

# Air Conditioning **Technical Data**

**VRV IV S-series heat pump** 



EEDEN16-200\_2

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# **RXYSQ-TV1**

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#### 1 Features

#### Space saving solution without compromising on efficiency

- · 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
- 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

4

# 2 Specifications

2-1 Technical S	pecifications				RXYSQ4TV1	RXYSQ5TV1	RXYSQ6TV1		
Capacity range			I	HP	4	5	6		
Cooling capacity	Nom.	35°CDB	ı	kW	12.1 (1)	14.0 (1)	15.5 (1)		
Heating capacity	Nom.	6°CWB	ı	kW	12.1 (2)	14.0 (2)	15.5 (2)		
0 1 7	Max.	6°CWB		kW	14.2 (2)	16.0 (2)	18.0 (2)		
Power input - 50Hz	Cooling	Nom.		kW	3.03 (1)	3.73 (1)	4.56 (1)		
1 Ower Impat - 30112	Cooling	NOIII.	В			3.73 (1)			
	Heating	Nom.	6°CWB	kW	2.68 (2)	3.27 (2)	3.97 (2)		
		Max.	6°CWB	kW	3.43 (2)	4.09 (2)	5.25 (2)		
Capacity control	Method		•			Inverter controlled			
EER at nom. capacity	35°C AHRI		I	kW/kW	4.00 (1)	3.75 (1)	3.40 (1)		
COP at nom. capacity	6°CWB		ı	kW/kW	4.52 (2)	4.28 (2)	3.90 (2)		
COP at max. capacity	6°CWB			kW/kW	4.14 (2)	3.91 (2)	3.43 (2)		
Maximum number of co		ınits	1	,	(–)	64 (3)	J. 1. (-)		
Indoor index	Min.				50	62.5	70		
connection	Nom.				30	- 02.3	10		
					420		400		
Dimanaiana	Max.	11/25/10			130	162.5	182		
Dimensions	Unit	Height		mm		1,345			
		Width		mm		900			
		Depth		mm		320			
	Packed unit	Height	1	mm		1,524			
	Width		1	mm		980			
		Depth	1	mm		420			
Weight	Unit		ŀ	kg	104				
	Packed unit		ŀ	kg		114			
Packing	Material		<u> </u>		Carton				
•	Weight kg Material		kg	3.9					
Packing 2				Wood					
	Weight kg			ka	5.6				
Packing 3				<b>'9</b>		Plastic			
i acking 5	Material Weight kg			·a	0.5				
0	Weight			\y					
Casing	Colour				Daikin White				
	Material				Painted galvanized steel plate				
Heat exchanger	Туре	1			Cross fin coil				
	Fin	Treatmer	nt		Anti-corrosion treatment				
Compressor	Quantity				1				
	Туре				Hermetically sealed swing compressor				
	Model				Inverter				
Fan	Quantity					2			
	Air flow rate	Cooling	Nom.	m³/min	106				
	External static	Max.	I	Pa		-			
	pressure								
	Discharge direction	n			Horizontal				
	Туре				Propeller fan				
Fan motor	Quantity					2			
	Output		1	W		70			
	Model		<u> </u>			Brushless DC motor			
Sound power level	Cooling	Nom.	(	dBA			70 (4)		
Sound pressure level	Cooling	Nom.		dBA	50 (5)		(5)		
Operation range	Cooling	Min.~Max		°CDB		-5~46			
	Heating	Min.~Max		°CWB		-20~15.5			
Refrigerant	Type	IVIIII. IVIA	٠.	2112					
i tomy <del>o</del> rani	GWP				R-410A				
			Ι-	TOO	2,087.5				
	Charge			TCO <sub>2</sub> eq	7.5				
	<u> </u>		ŀ	kg	3.6				
Refrigerant oil	Туре				Synthetic (ether) oil FVC50K				
	Charged volume		1			1.4			

# 2 Specifications

2-1 Technical	Specifications				RXYSQ4TV1	RXYSQ5TV1	RXYSQ6TV1
Piping connections Liquid Type					Flare connection		
		OD		mm	9.52		
	Gas	Туре			Flare co	nnection	Braze connection
		OD		mm	15	5.9	19.1
	Total piping length	System	Actual	m		300	
	Level difference	OU - IU	Outdoo r unit in highest position	m		-	
1			Indoor unit in highest position	m			
	Heat insulation				Both liquid and gas pipes		
Defrost method					Reversed cycle		
Safety devices	Item	01			High pressure switch		
		02				Fan driver overload protector	
		03			Inverter overload protector PC board fuse		
		04					
PED	Category				Category I		
	Most critical part	Name				Compressor	
		Ps*V		Bar*l	167		

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

2-2 Electrical S	pecifications			RXYSQ4TV1	RXYSQ5TV1	RXYSQ6TV1
Power supply	Name			V1		
	Phase				1N~	
	Frequency		Hz		50	
	Voltage		V		220-240	
Voltage range	Min.		%		-10	
	Max. %			10		
Current	Nominal running current (RLA) - 50Hz	Cooling	А	14.0 (6)	17.3 (6)	21.2 (6)
Current - 50Hz	Zmax	List	•	No requirements		
	Minimum circuit amps (MCA)		29.1			
	Maximum fuse amps (MFA)		Α	32		
	Total overcurrent am	ps (TOCA)	Α	29.1 (7)		
	Full load amps Total A (FLA)		А	0.6		
Wiring connections -	For power supply	Quantity	•	3G		
50Hz	For connection with	Quantity		2		
	indoor	Remark		F1,F2		
Power supply intake				Both indoor and outdoor unit		

### 2 Specifications

#### 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) 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%).
- (3) Sound power level is an absolute value that a sound source generates.
- (4) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.
- (5) Sound values are measured in a semi-anechoic room.
- (6) MSC means the maximum current during start up of the compressor. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.
- (7) FLA: nominal running current fan

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

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

MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.

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

TOCA means the total value of each OC set.

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%.

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

# **3** Options 3 - 1 Options

RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

Nr.	Item	RXYSCQ4~5TMV1B	RXYSQ4~6T7V1B	RXYSQ4~6T7Y1B	RXYSQ8~12TMY1B	RXYSQ6T7Y1B9	
	Refnet header	KHRQ22M29H					
	Vettlef tleadet	-	•	-	KHRQ22M64H	-	
				KHRQ22M20T			
H.	Refnet joint	-	-	-	KHRQ22M29T9	-	
		-	-	-	KHRQ22M64T	-	
1a.	Cool/heat selector (switch)	-	KRC	19-26	-	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	-	EKI	OK04	-	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\*GT7V1B
  To operate the cool/heat selector function, options 1a and 1c are both required.
  4. For RXYSQ4\*GT7Y1B
  To operate the cool/heat selector function, options 1a and 1d are both required.

3D097778A

# **Combination table**

#### 4 - 1 **Combination Table**

RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

	Configuration	on	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
indoor unit			FTXS71G
ō		CTXS	CTXS15K
မွ			CTXS35K
	Floor-standing	Flex	FLXS25B
RA box +	Ceiling-mounted		FLXS35B
lĝ			FLXS50B
₹			FLXS60B
~	Floor-standing	FVXS	FVXS25F
			FVXS35F
			FVXS50F
		Nexura	FVXG25K
			FVXG35K
			FVXG50K
l	Duct	FDXS	FDXS25F
			FDXS30F
			FDXS50F9
			FDXS60F

	Configurati	Indoor unit type	
	Cassette	Fully Flat 2x2	FFQ25C
			FFQ35C
			FFQ50C
			FFQ60C
SA box + indoor unit		Roundflow 3x3	FCQG35F
2			FCQG50F
8			FCQG60F
ē			FCQG71F
<del>-</del>	Ceiling-suspended		FHQ35C
×			FHQ50C
ă			FHQ60C
S			FHQ71C
	Duct		FBQ35D
			FBQ50D
			FBQ60D
			FBQ71D

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.

#### 4 - 1 **Combination Table**

RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

4

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	x	0	х	х
Hydrobox unit (1)	х	х	х	х
Air handling unit (AHU)	0,	х	х	01

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

  → Z-control is possible (the allowed number of [EKEXV + EKEQMA boxes] is determined by the connection ratio (90-110%) and the capacity of the c
- 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:

  → EKEXV + 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	X	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 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.
  - → <a href="http://extranet.daikineurope.com/captab">http://extranet.daikineurope.com/captab</a>
- E-data app: gives a complete overview of the Daikin products available in your country, with all engineering data and commercial info in your own language. Download the app now!
  - → <a href="https://itunes.apple.com/us/app/daikin-e-data/id565955746?mt=8">https://itunes.apple.com/us/app/daikin-e-data/id565955746?mt=8</a>



- Selection software: allows you to do load calculations, equipment selections and energy simulations for our VRV, Daikin Altherma, refrigeration and applied systems products.
  - $\hspace{2.5cm} \hspace{2.5cm} \rightarrow \underline{\text{http://extranet.daikineurope.com/en/software/downloads/default.jsp}}$

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.

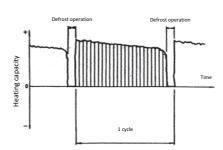
The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

- 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

_	illet all temperature of heat exchanger							
Ε	[°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							
L	RXYSQ6T7Y1B9							
I	RXYSQ8TMY1B	0,95	0,93	0,88	0,84	0,85	0,90	1,00
I	RXYSQ10TMY1B	0,95	0,93	0,87	0,79	0,80	0,88	1,00
I	RXYSQ12TMY1B	0,95	0,92	0,87	0,75	0,76	0,85	1,00

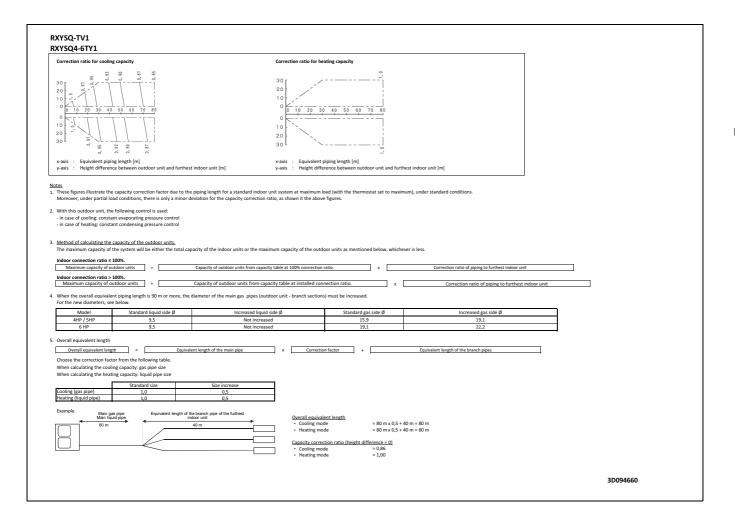


- The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

  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.

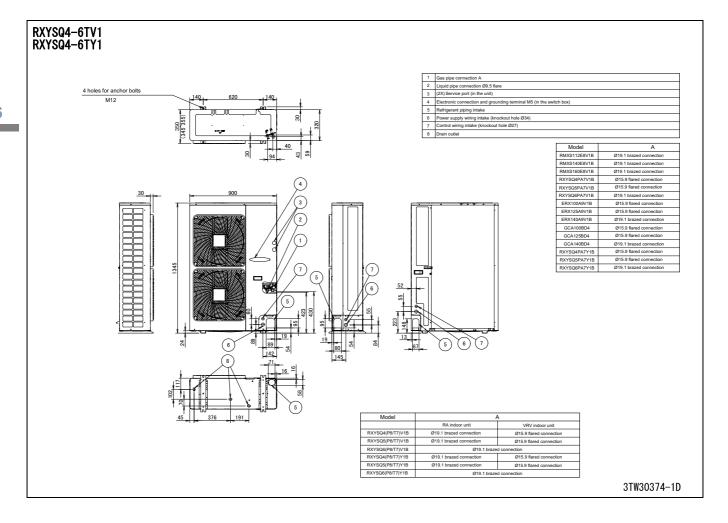
# 5 Capacity tables

# 5 - 3 Capacity Correction Factor

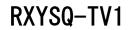


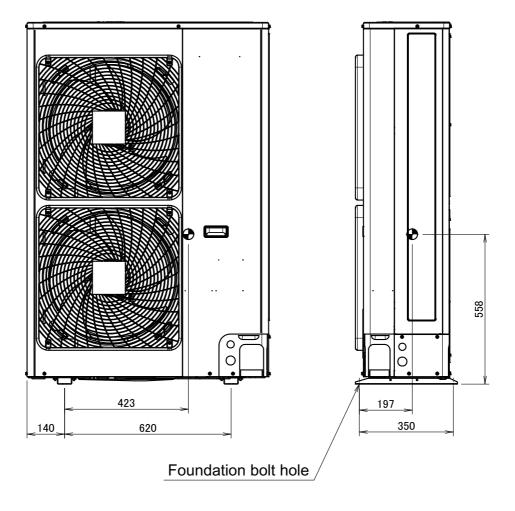
# **Dimensional drawings**Dimensional Drawings 6

#### 6 - 1



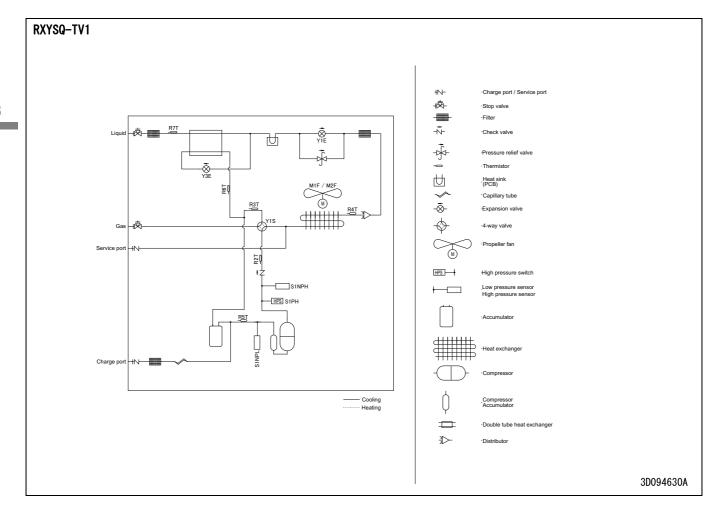
# Centre of gravity Centre of Gravity **7** 7 - 1





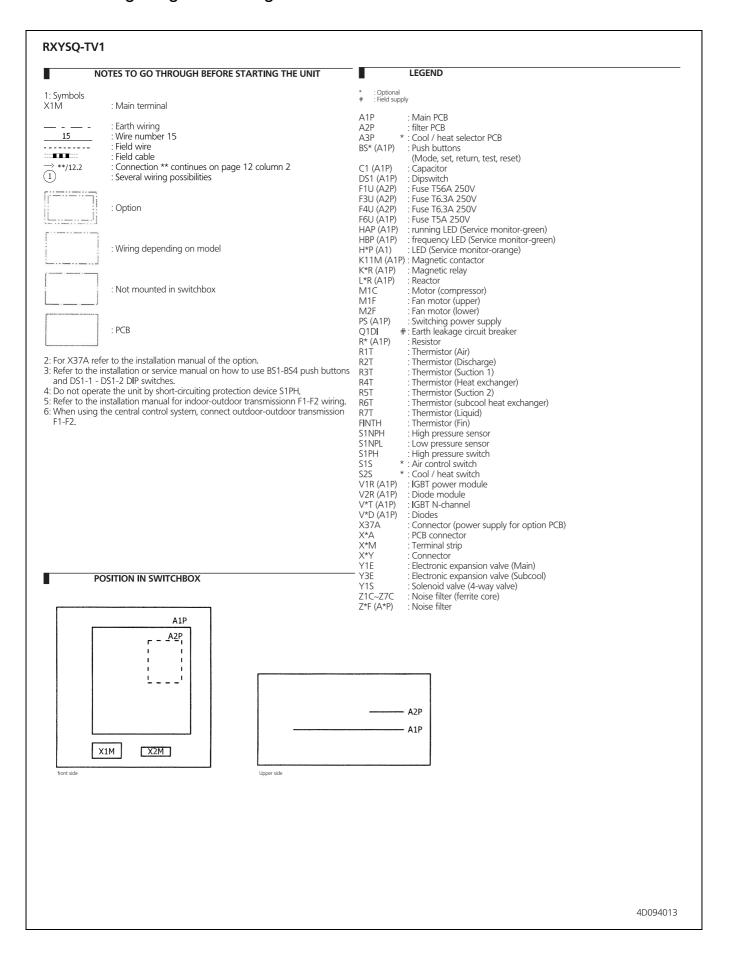
# **Piping diagrams**Piping Diagrams 8

# 8 - 1

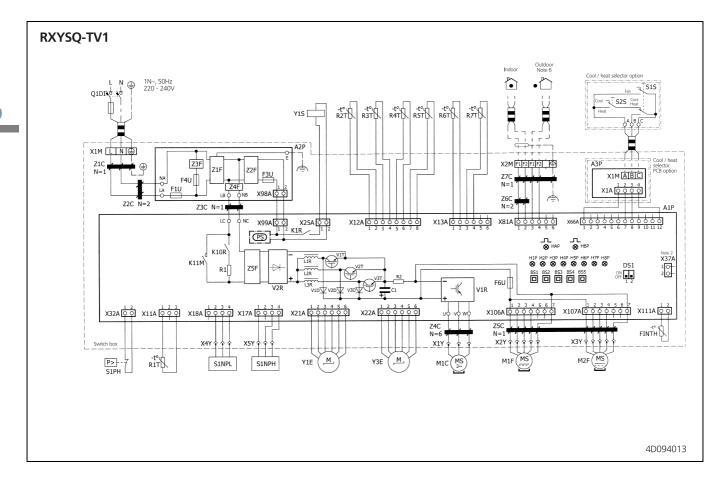


## 9 Wiring diagrams

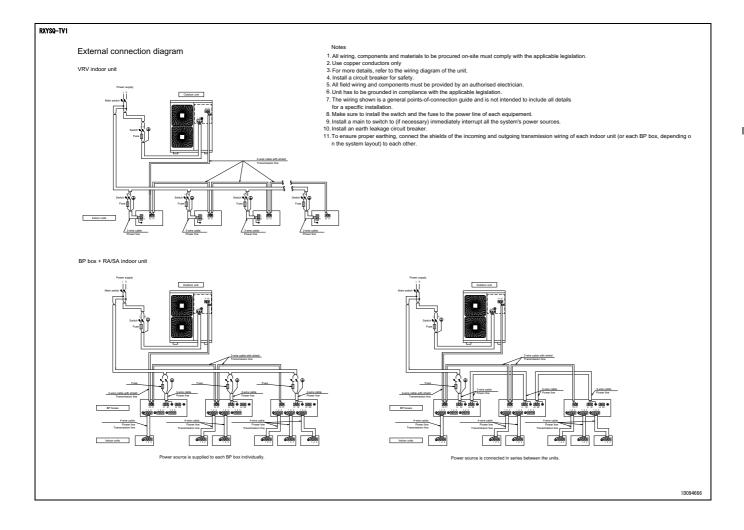
### 9 - 1 Wiring Diagrams - Single Phase



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

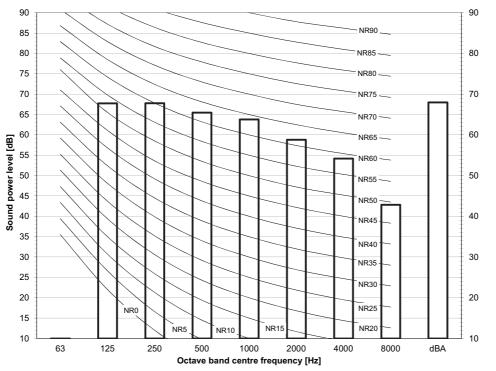


# 10 External connection diagrams10 - 1 External Connection Diagrams





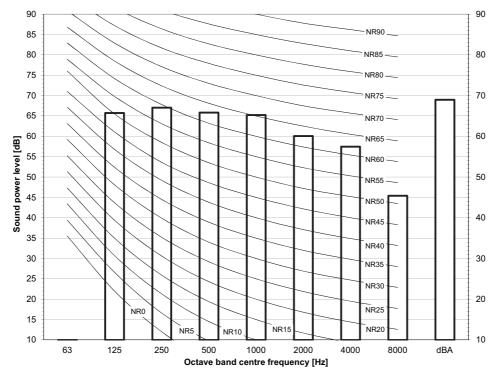
RXYSQ4TV1 RXYSQ4TY1



 $\label{eq:Notes} \begin{array}{ll} \underline{Notes} \\ - dBA = A\text{-weighted sound power level (A scale according to IEC)}. \\ - Reference acoustic intensity 0dB = 10E-6 \mu W/m^2 \\ - Measured according to ISO 3744 \\ \end{array}$ 

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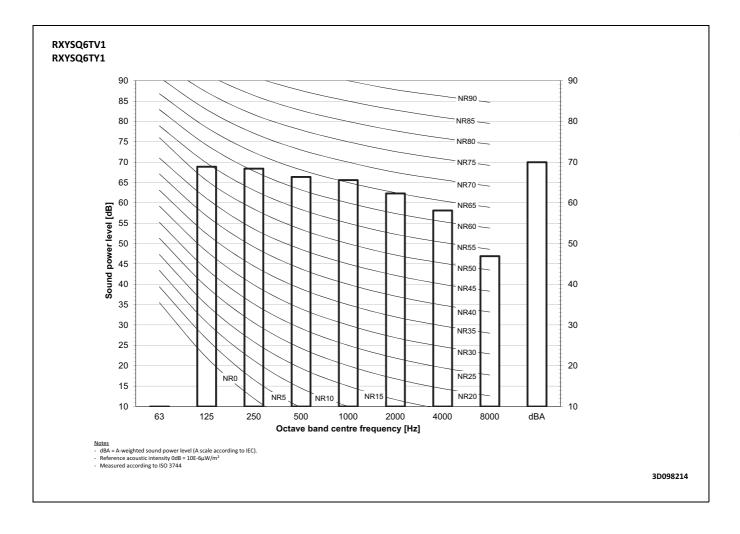
#### RXYSQ5TV1 RXYSQ5TY1



 $\label{eq:Notes} \begin{array}{ll} Notes \\ - \ dBA = A\mbox{-weighted sound power level (A scale according to IEC)}. \\ - \ Reference acoustic intensity 0dB = 10E-6 \mu W/m^2 \\ - \ Measured according to ISO 3744 \\ \end{array}$ 

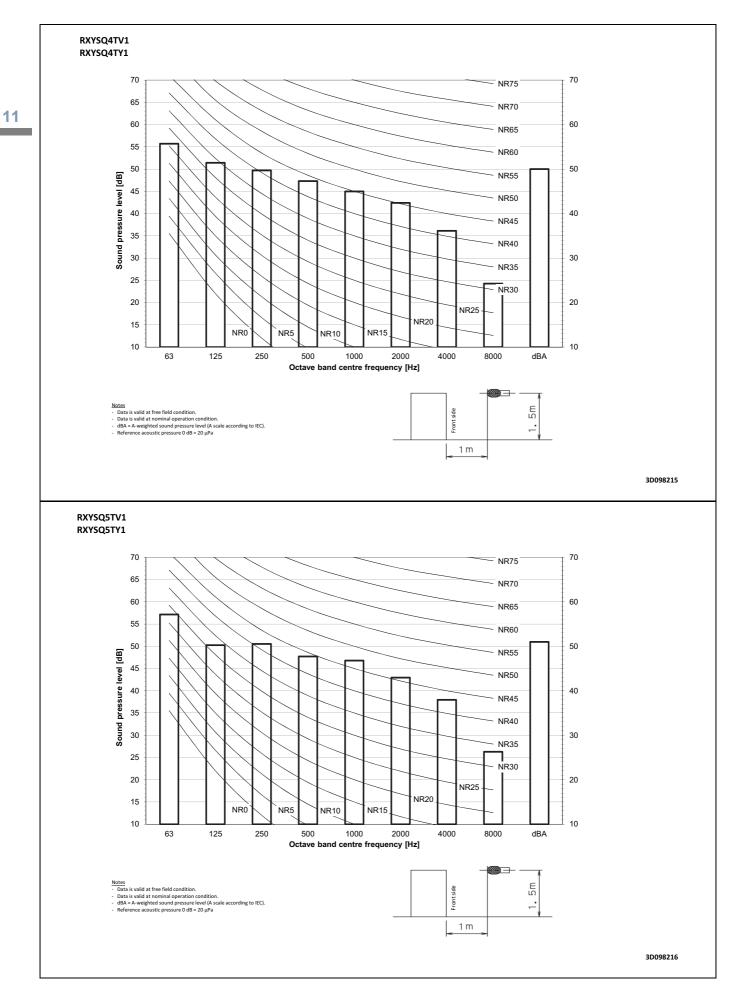
## 11 Sound data

## 11 - 1 Sound Power Spectrum



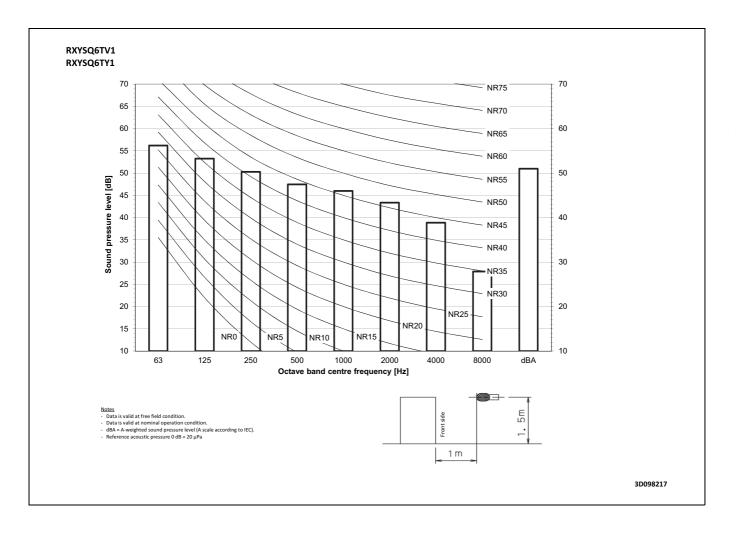
#### Sound data

## 11 - 2 Sound Pressure Spectrum



## 11 Sound data

## 11 - 2 Sound Pressure Spectrum



#### 12 Installation

12

#### 12 - 1 Installation Method

### RXYSQ-TV1 (B) When there are obstacles on discharge sides. RXYSQ4-6TY1 • 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 les • Obstacle above, too ① Stand-alone installation ②Series installation (2 or more) • Obstacle on both sides ② Series installation (2 or more) 1000 or mor 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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#### Installation

#### 12 - 1 Installation Method

#### RXYSQ-TV1 RXYSQ4-6TY1

#### 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< th=""><th colspan="6">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

	Ĺ	A
I≤H	0 < L ≦ 1/2 H	1000
L≧n	1/2 H < L ≦ H	1250
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.

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

② Series installation (2 or more)

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

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

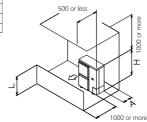


① Stand-alone installation

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

I		L	A
	L≤H	0 < L ≦ 1/2 H	100
	L = n	1/2 H < L ≦ H	200
	H < 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



The relations between H, A and L are as

	L	A
I≤H	0 < L ≦ 1/2 H	250
L = 11	1/2 H < L ≦ H	300
H <l< th=""><th>Set the stand</th><th>las:L≦ H</th></l<>	Set the stand	las:L≦ H

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

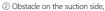
Only two units can be installed for this series.

#### (D) Double-decker installation

① Obstacle on the discharge side.

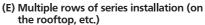
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being by page 20 bypassed.

Do not stack more than two unit.

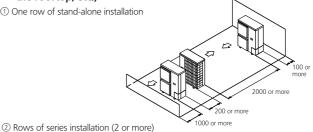


Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit.



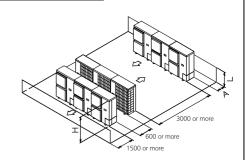
① One row of stand-alone installation



500 or le

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

	L	A
L≦H	0 < L ≦ 1/2 H	L ≦ H 300
L = n	1/2 H < L ≦ H	300
421	Can not be	installed



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#### **VAIKIN** • VRV Systems • RXYSQ-TV1

# 12 - 2 Refrigerant Pipe Selection

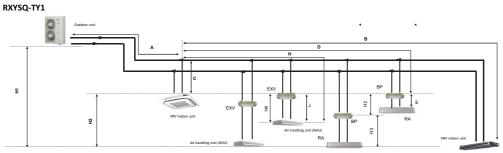
RXYSCQ-TV1 RXYSQ-TV1 RXYSQ-TY1

		Maximum p	iping length	Maximum hei	ght difference	
		Longest pipe	After first branch	Indoor-to-outdoor	Indoor-to-indoor	
For the refere	nce drawing, see page ·2/3·.	(A+[B,D+E,H]) Actual / (Equivalent)	(B,D+E,H) Actual	(H1) Outdoor above indoor / (indoor above outdoor)	(H2)	Total piping length
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
24	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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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 height difference				
			-BP- to -RA- (E)	·EXV· to ·AHU· (J)	·BP· to ·RA· (H3)	·EXV· to ·AHU· (H4)
·RA- connection	RA- connection		2~15m	-	5m	-
	Pair		=	≤5m	=	5m
Air handling unit (AHU)	Multi	(1)	-	≤5m	-	5m
Connection	Mix	(2)	-	≤5m	-	5m

#### 12 Installation

## 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)
·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 air handling unit connected to one outdoor unit

- About ventilation applications

  1. +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-XDM\_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 -Biddle- 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 -EKEXY-EKEQ- unit.

  IV. -VXM- units are considered to be regular -VXP VDX indoor units.

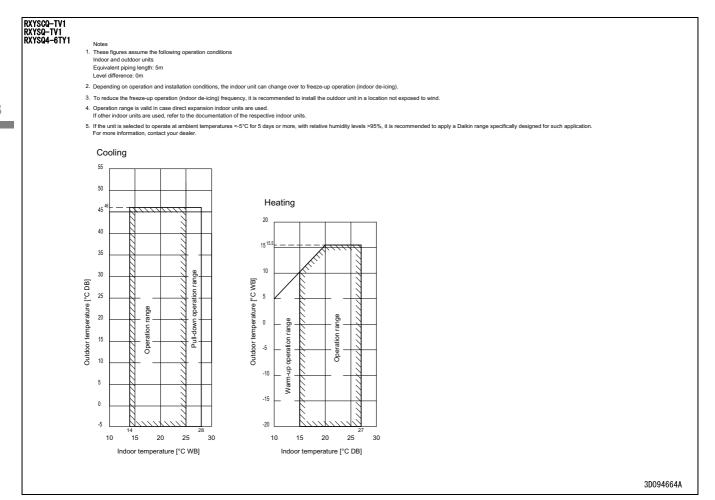
  For information on the operation range, refer to the documentation of the -VXM- unit.

  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.

# 13 Operation range

## 13 - 1 Operation Range











Daikin Europe N.V. participates in the Eurovent Certification programme for Liquid Chilling Packages (LCP), Air handling units (AHU), Fan coll units (FCU) and variable refrigerant flow systems (VRF) Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com

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