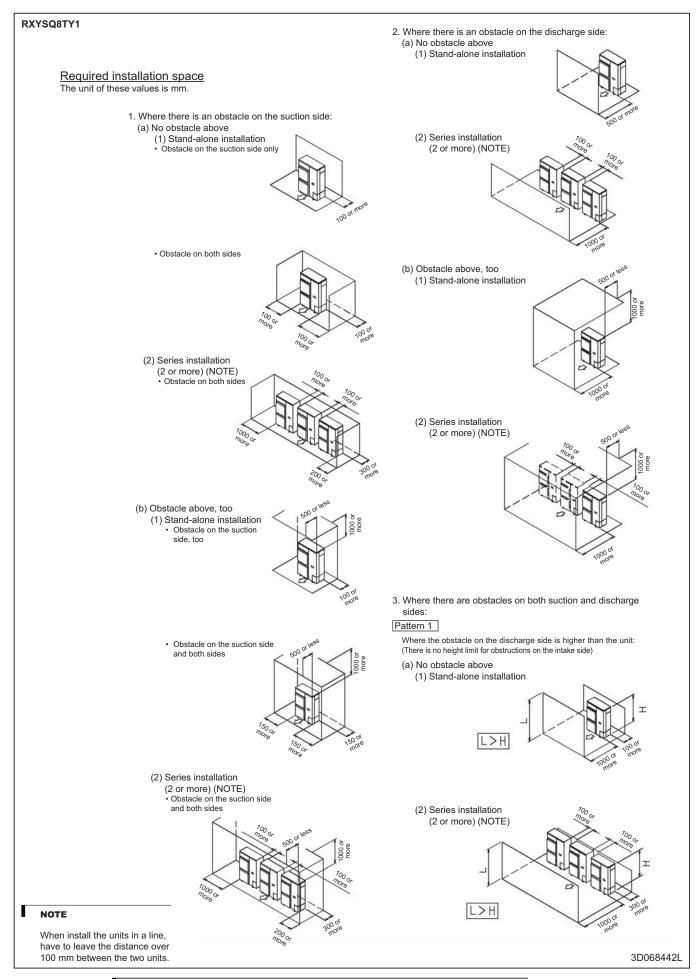


11 - 2 Sound Pressure Spectrum



12 Installation

12 - 1 Installation Method

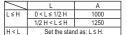


RXYSQ8TY1

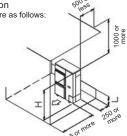
12

(b) Obstacle above, too

(1) Stand-alone installation The relations between H, A and L are as follows:



Close the bottom of the installation frame to prevent the discharged air from being bypassed.



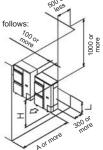
(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows

/	L	A	
L≤H	0 < L ≤ 1/2 H	1000	
	1/2 H < L ≤ H	1250	
H < L	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

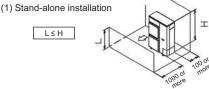


Pattern 2

Where the obstacle on the discharge side is lower than

(There is no height limit for obstructions on the intake side)

(a) No obstacle above



(2) Series installation (2 or more) (NOTE)

elations between H, A and L are as follows

rne relations	between H, P	and Lare as follows:
L	A	
0 < L ≤ 1/2 H	250	70
1/2 H < L ≤ H	300	nore
		~
		700 or
		more or
		AUN' MA
		/ DYUMX
		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		of More
		1500 or mon
		13,016

(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

1110 10	idilono botwo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	are as it	JIIOVVO.		
	L	A	1			
L≤H	0 < L ≤ 1/2 H	100		201		
	1/2 H < L ≤ H	200	/	500 or	1	1 ⊨
H < L	Set the stand	d as: L≤H.		(0)		1000 or more
frame t air fron	he bottom of the prevent the done being bypasse istance exceed.), then it's no north.	ischarged ed. s the figure			00 00 00 00 00 00 00 00 00 00 00 00 00	T or hore

(2) Series installation (NOTE)

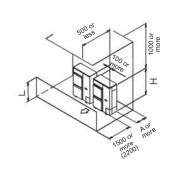
The relations between H, A and L are as follows:

	L	A	
L≤H	0 < L ≤ 1/2 H	250	
	1/2 H < L ≤ H	300	
H <l< th=""><th colspan="3">Set the stand as: L ≤ H.</th></l<>	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

If the distance exceeds the figure in the (), then it's no need to set the stand.



4. Double-decker installation

(a) Obstacle on the discharge side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being

Do not stack more than two units.

Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

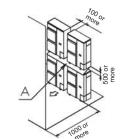
Leave the enough space between the layer one and the board.

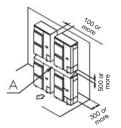
(b) Obstacle on the suction side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two units.

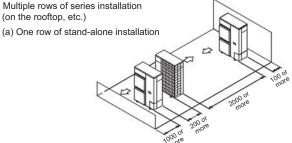
Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

Leave the enough space between the layer one and the board.



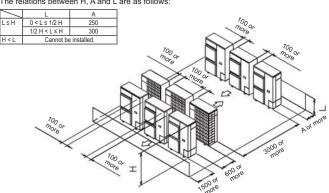


5. Multiple rows of series installation (on the rooftop, etc.)



(b) Rows of series installation (2 or more)

The relations between H, A and L are as follows:



When install the units in a line, have to leave the distance over 100 mm between the two units.

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12 Installation

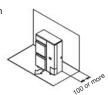
12 - 1 Installation Method

RXYSQ10-12TY1

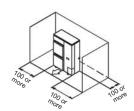
Required installation space The unit of these values is mm.

- 1. Where there is an obstacle on the suction side:
 - (a) No obstacle above
 - (1) Stand-alone installation
 Obstacle on the suction

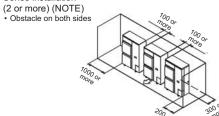
side only



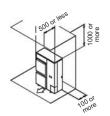
· Obstacle on both sides



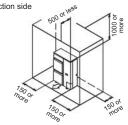
(2) Series installation



- (b) Obstacle above, too
 - (1) Stand-alone installation
 - Obstacle on the suction side, too

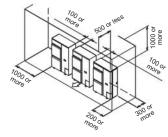


· Obstacle on the suction side and both sides



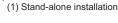
(2) Series installation

(2 or more) (NOTE) Obstacle on the suction side and both sides



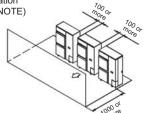
2. Where there is an obstacle on the discharge side:

(a) No obstacle above



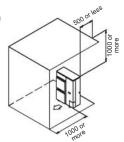


(2) Series installation (2 or more) (NOTE)

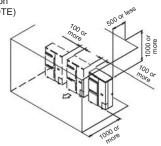


(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installation (2 or more) (NOTE)

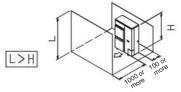


3. Where there are obstacles on both suction and discharge

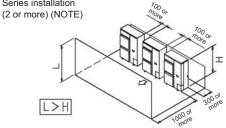
Pattern 1

Where the obstacle on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side)

- (a) No obstacle above
 - (1) Stand-alone installation



(2) Series installation



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NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

RXYSQ10-12TY1

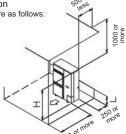
12

(b) Obstacle above, too

(1) Stand-alone installation The relations between H, A and L are as follows:

	L	A	
L≤H	0 < L ≤ 1/2 H	1000	
	1/2 H < L ≤ H	1250	
H < L	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



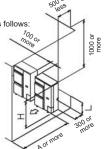
(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows

	L	A	
L≤H	0 < L ≤ 1/2 H	1000	
	1/2 H < L ≤ H	1250	
H < L	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series

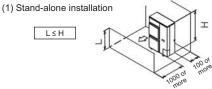


Pattern 2

Where the obstacle on the discharge side is lower than

(There is no height limit for obstructions on the intake side)

(a) No obstacle above



(2) Series installation (2 or more) (NOTE)

The relations	between H, A	and L are as follows:
L	A	
0 < L ≤ 1/2 H	250	70
1/2 H < L ≤ H	300	nore nore
	ا	Too or the state of the state o

(b) Obstacle above, too

(1) Stand-alone installation

ons between H, A and L are as follows

THE IE	ialions betwe	en n, A and L	are as ioliows.
	L	Α	1
L≤H	0 < L ≤ 1/2 H	100	500 01
	1/2 H < L ≤ H	200	50 less 1 5
H < L	Set the stan	d as: L≤H.	1000 or 1000 o
frame t air fron	the bottom of the prevent the concept being bypass istance exceed), then it's no rand.	lischarged ed. Is the figure	T T T T T T T T T T T T T T T T T T T

(2) Series installation (NOTE)

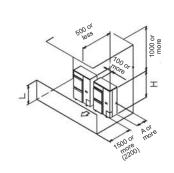
The relations between H, A and L are as follows:

	L	A	
L≤H	0 < L ≤ 1/2 H	250	
	1/2 H < L ≤ H	300	
H <l< th=""><th colspan="3">Set the stand as: L ≤ H.</th></l<>	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed

Only two units can be installed for this series.

If the distance exceeds the figure in the (), then it's no need to set the stand.



4. Double-decker installation

(a) Obstacle on the discharge side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being

Do not stack more than two units.

Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

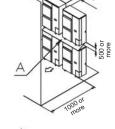
Leave the enough space between the layer one and the board.

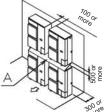
(b) Obstacle on the suction side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two units.

Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

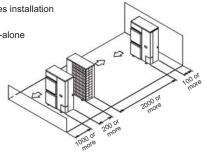
Leave the enough space between the layer one and the board.





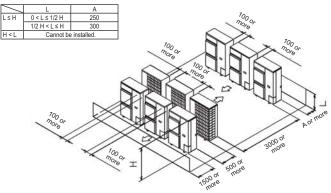
5. Multiple rows of series installation (on the rooftop, etc.)

(a) One row of stand-alone installation



(b) Rows of series installation (2 or more)

The relations between H, A and L are as follows:

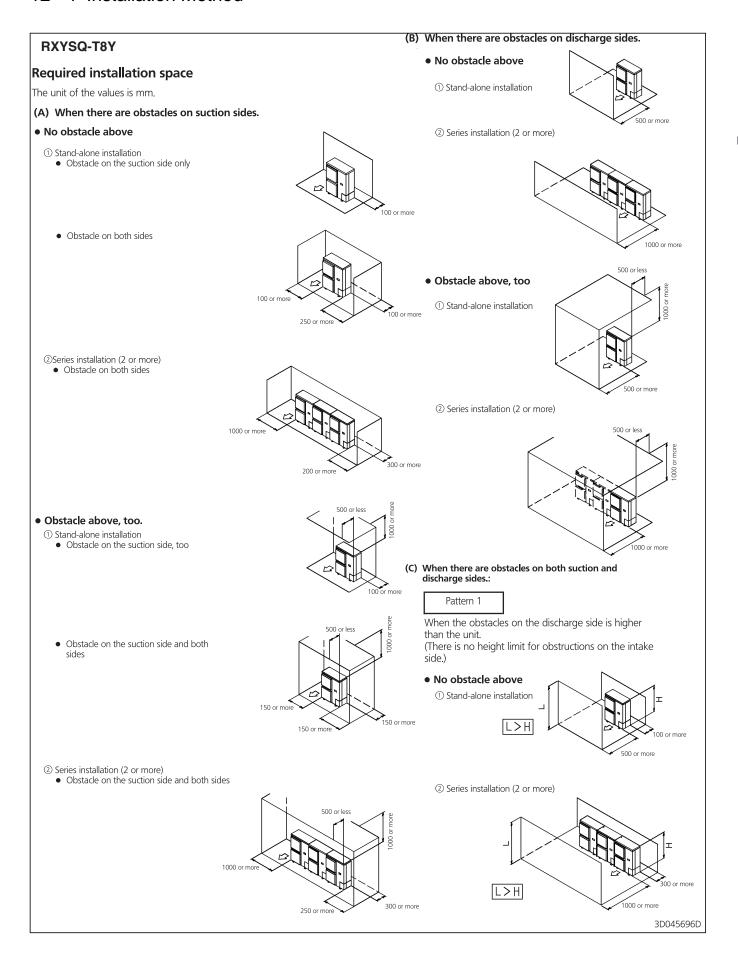


When install the units in a line, have to leave the distance over 100 mm between the two units.

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12 Installation

12 - 1 Installation Method



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Installation

12 - 1 Installation Method

RXYSQ-T8Y

Obstacle above, too

① Stand-alone installation

The relations between H, A and L are

	L	A	
L≦H	0 < L ≦ 1/2 H	750	
	1/2 H < L ≦ H	1000	
H < L	Set the stand as : L ≦ H		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

② Series installation (2 or more)

The relations between H, A and L are as follows.

		L	A	
	L≦H	0 < L ≦ 1/2 H	1000	
		1/2 H < L ≦ H	1250	
	H <l< th=""><th colspan="3">Set the stand as : L ≦ H</th></l<>	Set the stand as : L ≦ H		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this



When the obstacle on the discharge side is lower than the unit:

(There is no height limit for obstructions on the intake side.)

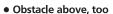
No obstacle above

① Stand-alone installation



The relations between H. A. and L are as follows.

L	A
0 < L ≦ 1/2 H	250
1/2 H < L ≦ H	300

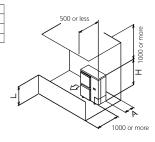


① Stand-alone installation

The relations between H, A and L are as follows.

	L	A	
L≦H	0 < L ≦ 1/2 H	100	
	1/2 H < L ≦ H	200	
H <l< th=""><th colspan="3">Set the stand as : L ≦ H</th></l<>	Set the stand as : L ≦ H		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



2 Series installation

The relations between H, A and L are as

500 or le

	L	A	
I≤H	0 < L ≦ 1/2 H	250	
L an	1/2 H < L ≦ H	300	
H <l< th=""><th colspan="3">Set the stand as : L ≦ H</th></l<>	Set the stand as : L ≦ H		

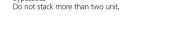
Close the bottom of the installation frame to prevent the discharged air from being bypassed.

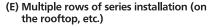
Only two units can be installed for this series.

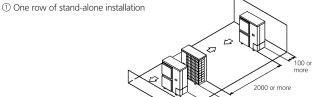
(D) Double-decker installation

Obstacle on the discharge side.
 Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
 Do not stack more than two unit.

② Obstacle on the suction side. Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.



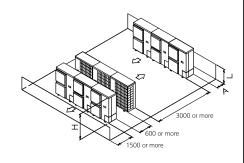




② Rows of series installation (2 or more)

The relations between H. A and L are as follows.

	L	A	
L≦H	0 < L ≦ 1/2 H	250	
Lan	1/2 H < L ≦ H	300	
H <l< th=""><th colspan="3">Can not be installed</th></l<>	Can not be installed		



200 or more

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12 Installation

12 - 2 Refrigerant Pipe Selection

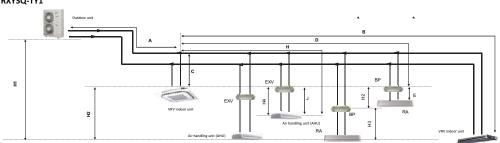
RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

For the reference drawing, see page -2/3		Maximum p	iping length	Maximum height difference		
		Longest pipe	After first branch	Indoor-to-outdoor	Indoor-to-indoor	
		(A+[B,D+E,H])	(B,D+E,H)	(H1)	(H2)	Total piping length
		Actual / (Equivalent)	Actual	Outdoor above indoor / (indoor above outdoor)		
				(indoor above outdoor)		
Standard	RXYSCQ4~5TMV1B	70/(90)m	40m	30/(30)m	15m	300m
·VRV DX· indoor units only	RXYSQ4~6T7(V/Y)1B	120/(150)m	40m	50/(40)m	15m	300m
•	RXYSQ8TMY1B	100/(130)m	40m	50/(40)m	15m	300m
	RXYSQ10~12TMY1B	120/(150)m	40m	50/(40)m	15m	300m
	RXYSCQ4~5TMV1B	35/(45)m	40m	30/(30)m	15m	140m
-RA- connection	RXYSQ4~6T7(V/Y)1B	65/(85)m	40m	30/(30)m	15m	140m
-RA- connection	RXYSQ8TMY1B	80/(100)m	40m	30/(30)m	15m	140m
	RXYSQ10~12TMY1B	80/(100)m	40m	30/(30)m	15m	140m
	Pair	50/(55)m (1)	-	40/(40)m	-	·
Air handling unit (-AHU-) connection	Multi (2)	50/(55)m (1)	40m	40/(40)m	15m	300m
connection	Mix (3)	50/(55)m ⁽¹⁾	40m	40/(40)m	15m	300m

- Notes
 1. The allowable minimum length is -5- m.
 2. Multiple air handling units (AHU-)(-EKEXV-+-EKEQ- kits).
 3. Mix of air handling units (-AHU-) and -VRV DX- indoor units.

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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 -30097983 for details about the allowed combinations.

		ſ	Allowed piping length		Maximum height difference	
		·BP· to ·RA· (E)		·EXV· to ·AHU· (J)	·BP· to ·RA· (H3)	·EXV· to ·AHU· (H4)
·RA· connection		2~15m	-	5m	-	
	Pair		=	≤5m	=	5m
Air handling unit (AHU)	Multi	(1)	=	≤5m	-	5m
Connection	Mix	(2)	-	≤5m	-	5m

12 - 2 Refrigerant Pipe Selection

RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

System pattern	Total		Allowed capacity		
Allowed connection ratio (CR) Other combinations are not allowed.	Capacity	Maximum allowed amount of connectable indoor units (-VRV, RA, AHU-) Excluding -BP- units and including -EXV- kits.	VRV DX indoor unit	-RA DX- indoor unit	Air handling unit (AHU)
		Excidenting by units and incidenting EXV kits.			
·VRV DX· indoor units only	50~130%	Maximum -64-	50~130%	-	-
·RA DX· indoor units only	80~130%	Maximum ·32· (1)	-	80~130%	
·VRV DX· indoor unit + ·AHU· Mix	50~110% (3)	Maximum ·64· (2)	50~110%	-	0~110%
-AHU- only Pair + multi (4)	90~110% (3)	Maximum -64- (2)	-	-	90~110%

- Notes
 1. There is no restriction on the number of connectable -BP- boxes.
 2. EKEXV- kits are also considered indoor units.
 3. Restrictions regarding the air handling unit capacity
 4. Pair AHU = system with 1 air handling unit connected to one outdoor unit
 Multi AHU = system with multiple air handling units connected to one outdoor unit

- About ventilation applications

 I. +XMQ_MF- units are considered air handling units, following air handling unit limitations.

 Maximum connection ratio when combined with -VRV DX indoor units: -CR ≤ 30 %.

 Maximum connection ratio when only air handling units are connected: -CR ≤ 100 %.

 Minimum connection ratio when only -XMQ_MF- units are connected: -CR ≤ 50 %.

 For information on the operation range, refer to the documentation of the -FXMQ_MF- unit.

 III. -Biddle- air curtains are considered air handling units, following air handling unit limitations:

 For information on the operation range, refer to the documentation of the -ERXM_EXEQ- units.

 III. -ERXEV +EXEQ- units combined with an air handling unit are considered air handling units, following air handling unit limitations.

 For information on the operation range, refer to the documentation of the -ERXEV_EXEQ- units.

 IV. VKWM- units are considered to be regular -VRV DX: indoor units.

 For information on the operation range, refer to the documentation of the -VXM- unit.

 V. Because there is no refrigerant connection with the outdoor unit (only communication F1/F2), -VAM- units do not have connection limitations.

 However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units.

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Operation range 13

13 - 1 Operation Range

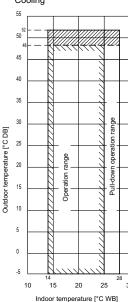
RXYSQ8-12TY1

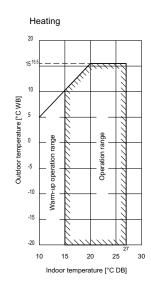
- Notes

 1. 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
- 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. '////;: Unit operation is possible, but no guaranteed capacity
- 6. 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.

Cooling





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RXYSQ-T8Y

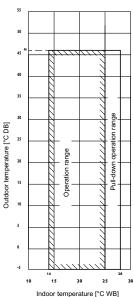
These figures assume the following operation conditions Indoor and outdoor units

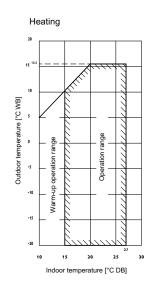
Equivalent piping length: 5m Level difference: 0m

- 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.
- 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.

Cooling

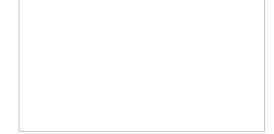




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