

# Air Conditioning Technical Data RXYSQ-T8Y RXYSQ-TY1



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

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## 1 Features

## 1-1 RXYSQ-T8Y

- 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 ...
- 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
- 3 steps in night quiet mode to reduce sound levels at night
- 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 the Daikin Cloud Service: 24/7 monitoring for maximum efficiency, extented lifetime and immediate service support thanks to failure prediction





Inverter

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

## 1 Features

#### 1 - 2 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 the Daikin Cloud Service: 24/7
  monitoring for maximum efficiency, extented lifetime and immediate
  service support thanks to failure prediction





Inverter

2-1 Technical S	pecifications				RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y	RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1
Recommended combin	nations				3 x FXSQ25A2VE B + 1 x FXSQ32A2VE B	4 x FXSQ32A2VE B	2 x FXSQ32A2VE B + 2 x FXSQ40A2VE B	4 x FXMQ50P7VE B	4 x FXMQ63P7VE B	6 x FXMQ50P7VE B
Cooling capacity			kW	12.1 (1)	14.0 (1)	15.5 (1)	22.4 (1)	28.0 (1)	33.5 (1)	
	Nom.	35°C Al	HRI	Btu/h		-		76,400 (2)	95,500 (2)	114,300 (2)
				kW		-		22.4 (2)	28.0 (2)	33.5 (2)
		46°C Al	HRI	Btu/h		-		58,000 (3)	68,200 (3)	81,850 (3)
				kW		-		17.0 (3)	20.0 (3)	24.0 (3)
		48°C Al	HRI	Btu/h		-		51,150 (4)	58,000 (4)	68,200 (4)
				kW		-		15.0 (4)	17.0 (4)	20.0 (4)
Heating capacity	Prated,h			kW	8.0 (5)	9.2 (5)	10.2 (5)	14.9 (5)	19.6 (5)	23.5 (5)
	Max.	6°CWB		kW	14.2 (2)	16.0 (2)	18.0 (2)	25.0 (6)	31.5 (6)	37.5 (6)
Power input - 50Hz	Cooling Nom. 35°C k		kW		-		6.78 (2)	8.54 (2)	10.20 (2)	
		46°C AHRI		kW		-		5.80 (3)	7.02 (3)	8.60 (3)
			48°C AHRI	kW		-		5.34 (4)	6.80 (4)	7.97 (4)
EER at nom. capacity	35°C AHRI			Btu/h		-		11.30 (2)	11.2	0 (2)
·	kW/kW				-		3.30 (2)		3 (2)	
	46°C AHRI			Btu/h		-		10.00 (3)	9.72 (3)	9.52 (3)
				kW/kW	-			2.93 (3)	2.85 (3)	2.79 (3)
	48°C AHRI			Btu/h	-			9.58 (4)	8.53 (4)	8.56 (4)
				kW/kW	-			2.81 (4)	2.50 (4)	2.51 (4)
ESEER - Automatic					7.89	7.49	6.73	6.72	6.41	6.18
ESEER - Standard					6.18	5.77	5.23	5.63	5.02	4.87
SEER					6.8	6.6	6.8	6	.3	6.5
SCOP					3.9	4.2	4.4	4.2	4.1	4.3
ηѕ,с				%	269.2	260.5	268.3	247.3	247.4	256.5
ηs,h				%	154.4	164.5	174.1	165.8	162.4	169.6
Space cooling	A Condition (35°C -	EERd		1	3.1		2.6	l	2.8	2.7
	27/19)	Pdc		kW	12.1	14.0	15.5	22.4	28.0	33.5
	B Condition (30°C -	EERd		•	5.2	4	.8	4.2	4	.3
	27/19)	Pdc		kW	8.9	10.3	11.4	16.5	20.6	24.7
	C Condition (25°C -	EERd		•	9.3	8.9	9.1	7	.7	7.9
	27/19)	Pdc		kW	5.7	6.6	7.3	10.6	13.3	15.9
	D Condition (20°C -	EERd		•	13.0	14.2	15.1	13.7	12.2	13.6
	27/19)	Pdc		kW	4.3	4.5	4.6	6.4	7.1	7.3

2-1 Technical S	-			RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y	RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1
Space heating	TBivalent	COPd (declared C			.4	2.5	2.4	2	
(Average climate)		Pdh (declared heating cap)	kW	8.0	9.2	10.2	14.9	19.6	23.5
		Tbiv (bivalent cemperature) °C			-10				
	TOL	COPd (declared C	OP)	2	.4	2.5	2.4	2	.2
		Pdh (declared heating cap)	kW	8.0	9.2	10.2	14.9	19.6	23.5
		Tol (temperature	°C				10		
	A Condition ( 780)	operating limit) COPd (declared C	OD)	0.7	2.0	2.0	0.0	1 0	4
	A Condition (-7°C)	,		2.7	2.8	2.9	2.6	2	
		Pdh (declared heating cap)	kW	7.0	8.1	9.0	13.2	17.4	20.8
	B Condition (2°C)	COPd (declared C	OP)	3.6	3.8	4	.0	4.1	4.3
		Pdh (declared heating cap)	kW	4.3	5.0	5.5	8.0	10.6	12.7
	C Condition (7°C)	COPd (declared C	OP)	5.7	6.1	6.5	5	5.9	6.3
		Pdh (declared heating cap)	kW	3.4	3.5	3.6	5.0	6.8	8.1
	D Condition (12°C)	COPd (declared C	OP)	7.0	7.6	8.1	7.8	6.3	6.7
		Pdh (declared heating cap)	kW		.1	4.3	5.8	6.4	6.6
Capacity range			HP	4	5	6	8	10	12
	onnectable indoor units	 S	1	<u> </u>	64 (3)			64 (7)	
Indoor index	Min.	-		50.0	62.5	70.0	100.0	125.0	150.0
connection	Max.			130.0	162.5	182.0	260.0	325.0	390.0
Dimensions	+		mm	100.0	1,345 1,430		1,615		
Simonolorio	- Crim	Width	mm	900 940					
	Depth mm					20		1 46	 30
	Packed unit Height mm  Width mm		1	1,524				'45	
				980			1,615 1,030		15
		Depth	mm	420			1,000	57	
Weight	Unit	Ворит	kg	104			144	175	180
vvoignt	Packed unit		kg	114			158	191	196
Packing	Material		I N9				rton		100
doking	Weight		kg	3.9 5.6 8.2 Wood 5.6 5.5 8.8					8.2
Packing 2	Material		1.9						· <b>-</b>
doking 2	Weight		kg						8
Packing 3	Material		l va	+	0.0	Pla	stic		
doking o	Weight		kg	+	0.5	1 10	0.3	0	4
Capacity control	Method		שיי ן		0.0	Inverter	controlled		• •
Casing	Colour						White		
	Material						ized steel plate		
Heat exchanger	Туре						fin coil		
at oxonungoi	Indoor side						ir		
	Outdoor side			+			ir		
	Air flow rate	Cooling Rated Heating Rated	m³/h m³/h		6,360 (5)		8,400 (5) 8,400 (5)	10,92	
Compressor	Quantity	Heating Rated	111 /11		6,360 (5)		0,400 (5) 1	10,92	-0 (0)
2011 PLE990	Type			Harmatica	lly sealed swing of		· 	ally sealed scroll c	nmnressor
	Crankcase heater		W	Tiermedca	ily scalcu swilly (			ally Scalcu Scioli C	ompressor
Fan			VV	33 2					
	Quantity			+			2		
an motor	Quantity			1					
	Type		14/	DC motor					
Daniel activities	Output	None	W	00.0 (4)	70	70.0 (4)	70.0 (0)	200	70.0 (0)
Sound power level	Cooling	Nom.	dBA	68.0 (4)	69.0 (4)	70.0 (4)	73.0 (8)	74.0 (8)	76.0 (8)
Sound pressure level	Cooling	Nom.	dBA	50.0 (6)		0 (6)	55.	0 (9)	57.0 (9)
Operation range	Cooling	Min.~Max.	°CDB	1	-5.0~46.0			-5.0~52.0	
	Heating	Min.~Max.	°CWB	1		-20.0	~15.5		

2-1 Technical S	pecifications				RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y	RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1
Refrigerant	Туре						R-4	10A		
	GWP				2,087.5					
	Charge			TCO <sub>2</sub> eq		7.5		11.5	14.6	16.7
	kg				3.6		5.5	7.0	8.0	
Refrigerant oil	Туре				Synth	etic (ether) oil FV	/C50K	Synth	etic (ether) oil FV	C68D
Piping connections	Liquid	Туре				Flare connection	l		Braze connection	
		OD		mm			9,52	•		12,7
	Gas	Туре			Flare co	nnection		Braze co	nnection	
		OD		mm	15	5.9	19	9.1	22.2	25.4
	Total piping length System Actual m 300 (7)				300 (10)					
Defrost method				Reversed cycle						
Safety devices	Item	01			High pressure switch					
		02			Fan driver overload protector					
		03			Inverter overload protector					
		04			PC board fuse					
PED	Category			Category I			Category II			
	Most critical part	Name		Compressor			Accumulator			
		Ps*V		Bar*I		167		202 279		79
Cooling	Cdc (Degradation co	oling)					0.	25		
Heating	Cdh (Degradation he	eating)					0.	25		
Power consumption in	Off mode	Cooling	POFF	kW		0.039		0.035	0.0	146
other than active		Heating	POFF	kW		0.049		0.040	0.0	146
mode	Standby mode	Cooling	PSB	kW		0.039		0.035	0.0	146
		Heating	PSB	kW		0.049		0.040	0.046	
	Thermostat-off	Cooling	PTO	kW	0.000		0.015	0.013		
	mode	Heating	PTO	kW	0.049			0.055	0.0	)59
Indication if the heater	is equipped with a sup	<del></del>			no					
Supplementary heater	Back-up capacity	Heating	elbu	kW			0	.0		

Standard Accessories : Installation manual; Quantity : 1; Standard Accessories : Operation manual; Quantity : 1; Standard Accessories : Connection pipes; Quantity : 1;

2-2 Electrical S	pecifications			RXYSQ4T8Y	RXYSQ5T8Y	RXYSQ6T8Y	RXYSQ8TY1	RXYSQ10TY1	RXYSQ12TY1
Power supply	Name			Y1					
	Phase	Phase				31	N~		
	Frequency Hz					5	50		
	Voltage		V			380	-415		
Voltage range	Min.		%				10		
	Max. %					1	10		
Current	Nominal running current (RLA) - 50Hz	Cooling	А	4.44 (8)	5.55 (8)	6.84 (8)	9.6 (11)	10.7 (11)	13.4 (11)
Current - 50Hz	Starting current (MSC) - remark			(9)			(12)		
	Zmax	List		No requirements					
	Minimum circuit amp	Minimum circuit amps (MCA)		14.1 (10)			18.5 (13)	22.0 (13)	24.0 (13)
	Maximum fuse amps (MFA) A		А	16 (11)			25 (14) 32 (14)		32 (14)
	Total overcurrent am	ps (TOCA)	А	14.1 (12)			16.5 (15)	25.0 (15)	27.0 (15)
	Full load amps (FLA)	Total	A	0.6 (16)			1.4 (17)		
Wiring connections -	For power supply	Quantity		5G					
50Hz	For connection with	Quantity		2					
	indoor Remark			F1,F2					
Power supply intake	•	•				Both indoor a	nd outdoor unit		

#### Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m
- (3) 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) 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
- (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. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.
- (10) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.
- (11) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).
- (12) TOCA means the total value of each OC set.
- (13) The automatic ESEER value corresponds with normal VRV IV-S heat pump operation, including the advanced energy saving functionality (variable refrigerant temperature control).
- (14) The standard ESEER value corresponds with normal VRV IV-S heat pump operation, not taking into account the advanced energy saving functionality.
- (15) Sound values are measured in a semi-anechoic room.
- (16) FLA means the nominal running current of the fan
- (17) Maximum allowable voltage range variation between phases is 2%.

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

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

EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and  $\leq$  75A per phase

Ssc: Short-circuit power

Cooling: T1: indoor temp. 26,7°CDB, 19,4°CWB, outdoor temp. 35°CB, AHRI 1230:2010, power input indoor units (duct type) included

Cooling: T3: indoor temp. 29,0°CDB, 19,0°CWB, outdoor temp. 46°CB, ISO15042:2011, power input indoor units (duct type) included

Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CB, AHRI 1230:2010, power input indoor units (duct type) included

# **3** Options 3 - 1 Options

**RXYSQ-T8Y** RXYSQ-TY1

3

Nr.	ltem	RXYSCQ4~5TMV1B	RXYSQ4~6T7V1B RXYSQ4~6T8VB	RXYSQ4~6T7Y1B RXYSQ4~6T8YB	RXYSQ8~12TMY1B	RXYSQ6T7Y1B9 RXYSQ6T8Y1B9			
	Refnet header	KHRQ22M29H							
	iverifier fleader	-	-	-	KHRQ22M64H	-			
				KHRQ22M20T					
II.	Refnet joint	-	ī	-	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		BPMK:	S967A3		-			

- Notes

  1. All options are kits

  2. To mount option 1a, option 1b is required.

  3. For RXYSQ4~617V1B
  For RXYSQ4~617V1B
  To operate the cool/heat selector function, options 1a and 1c are both required.

  4. For RXYSQ4~617V1B
  For RXYSQ4~617V1B
  To operate the cool/heat selector function, options 1a and 1d are both required.

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## 4 Combination table

## 4 - 1 Combination Table

RXYSQ-T8Y RXYSQ-TY1

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

	Configura	ation	Indoor unit type
	Wall-mounted	Emura	FTXJ20M (W/S)
			FTXJ25M (W/S)
			FTXJ35M (W/S)
			FTXJ50M (W/S)
		FTXM	FTXM20M
			FTXM25M
			FTXM35M
			FTXM42M
			FTXM50M
			FTXM60M
ıΞ			FTXM71M
<u> </u>		CTXM	CTXM15M
ō	ក្ខ Floor-standing	Flex	FLXS25B
RA indoor unit			FLXS35B
.= -	Ceiling-mounted		FLXS50B
2			FLXS60B
	Floor-standing	FVXM	FVXM25F
	_		FVXM35F
			FVXM50F
		Nexura	FVXG25K
			FVXG35K
			FVXG50K
	Duct	FDXM	FDXM25F
			FDXM30F
I			FDXM50F
			FDXM60F

	Configurati	on	Indoor unit type
	Cassette	Fully Flat 2x2	FFA25A
	cassette	runy riat zxz	FFA35A
			FFA50A
			FFA60A
		Roundflow 3x3	FCAG35A
		,	FCAG50A
			FCAG60A
Ħ			FCAG71A
indoor unit	Ceiling-suspended	FHA35A	
ō			FHA50A
ဓ		FHA60A	
⊇.		FHA71A	
SA	Duct		FBA35A
٠,			FBA50A
			FBA60A
			FBA71A
	Floor-standing	FNA	FNA25A
	1		FNA35A
			FNA50A
			FNA60A

#### Remark

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.

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## 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



# 5 Capacity tables

## 5 - 2 Integrated Heating Capacity Correction Factor

#### RXYSQ-T8Y RXYSQ-TY1

#### MINI VRV

#### 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:

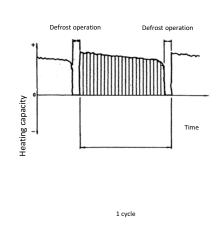
#### Formula

- 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

mict all temperature of fleat exchanger							
[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
RXYSCQ4TMV1B RXYSCQ5TMV1B RXYSQ5T7V1B RXYSQ5T7V1B RXYSQ5T7V1B RXYSQ5T7V1B RXYSQ5T7V1B RXYSQ5T7V1B RXYSQ5T7V1B RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB RXYSQ5T8VB	0,88	0,86	0,80	0,75	0,76	0,82	1,00
RXYSQ8TMY1B	0,95	0,93	0,88	0,84	0,85	0,90	1,00
RXYSQ10TMY1B RXYSQ6TMYFK	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



#### 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.

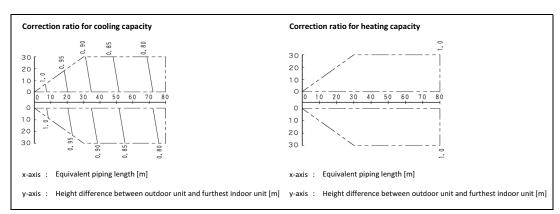
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## 5 Capacity tables

## 5 - 3 Capacity Correction Factor

#### RXYSQ-T8Y RXYSQ-TY1

5



#### 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 it 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.

#### Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units

Capacity of outdoor units from capacity table at 100% connection ratio.

Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%

Maximum capacity of outdoor units

Capacity of outdoor units from capacity table at installed connection ratio.

Correction ratio of piping to furthest indoor unit

4. When the overall equivalent piping length is 90 m or more, the diameter of the main gas pipes (outdoor unit - branch sections) 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
RXYSCQ4TMV1B	9.5	Not increased	15.9	19,1
RXYSCQ5TMV1B	3,3	Not ilici eased	13,5	15,1

5. Overall equivalent length

Overall equivalent length

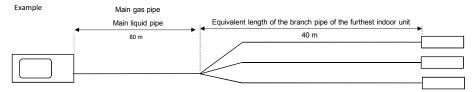
Equivalent length of the main pipe

Correction factor

Equivalent length of the branch pipes

Choose the correction factor from the following table. When calculating the cooling capacity: gas pipe size When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1,0	0,5
Heating (liquid pipe)	1,0	0,5



#### Overall equivalent length

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

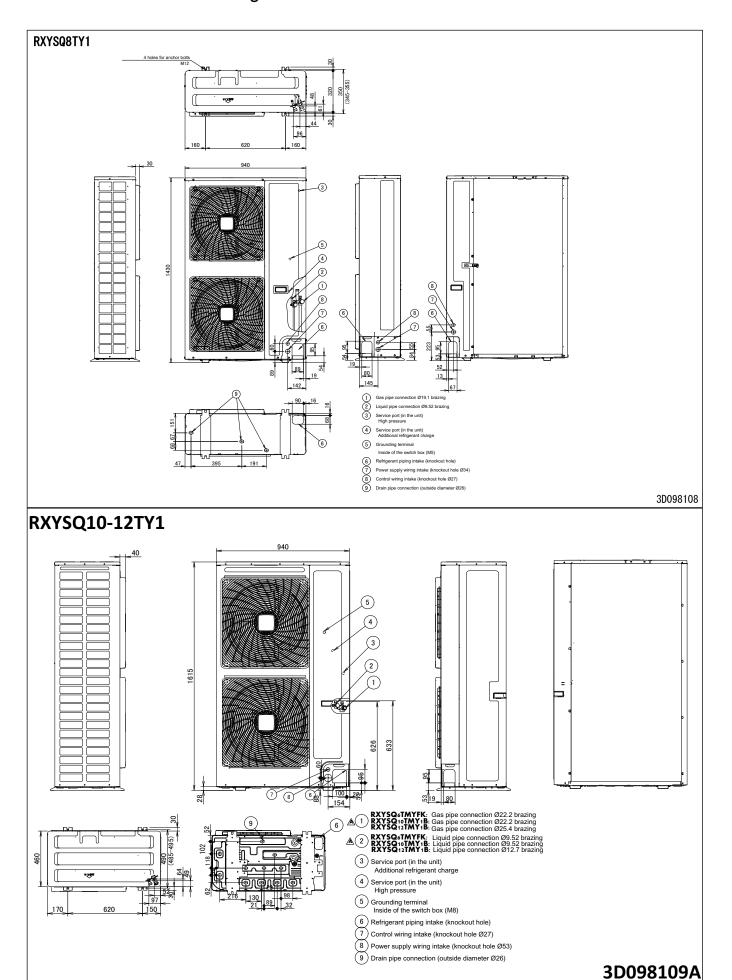
#### Capacity correction ratio (height difference = 0)

Cooling mode = 0,78Heating mode = 1,0

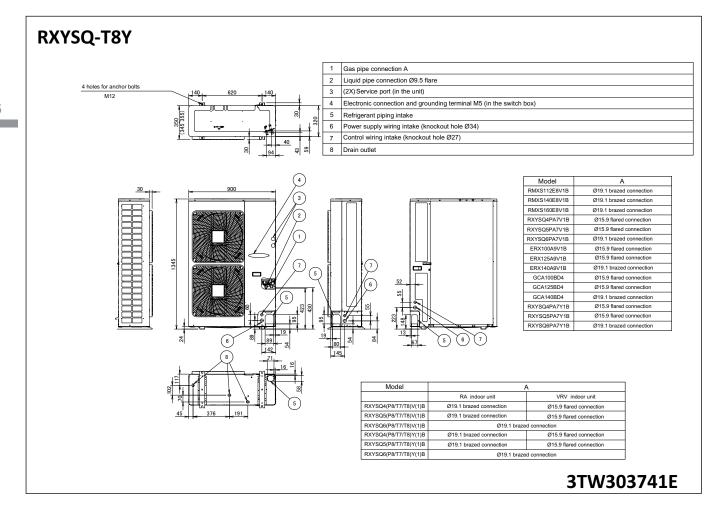
3D094660B

# 6 Dimensional drawings

## 6 - 1 Dimensional Drawings



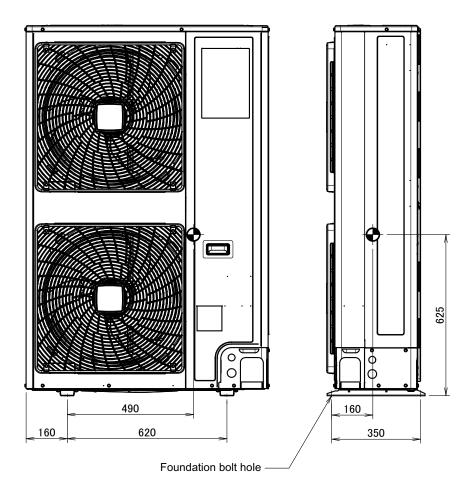
## 6 - 1 Dimensional Drawings



6

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

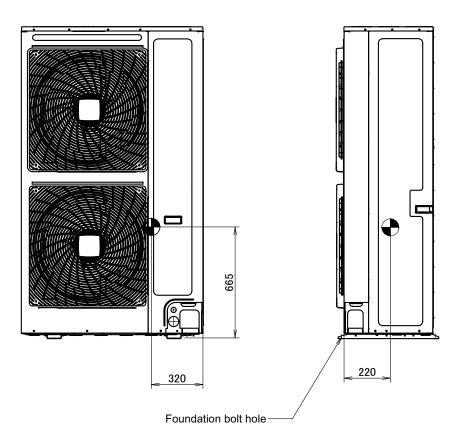
# RXYSQ8TY1



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

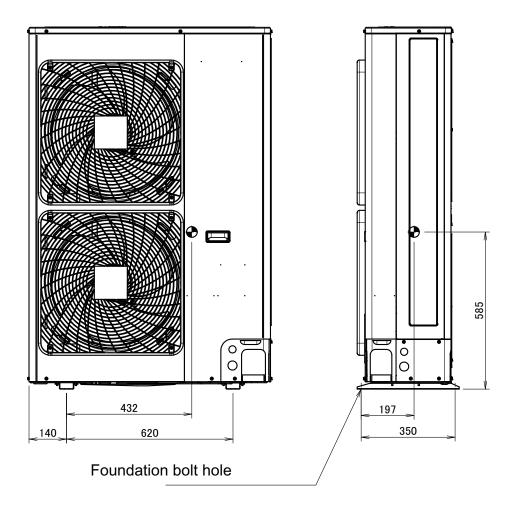
RXYSQ10-12TY1

7

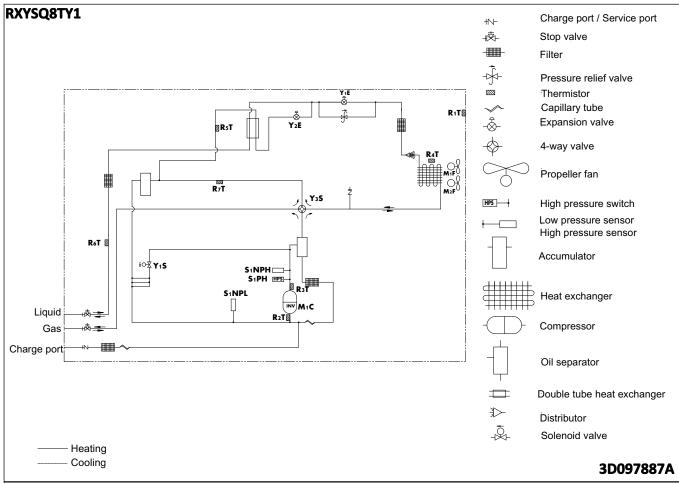


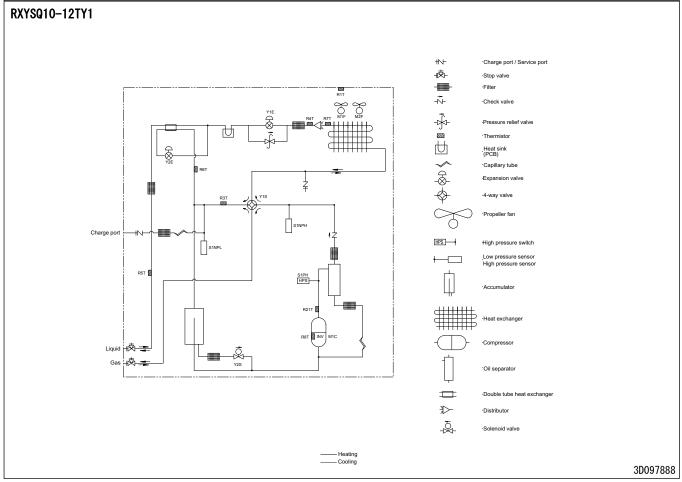
## Centre of gravity Centre of Gravity **7** 7 - 1

# **RXYSQ-T8Y**



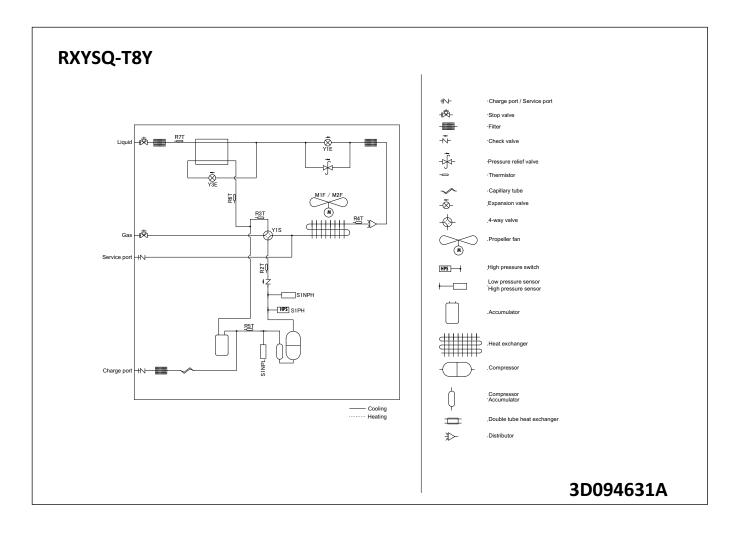
## 8 - 1



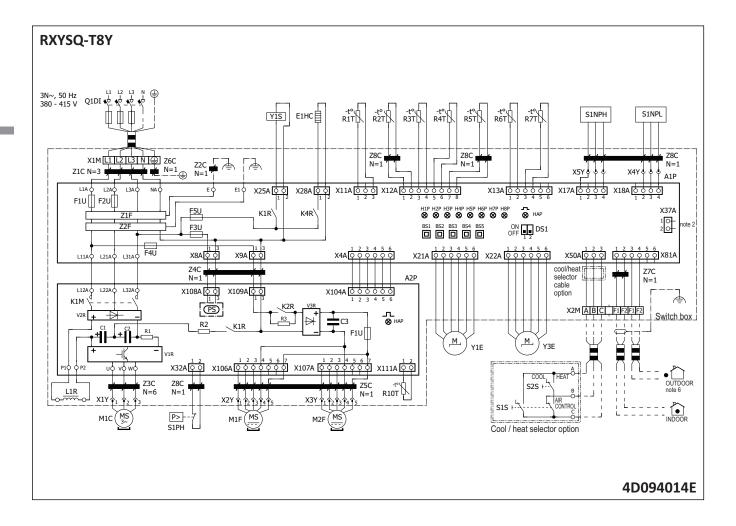


## **Piping diagrams**Piping Diagrams 8

# 8 - 1

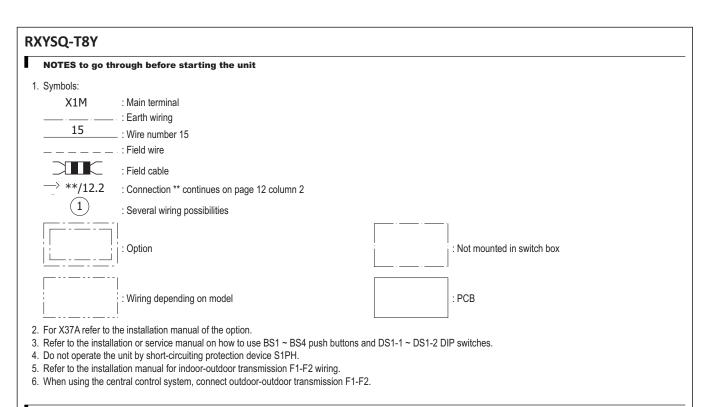


## Wiring diagrams Wiring Diagrams - Single Phase 9 - 1

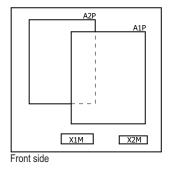


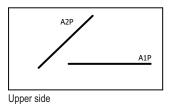
# 9 Wiring diagrams

## 9 - 1 Wiring Diagrams - Single Phase



#### POSITION IN SWITCH BOX



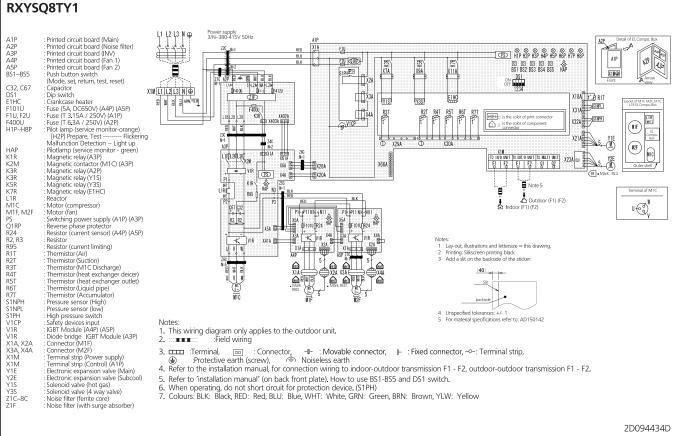


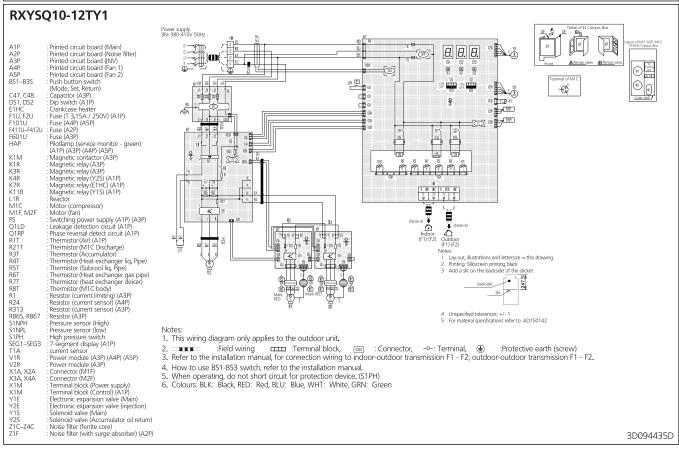
#### LEGEND

Part n°	Т	Description	Part n°		Description
A1P	T	main PCB	R3T	T	thermistor (suction1)
A2P		inverter PCB	R4T		thermistor (heat exchanger)
BS* (A1P)		push buttons (mode, set, return, test ,reset)	R5T	T	thermistor (suction 2)
C* (A2P)		capacitors	R6T		thermistor (subcool heat ex)
DS1 (A1P)		dipswitch	R7T		thermistor (liquid)
E1HC		crankcase heater	R10T		thermistor (fin)
F1U (A1P)		fuse T 31,5 A 500 V	S1NPH		high pressure sensor
F2U (A1P)		fuse T 31,5 A 500 V	S1NPL		low pressure sensor
F1U (A2P)		fuse T 5 A 250 V	S1PH		high pressure switch
F3U (A1P)		fuse T 6.3 A 250 V	S1S	*	air control switch
F4U (A1P)		fuse T 6.3 A 250 V	S2S	*	cool / heat switch
F5U (A1P)		fuse T 6.3 A 250 V	V1R (A2P)		IGBT power module
HAP (A*P)		running LED (service monitor-green)	V2R (A2P)		diode module
H*P (A1P)		LED (service monitor-orange)	V3R (A2P)		diode module
K1M (A2P)		magnetic contactor	X37A		connector (power supply for option PCB)
K4R (A1P)		magnetic relay (E1HC)	X*A		PCB connector
K*R (A*P)		magnetic relay	X*M		terminal strip
L1R		reactor	X*Y		connector
M1C		motor (compressor)	Y1E		electronic expansion valve (main)
M1F		fan motor (upper)	Y3E		electronic expansion valve (subcool)
M2F		fan motor (lower)	Y1S		solenoïd valve (4-way valve)
PS (A2P)		power supply	Z*C		noise filter (ferrit core)
Q1DI	#	earth leakage circuit breaker	Z*F		noise filter
R* (A2P)		resistor	* . antional		
R1T		thermistor (air)	* : optional # : field supply		
R2T		thermistor (discharge)	# . Ileiu supply		4D094014

## 9 Wiring diagrams

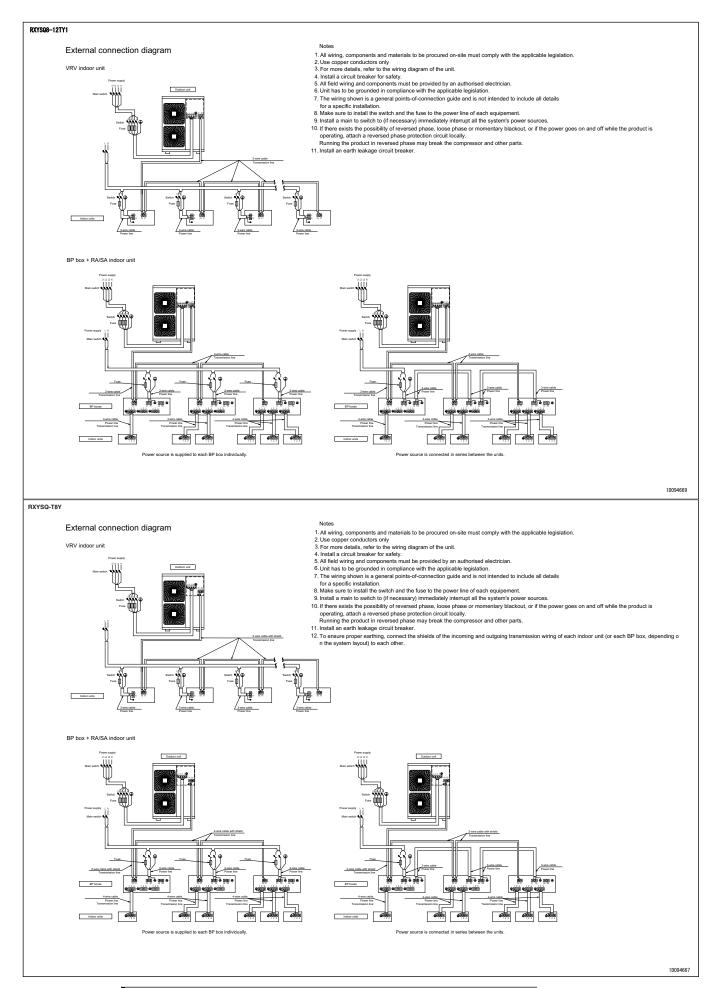
## 9 - 2 Wiring Diagrams - Three Phase

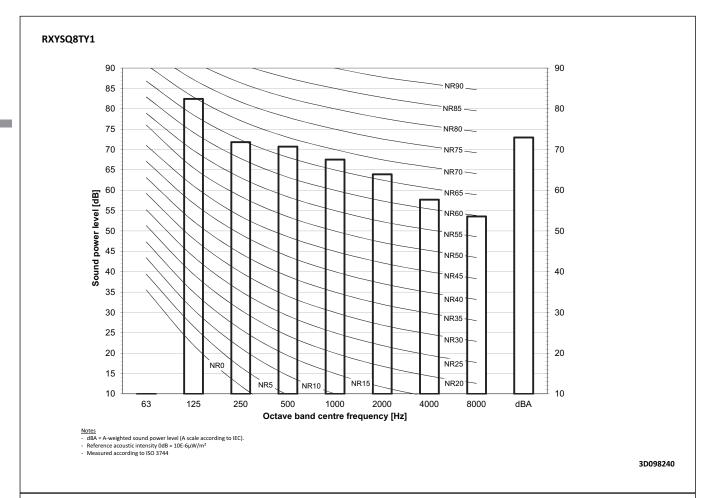




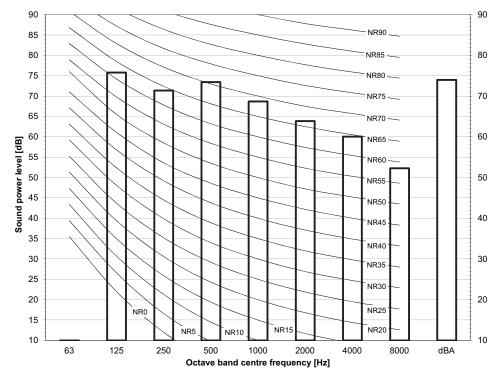
## 10 External connection diagrams

## 10 - 1 External Connection Diagrams



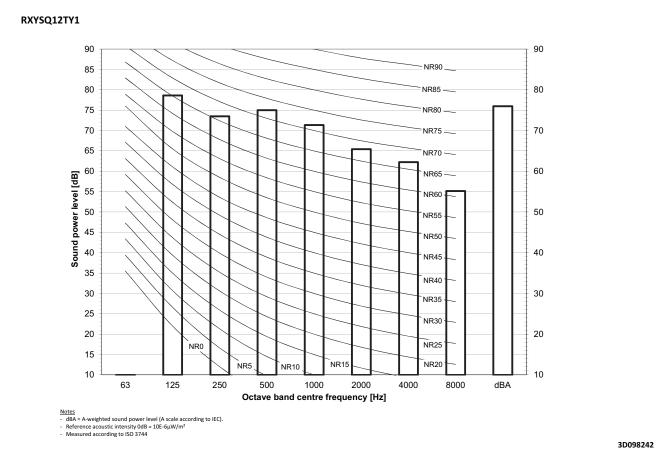


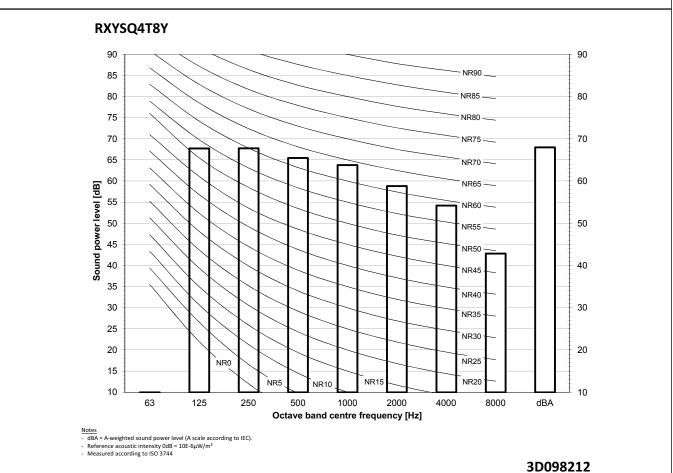




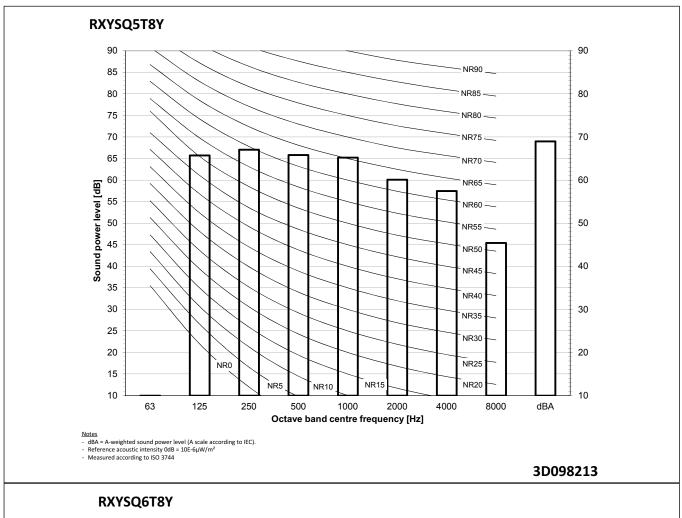
Notes: 
- d8A = A-weighted sound power level (A scale according to IEC). 
- Reference acoustic intensity  $0dB = 10E-6\mu W/m^2$  
- Measured according to ISO 3744

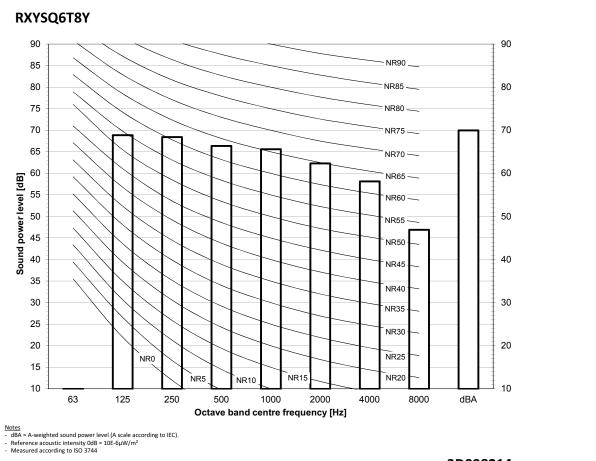
## 11 - 1 Sound Power Spectrum



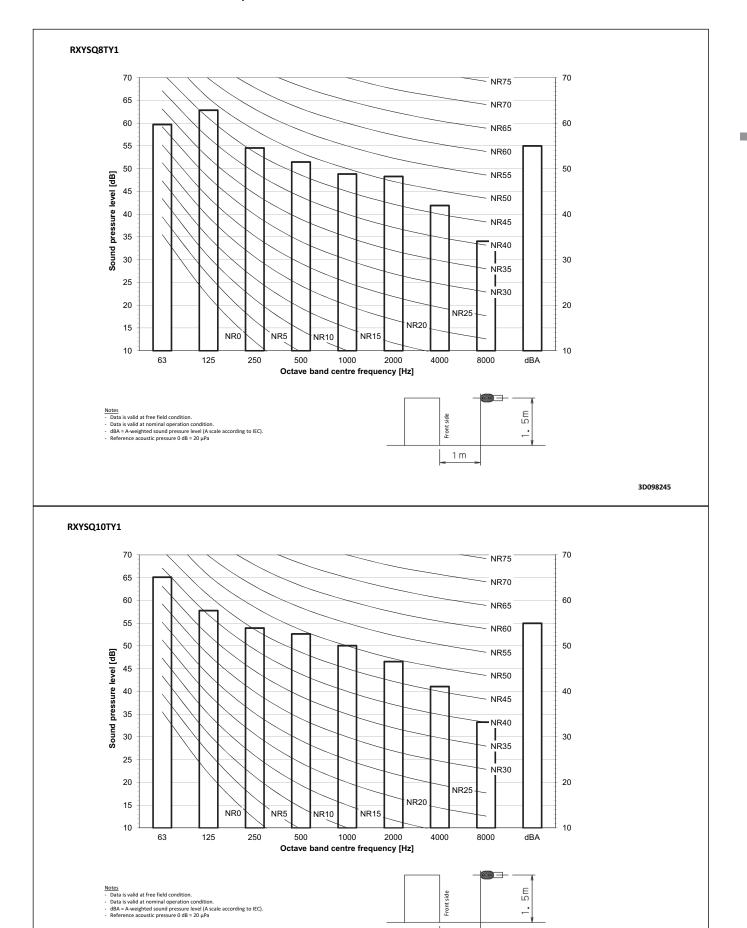


## 11 - 1 Sound Power Spectrum





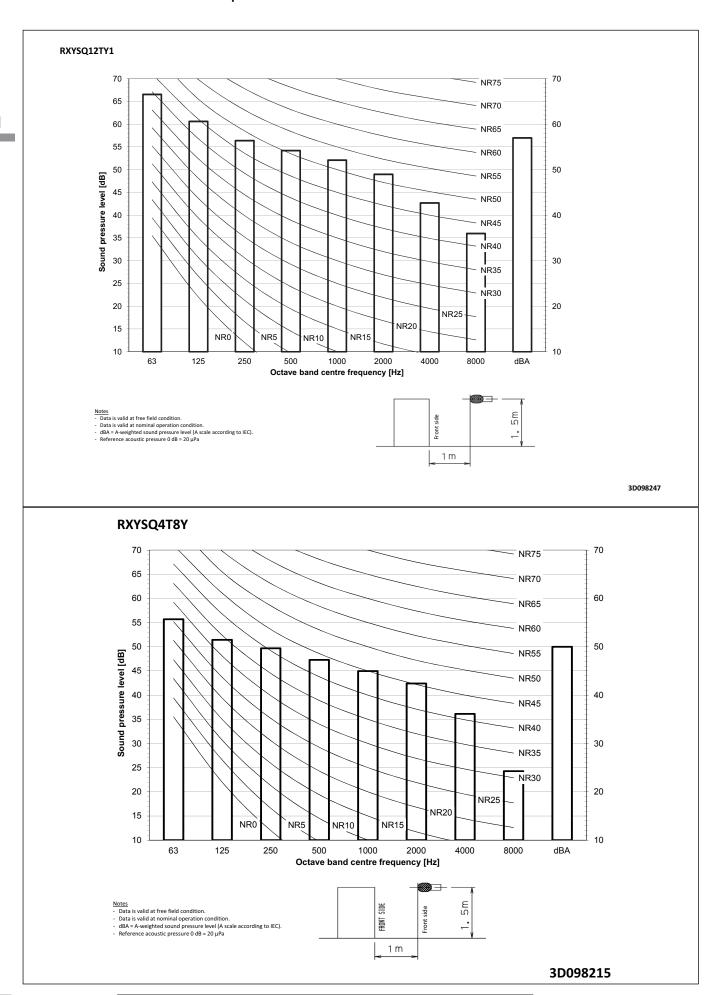
## 11 - 2 Sound Pressure Spectrum



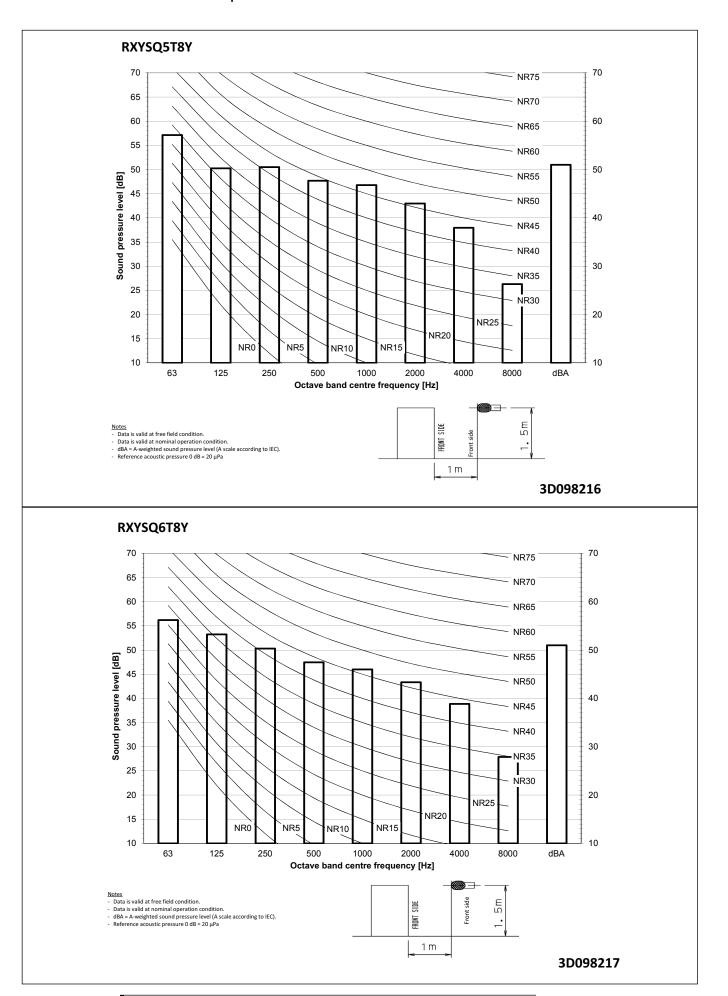
1 m

**DAIKIN** • VRV Systems • RXYSQ-T8Y, RXYSQ-TY1

## 11 - 2 Sound Pressure Spectrum



# 11 - 2 Sound Pressure Spectrum



## 12 - 1 Installation Method

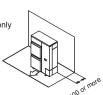
#### RXYSQ8TY1

12

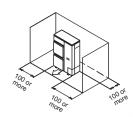
#### Required installation space

The unit of these values is mm.

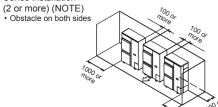
- 1. Where there is an obstacle on the suction side:
- (a) No obstacle above
  - Stand-alone installation
     Obstacle on the suction side only



· Obstacle on both sides

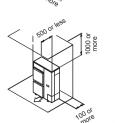


(2) Series installation

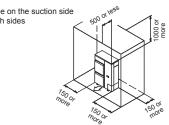


- (b) Obstacle above, too
  - (1) Stand-alone installation

     Obstacle on the suction
    - side, too

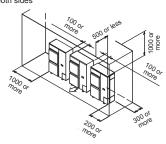


Obstacle on the suction side and both sides



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

Obstacle on the suction side and both sides

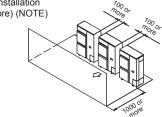


2. Where there is an obstacle on the discharge side:

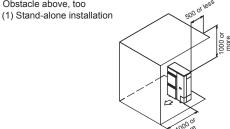
(a) No obstacle above



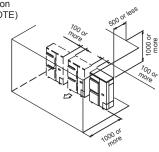
(2) Series installation (2 or more) (NOTE)



(b) Obstacle above, too



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

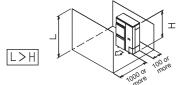


3. Where there are obstacles on both suction and discharge

#### 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 (2 or more) (NOTE) L>H

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#### NOTE

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

#### 12 - 1 Installation Method

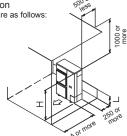
#### RXYSQ8TY1

(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 < I	Set the stand as: I < H	

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



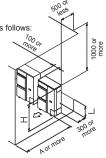
#### (2) Series installation (2 or more) (NOTE)

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 star	nd 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.

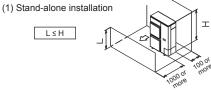


#### Pattern 2

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
		Ore
		× ,
		700 or
		more r
		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		A or More
		1500 or mo
		.600.0

#### (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	100
	1/2 H < L ≤ H	200
H < L	Set the star	nd as: L ≤ H.
frame air fron	the bottom of the to prevent the con being bypass distance exceed ( ), then it's no ind.	discharged ed.

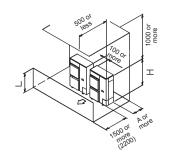
#### (2) Series installation (NOTE)

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	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.

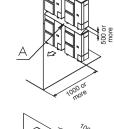
Leave the enough space between the layer one and the board.

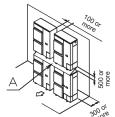
(b) Obstacle on the suction side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two units.

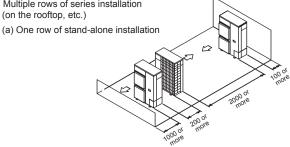
Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

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



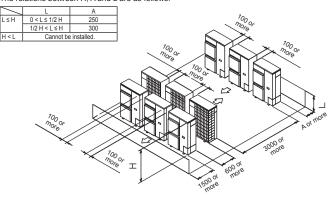


5. Multiple rows of series installation (on the rooftop, etc.)



#### (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 - 1 Installation Method

#### RXYSQ10-12TY1

12

#### Required installation space

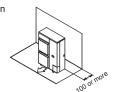
The unit of these values is mm.

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

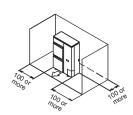
side only

(1) Stand-alone installation

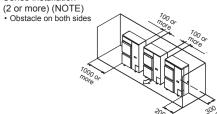
Obstacle on the suction



· Obstacle on both sides

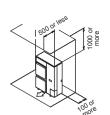


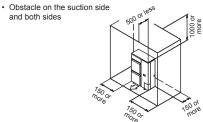
(2) Series installation



- (b) Obstacle above, too
  - (1) Stand-alone installation

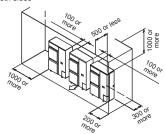
     Obstacle on the suction
    - side, too





(2) Series installation

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



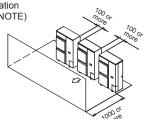
2. Where there is an obstacle on the discharge side:

(a) No obstacle above



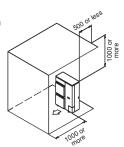


(2) Series installation (2 or more) (NOTE)

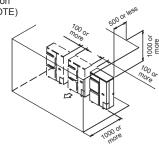


(b) Obstacle above, too

(1) Stand-alone installation



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

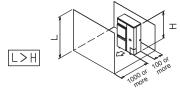


3. Where there are obstacles on both suction and discharge

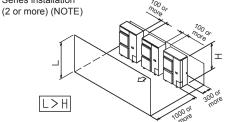
#### Pattern 1

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.

### 12 - 1 Installation Method

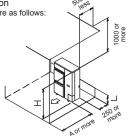
#### RXYSQ10-12TY1

(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 < I	Set the stand as: I < H	

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



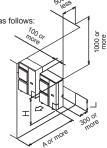
(2) Series installation (2 or more) (NOTE)

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

	Α
L≤H 0 < L≤ 1/2 H	1000
1/2 H < L ≤ H	1250
H < L Set the stand as	s: 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

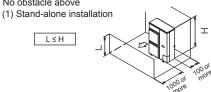


#### Pattern 2

Where the obstacle on the discharge side is lower than

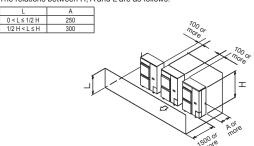
(There is no height limit for obstructions on the intake side)

#### (a) No obstacle above



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

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



#### (b) Obstacle above, too

(1) Stand-alone installation

THE TE	iations betwe	cii ii, A aiiu L	ale as io	IIOWS.	
	L	A			
L≤H	0 < L ≤ 1/2 H	100		500 or	,
	1/2 H < L ≤ H	200		50°ESS	<b>√1</b>
H < L	Set the stan	id as: L≤H.			1000 or more
frame t air fron	the bottom of the prevent the con being bypass istance exceed ), then it's no rind.	lischarged ed. Is the figure			T T A O T T T T T T T T T T T T T T T T

#### (2) Series installation (NOTE)

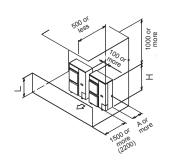
The relations between H, A and L are as follows:

	L	A
L≤H	0 < L ≤ 1/2 H	250
	1/2 H < L ≤ H	300
H < L	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.

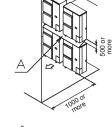
Leave the enough space between the layer one and the board.

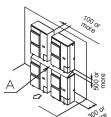
(b) Obstacle on the suction side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

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.

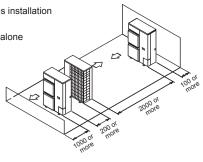
Leave the enough space between the layer one and the board.





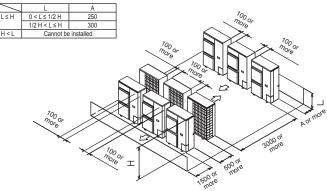
5. Multiple rows of series installation (on the rooftop, etc.)

(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 - 1 Installation Method

## (B) When there are obstacles on discharge sides. **RXYSQ-T8Y** • No obstacle above Required installation space ① Stand-alone installation The unit of the values is mm. (A) When there are obstacles on suction sides. • No obstacle above ② Series installation (2 or more) ① Stand-alone installation • Obstacle on the suction side only • Obstacle on both sides 1000 or more 500 or less • Obstacle above, too ① Stand-alone installation ②Series installation (2 or more) Obstacle on both sides ② Series installation (2 or more) 1000 or more 500 or less • Obstacle above, too. ① Stand-alone installation • Obstacle on the suction side, too (C) When there are obstacles on both suction and discharge sides.: Pattern 1 When the obstacles on the discharge side is higher 500 or less than the unit. • Obstacle on the suction side and both (There is no height limit for obstructions on the intake • No obstacle above ① Stand-alone installation L>H 500 or more ② Series installation (2 or more) Obstacle on the suction side and both sides ② Series installation (2 or more) L>H 300 or more 3D045696D

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#### 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
L≧H	1/2 H < L ≦ H	1000
H <l< th=""><th colspan="2">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 (2 or more)

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

	l	A
L≤H	0 < L ≦ 1/2 H	1000
r a n	1/2 H < L ≦ H	1250
H <l< th=""><th colspan="2">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

#### Pattern 2

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 E are as follows.		
L	A	
0 < L ≦ 1/2 H	250	
1/2 H < L ≦ H	300	

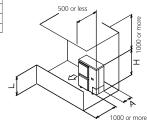
• Obstacle above, too

① Stand-alone installation

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

I		L	A	
	L≦H	0 < L ≦ 1/2 H	100	
		1/2 H < L ≦ H	200	
	H <l< th=""><th>Set the stand</th><th>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.



500 or more

#### 2 Series installation

The relations between H, A and L are as

			Α
			^
	L≦H	0 < L ≦ 1/2 H	250
		1/2 H < L ≦ H	300
	das: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.

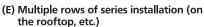
#### (D) Double-decker installation

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.

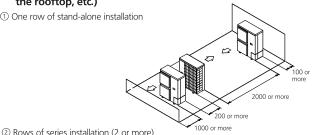


Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit.



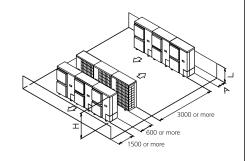
① One row of stand-alone installation



500 or le

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		



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## 12 - 2 Refrigerant Pipe Selection

## **RXYSQ-T8Y RXYSQ-TY1**

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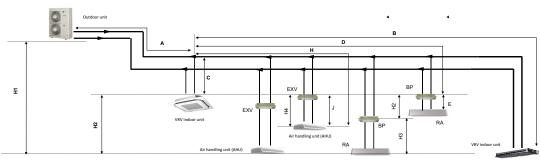
Maximum piping length Maximum height difference Longest pipe After first branch Indoor-to-outdoor Indoor-to-indoor (A+[B,D+E,H]) (B,D+E,H) (H2) For the reference drawing, see page 2/3. **Total piping length** Outdoor above indoor / Actual / (Equivalent) Actual (indoor above outdoor) Standard RXYSCQ4~5TMV1B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

#### Notes

- 1. 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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## **RXYSQ-T8Y RXYSQ-TY1**



- Sechematic 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 p	iping length	Maximum height 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		

- Multiple air handling units (·AHU·)(·EKEXV· + ·EKEQ· kits).

  Mix of air handling units (·AHU·) and ·VRV DX· indoor units

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## 12 - 2 Refrigerant Pipe Selection

## **RXYSQ-T8Y** 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-)	VRV DX indoor unit	-RA DX- indoor unit	Air handling unit (AHU)
		Excluding ·BP· units and including ·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. •FXMQ\_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  $\leq$  100-%. Minimum connection ratio when only -FXMQ\_MF- units are connected: -CR  $\geq$  50-%

- Minimum connection ratio when only -FXMQ\_MF- units are connected: -CR ± 50%
  For information on the operation range, refer to the documentation of the -FXMQ\_MF- unit.

  | II. -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 -Biddle- unit.

  | III. KEKEV + 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 -KEKV-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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#### RXYSQ8-12TY1

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Notes

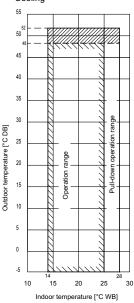
1. These figures assume the following operation conditions Indoor and outdoor units

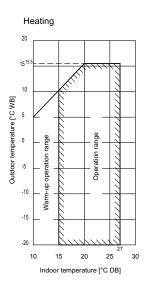
Equivalent piping length: 5m Level difference: 0m

- 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.







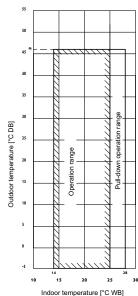
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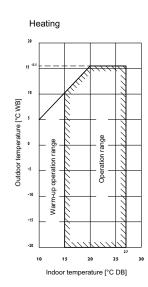
## RXYSQ-T8Y

- 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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# **Appropriate Indoors**

## 14 - 1 Appropriate Indoors

#### **RXYSQ-T8Y** RXYSQ-TY1

#### Recommended indoor units for RXYSQ\*T\* AND RXYSCQ\*T\* outdoor units

HP	4	5	6	8	10	12
	3xFXSQ25	4xFXSQ32	2xFXSQ32	4xFXMQ50	4xFXMQ63	6xFXMQ50
	1xFXSQ32	4XFX3Q32	2xFXSQ40	4XFXIVIQ50	4XFXIVIQ03	DXFXIVIQOU

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

#### Appropriate indoor units for RXYSQ\*T\* AND RXYSCQ\*T\* outdoor units

#### Covered by ENER LOT21

FXFQ20-25-32-40-50-63-80-100-125 FXZQ15-20-25-32-40-50 FXCQ20-25-32-40-50-63-80-125 FXKQ25-32-40-63 FXDQ15-20-25-32-40-50-63 FXSQ15-20-25-32-40-50-63-80-100-125-140 FXMQ50-63-80-100-125-200-250 FXAQ15-20-25-32-40-50-63

FXHQ32-63-100

FXUQ71-100

FXNQ20-25-32-40-50-63 FXLQ20-25-32-40-50-63

#### Covered by ENER LOT10

FTXJ25-35-50 FTXM20-25-35-42-50-60-71 CTXM15 FLXS25-35-50-60 FVXM25-35-50 FVXG25-35-50 FNA25-35-50-60 FDXM25-30-50-60 FFA25-35-50-60 FCAG35-50-60-71

FHA35-50-60-71 FBA35-50-60-71

#### Outside the scope of ENER LOT21

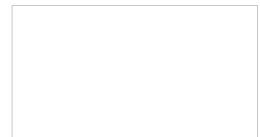
EKEXV50-63-80-100-125-140-200-250 + EKEQM / EKEQF VKM50-80-100

CYVS100-150-200-250 CYVM100-150-200-250 CYVL100-150-200-250

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