

VRV IV S-series compact heat pump Air Conditioning Technical Data RXYSCQ-TV1



RXYSCQ4TMV1B RXYSCQ5TMV1B RXYSCQ6TMV1B

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1 Features 1 - 1 RXYSCO-TV1

The most compact VRV

- Compact & lightweight single fan design makes the unit almost unnoticeable
- 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, Perfera ...
- > 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, extended lifetime and immediate service support thanks to failure prediction





2 Specifications

1 - 1 RXYSCQ-TV1

Technical Spe		ns		RXYSCQ4TV1	RXYSCQ5TV1	RXYSCQ6TV1
Recommended cor	nbination			3 x FXSQ25A2VEB + 1 x	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x
				FXSQ32A2VEB		FXSQ40A2VEB
Cooling capacity	Prated,c		kW	12.1 (1)	14.0 (1)	15.5 (1)
Heating capacity	Nom.	6°CWB	kW	12.1 (2)	14.0 (2)	15.5 (2)
	Prated,h		kW	12.1 (2)	14.0 (2)	15.5 (2)
	Max.	6°CWB	kW	14.2 (2)	16.0 (2)	18.0 (2)
Power input - 50Hz	Heating	Nom. 6°CWB	kW	2.82 (2)	3.44 (2)	4.18 (2)
COP at nom.	6°CWB		kW/kW	4.29	4.07	3.71
capacity	0 0.00					5
SCOP				4.6		4.7
				8.1	7.7	
SEER						7.1
ηs,c			%	322.8	303.4	281.3
ηs,h			%	182.3	185.1	186.0
Space cooling	A Condi-			3.2		2.7
	tion (35°C	Pdc	kW	12.1	14.0	15.5
	- 27/19)					
	B Condi-	EERd		5.5	5.0	4.5
	tion (30°C	Pdc	kW	8.9	10.3	11.4
	- 27/19)					
	C Condi-	EERd		11.4	10.5	8.9
	tion (25°C		kW	5.7	6.6	7.3
	- 27/19)	1.40		5.7	0.0	
	- 27/19) D Condi-	FERA		10 6	19.9	21.2
			1.14/	18.6		21.2
	tion (20°C	PUC	kW	4.8	4.9	5.0
	- 27/19)					
Space heating	TBivalent	COPd (declared COP)		2.8		2.7
(Average climate)		Pdh (declared heating cap)	kW	8.4	9.7	10.7
		Tbiv (bivalent temperature)	°C		-10	
	TOL	COPd (declared COP)		2.8		2.7
		Pdh (declared heating cap)	kW	8.4	9.7	10.7
		Tol (temperature operating	°C		-10	
		limit)	~		10	
	A Con-	COPd (declared COP)		3.2		3.1
			1.14/	7.4		
	dition	Pdh (declared heating cap)	kW	7.4	8.5	9.5
	(-7°C)					
		COPd (declared COP)		4.		4.4
	tion (2°C)	Pdh (declared heating cap)	kW	4.5	5.2	5.8
		COPd (declared COP)		6.3	6.4	6.6
	tion (7°C)	Pdh (declared heating cap)	kW	3.	4	3.7
	D Con-	COPd (declared COP)		7.9	8.1	8.2
	dition	Pdh (declared heating cap)	kW		4.0	
	(12°C)	(
Capacity range	(.2 0)		HP	4	5	6
PED	Category			т	Category I	U
		Nama				
	Most	Name			Compressor	
	critical					
	part					
PED	Most	Ps*V	Bar*l		167	
	critical					
	part					
Maximum number	of connect	able indoor units			64 (3)	
ndoor index	Min.			50.0	62.5	70.0
connection	Max.			130.0	162.5	182.0
Dimensions	Unit	Height	mm		823	
2	51110	Width	mm		940	
	Declard	Depth	mm		460	
	Packed	Height	mm		995	
	unit	Width	mm		1,030	
		Depth	mm		580	
Weight	Unit		kg		89	
	Packed ur	nit	kg		101	
Packing	Material		-		Carton	
	Weight		kg		3.8	
Packing 2	Material		ĸy		Wood	
racking 2			lin			
	Weight		kg		5.8	
Packing 3	Material				Plastic	
5	14/-1-1-1		kg		1.1	
	Weight					
Casing	Colour				Daikin White	

2 Specifications

1 - 1 RXYSCQ-TV1

	Technical Specifications			RXYSCQ4TV1 RXYSCQ5TV1 RXYSCQ6TV1					
Heat exchanger	Туре				Cross fin coil				
	Indoor sid					Air			
	Outdoor					Air			
	Air flow	Cooling	Rated	m³/h		5,460			
	rate	Heating	Rated	m³/h		5,460			
an	Quantity					1			
Fan motor	Quantity					1			
	Туре					DC motor			
	Output			W		200			
Compressor	Quantity					1			
	Туре				He	ermetically sealed swing compress	or		
	Crankcase			W		-5.0			
Operation range	Cooling	Min.		°CDB					
		Max.		°CDB	46.0 -20.0 15.5				
	Heating	Min.		°CWB					
		Max.		°CWB					
Sound power level		Nom.		dBA	68.0 (4)	69.0 (4)	70.0 (4)		
Sound power level		Prated,h		dBA	69.0 (4)	70.0 (4)	71.0 (4)		
Sound pressure evel	Cooling	Nom.		dBA	51.0 (5)	52.0 (5)	53.0 (5)		
Refrigerant	Туре			i	R-410A				
-	GWP				2,087.5				
	Charge			TCO2Eq		7.7			
	Charge			kg		3.7			
Refrigerant oil	Туре					Synthetic (ether) oil FVC50K			
ping connections Liqu		Туре				Flare connection			
, , ,		OD		mm	10				
	Gas	Туре			Flare connection				
		OD OD		mm	15.9		19.1		
	Total	System	Actual	m	300 (6)				
	piping length	.,				(-)			
Defrost method						Reversed cycle			
Capacity control	Method					Inverter controlled			
ndication if the hea		pped with	a supplement	ntary heater		no			
Supplementary	Back-up	Heating	elbu	kW		0.0			
heater	capacity	· reating				0.0			
Power consump-	Crank-	Cooling	РСК	kW		0.000			
tion in other than	case	Heating	PCK	kW		0.049			
active mode	heater mode	. reating				0.072			
	Off mode	Cooling	POFF	kW		0.039			
	Shinoue	Heating	POFF	kW		0.039			
	Standby	Cooling	PSB	kW		0.039			
	mode	Heating	PSB	kW		0.039			
	Thermo-		PTO	kW		0.000			
	stat-off	Heating	PTO	kW		0.000			
	mode	ricating	110	N V V		0.049			
Cooling		radation c	ooling)			0.25			
		radation h	-			0.25			
Heating Safety devices	ltem	01	eating)			U.25 High pressure switch			
barety devices	nem								
		02				Fan driver overload protector			
		03				Inverter overload protector			

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Connection pipes; Quantity: 1;

Electrical Specifications			RXYSCQ4TV1	RXYSCQ5TV1	RXYSCQ6TV1		
Power supply	Name			V1			
	Phase		1~				
	Frequency	Hz		50			
	Voltage	V	220-240				
Power supply intake		Both indoor and outdoor unit					
Voltage range	Min.	%	-10				
	Max.	%					
Current	Nominal Cooling	A	19.0 (7)	23.2 (7)		
	running						
	current						
	(RLA)						

Specifications 2

1 - 1 RXYSCO-TV1

Electrical Sp	ecificatio	ns		RXYSCQ4TV1	RXYSCQ5TV1	RXYSCQ6TV1		
Current - 50Hz		Combina- Cooling tion A			-			
	current (RLA)	Combina- Cooling tion B			-			
	Starting c	urrent (MSC) - remark			See note 11			
	Zmax	List		No requirements				
	Minimum Ssc value			Equipment complies with EN/IEC 61000-3-12				
	Minimum	circuit amps (MCA)	A	29.1 (8)				
	Maximum	n fuse amps (MFA)	A		32 (9)			
T	Total over	tal overcurrent amps (TOCA) A			29.1 (10)			
	Full load amps (FLA)	Total	A		0.6 (11)			
Power Perfor-	Power	Combina- 35°C ISO - Full	load		-			
mance	factor	tion B 46°C ISO - Full	load		-			
Wiring connec- tions - 50Hz	For power supply	Quantity			3G			
	For	Quantity			2			
	connec- tion with indoor	with			F1,F2			

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

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

(4) Sound power level is an absolute value final a sound source generates.] (5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.] (6) Refer to refrigerant pipe selection or installation manual] (7) RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB] (8) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.]

(9)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). | (10)TOCA means the total value of each OC set. |

(10) FCA means the local value of each OC Set.] (11) FLA means the nominal running current of the fan | Cooling: T: indoor temp. 26,7°CDB, 19,4°CVB, outdoor temp. 35°CB, AHRI 1230:2010, power input indoor units (duct type) included | Cooling: T3: indoor temp. 26,6°CDB, 19,4°CVB, outdoor temp. 46°CB, ISO15042:2011, power input indoor units (duct type) included | Cooling: T2: indoor temp. 26,6°CDB, 19,4°CVB, outdoor temp. 48°CB, AHRI 1230:2010, power input indoor units (duct type) included | Cooling: T2: indoor temp. 26,6°CDB, 19,4°CVB, outdoor temp. 48°CB, AHRI 1230:2010, power input indoor units (duct type) included | MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current.]

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 with Ssc > minimum Ssc value | 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. | 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. |

Sound values are measured in a semi-anechoic room. I

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

Ssc: Short-circuit power |

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

Options 3

3 - 1 Options

RXYSCQ-TV1

3

VRV4-S Heat pump **Option list**

Nr.	ltem	RXYSCQ4~6TMV1B	RXYSQ4~6T7V1B RXYSQ4~6T8VB(9)	RXYSQ4~6T7Y1B RXYSQ4~6T8YB(9)	RXYSQ8~12TMY1B	RXYSQ6T7Y1B9 RXYSQ6T8Y1B9	RXYSQ6TMYFK
	Refnet header			KHRQ22M29H			
1.	Remet neader	-	-	-	KHRQ22M64H	-	KHRQ22M64H
				KHRQ22	M20T		
П.	Refnet joint	-	-	-	KHRQ22M29T9	-	KHRQ22M29T9
		-	-	-	KHRQ22M64T	-	KHRQ22M64T
1a.	Cool/heat selector (switch)	-	KRC1	9-26	-	KRC19-26	-
1b.	Cool/heat selector (fixing box)	-	KJB1	11A	-	KJB111A	-
1c.	Cool/heat selector (PCB)	-	EBRP2B	-	-	-	-
1d.	Cool/heat selector (cable)	-	-	EKCHSC	-	EKCHSC	-
2.	Drain plug kit	-	EKDI	(04	-	EKDK04	-
3.	VRV configurator			EKPCC	AB*		
4.	Demand PCB			DTA104A	61/62*		
5.	Branch provider - ·2· rooms		BPMK	5967A2		-	-
6.	Branch provider - ·3· rooms		BPMK	5967A3		-	-

Notes

1. All options are kits
2. To mount option 'la', option 'lb' is required.
3. For :RXYSQ4~6T7V1B·
For :RXYSQ4~6T8VBTo operate the cool/heat selector function, options ·la· and ·lc· are both required.
4 For :RXYSQ4~6T7Y1B·
For :RXYSQ4~6T7Y1B·
For :La - and ·ld· are both required.

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Combination table 4

4 - 1 Combination Table

RXYSCQ-TV1

VRV4-S

Heat pump

Indoor unit combination restrictions

Indoor unit combination pattern	·VRV* DX∙ indoor unit	·RA DX· indoor unit	Hydrobox unit	Air handling unit (AHU) $^{(1)}$
·VRV* DX · indoor unit	0	Х	Х	0
·RA DX· indoor unit	х	0	Х	х
Hydrobox unit	Х	Х	Х	Х
Air handling unit (AHU) (1)	0	х	х	0 ₁

0: Allowed

X: Not allowed

Notes 1. O₁

- Combination of ·AHU· only + control box ·EKEQFA· (not combined with ·VRV DX· indoor units)
- → X--control is possible [-EKEXV+EKEQFA*- boxes]. No Variable Refrigerant Temperature control possible.
 → Y--control is possible [-EKEXV+EKEQFA*- boxes]. No Variable Refrigerant Temperature control possible.
- → W-control is possible [·EKEXV+EKEQFA*· boxes]. No Variable Refrigerant Temperature control possible.

- 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 outdoor unit.

2. Combination of $\cdot AHU \cdot$ and $\cdot VRV DX \cdot$ indoor units

 \rightarrow 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
- \rightarrow ·FXMQ_MF· units

Information

- ·VKM· units are considered regular ·VRV DX· indoor units.

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RXYSCQ-TV1

VRV4-S

Heat pump

Indoor unit combination restrictions

Combination table	RXYSCQ4~6TMV1B	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	Х	Х	х
Air handling unit (AHU) (2)	0	0	0	0

O: Allowed

X: Not allowed

Notes

- (2) The following units are considered AHUs:
 - \rightarrow ·EKEXV + EKEQ(MA/FA) + AHU· coil
 - \rightarrow ·Biddle· air curtain
 - \rightarrow ·FXMQ_MF· units

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4 Combination table

4 - 1 Combination Table

RXYSCQ-TV1

4

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

Units in scope: ·FXZQ15A· and ·FXAQ15A·.

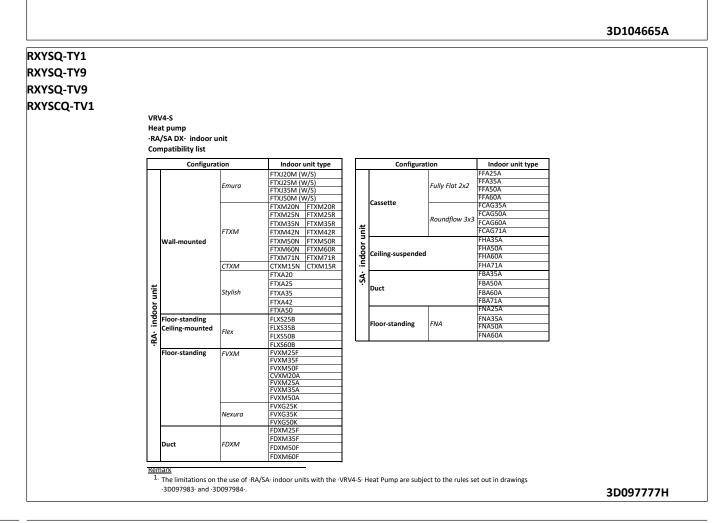
- In case the system contains these indoor units and the total connection ratio (·CR·) ≤ ·100·%: no special restrictions. Follow the restrictions that apply to regular ·VRV DX· indoor units.
- In case the system contains these indoor units and the total connection ratio (-CR-) > ·100-%: special restrictions apply.
 A. When the connection ratio (-CR-) 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 system ≤ ·70·%, and NOT ALL other ·VRV DX· indoor units have

 - ° 125% < CR \leq 130% -> $\ \cdot$ FXZQ15A· and \cdot FXAQ15A· cannot be used.

an individual capacity class > .50.: the restrictions below apply.

Remark

Only the ·15··class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular ·VRV DX· indoor units.



5 Capacity tables

5 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

<u>Capacity table database</u>: lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
 You can access the capacity table viewer here:

https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



 An overview of <u>all software tools</u> that we offer can be found here: <u>https://my.daikin.eu/denv/en_US/home/applications/software-finder.html</u>



5 Capacity tables

5 - 2 Capacity Correction Factor

RXYSCQ-TV1

5

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

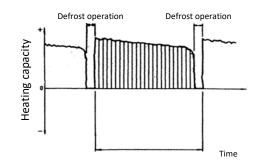
ormula

- 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

[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
RXYSCQ4TMV1B RXYSCQ5TMV1B RXYSCQ5TMV1B RXYSQ4T7V1B RXYSQ4T7V1B RXYSQ5T7V1B RXYSQ6T7V1B RXYSQ6T7V1B RXYSQ6T7V1B RXYSQ6T7Y1B RXYSQ6T7Y1B RXYSQ6T7Y1B RXYSQ6T7Y1B RXYSQ6T8VB RXYSQ6T8VB RXYSQ6T8VB RXYSQ6T8VB RXYSQ6T8YB RXYSQ6T8YB RXYSQ6T8VB9 RXYSQ5T8VB9 RXYSQ6T8VB9 RXYSQ5T8VB9 RXYSQ5T8VB9 RXYSQ5T8VB9 RXYSQ5T8VB9 RXYSQ5T8VB9 RXYSQ5T8YB9 RXYSQ5T8YB9 RXYSQ5T8YB9 RXYSQ5T8YB9 RXYSQ5T8YB9 RXYSQ6T8YB9	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



·1· cycle

Notes

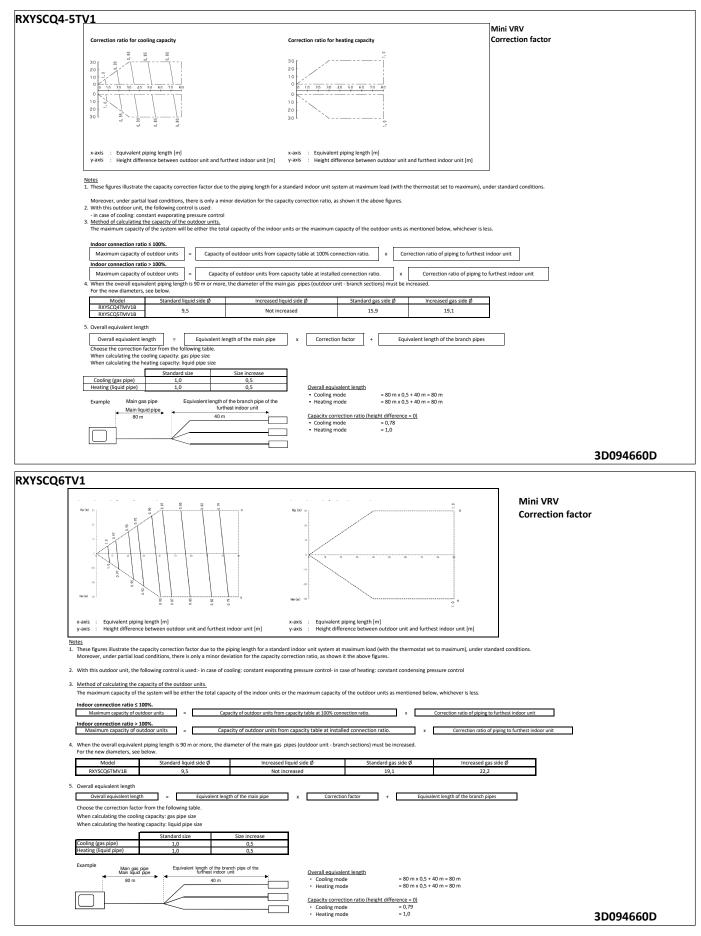
(1) The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

(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.

5

5 Capacity tables

5 - 2 Capacity Correction Factor

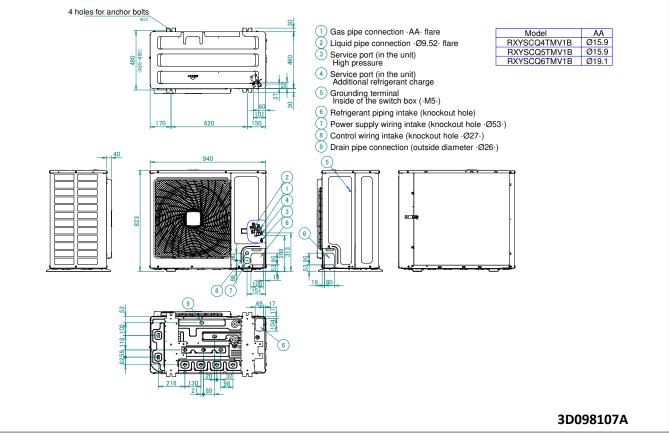


Dimensional drawings 6

Dimensional Drawings 6 - 1

RXYSCQ-TV1

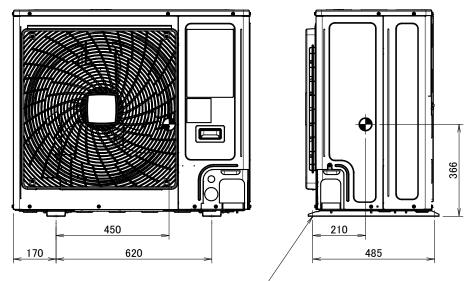
6



7 Centre of gravity

7 - 1 Centre of Gravity

RXYSCQ-TV1



Foundation bolt hole —



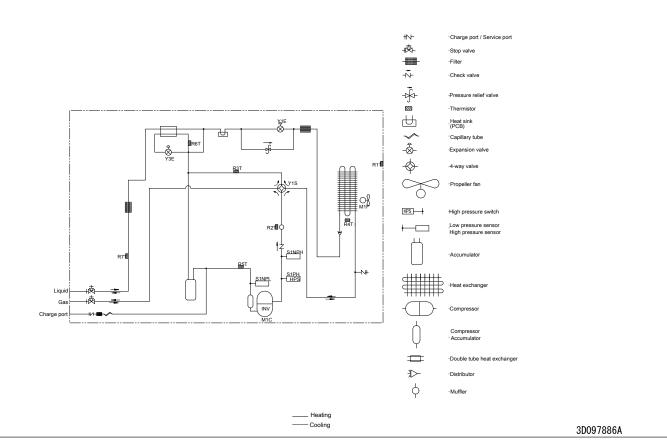


8 Piping diagrams

8 - 1 Piping Diagrams

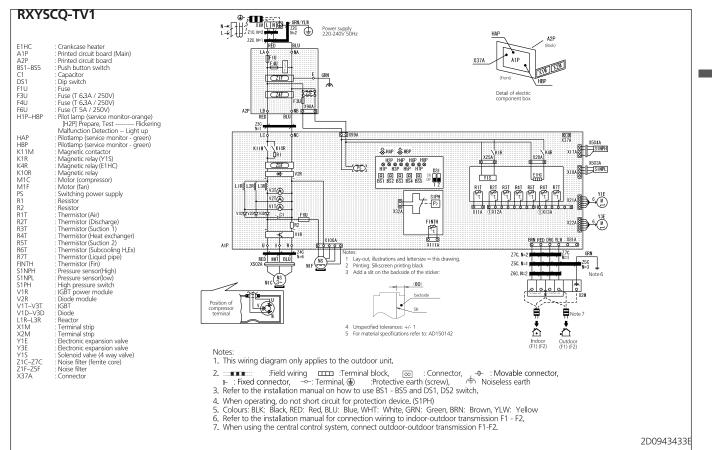
RXYSCQ-TV1

8



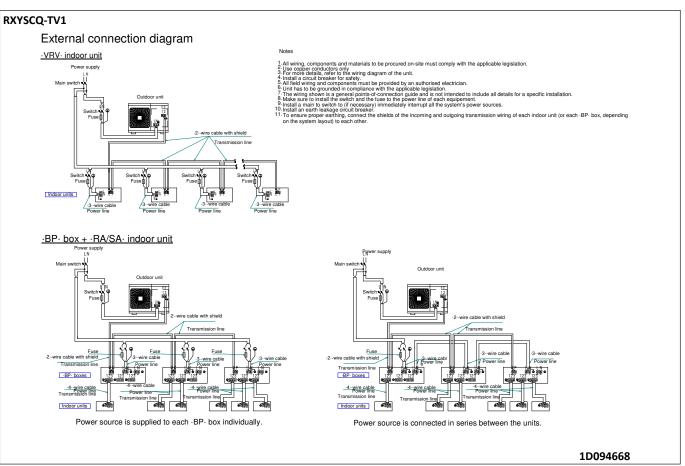
Wiring diagrams 9

9 - 1 Wiring Diagrams - Single Phase



10 External connection diagrams

10 - 1 External Connection Diagrams

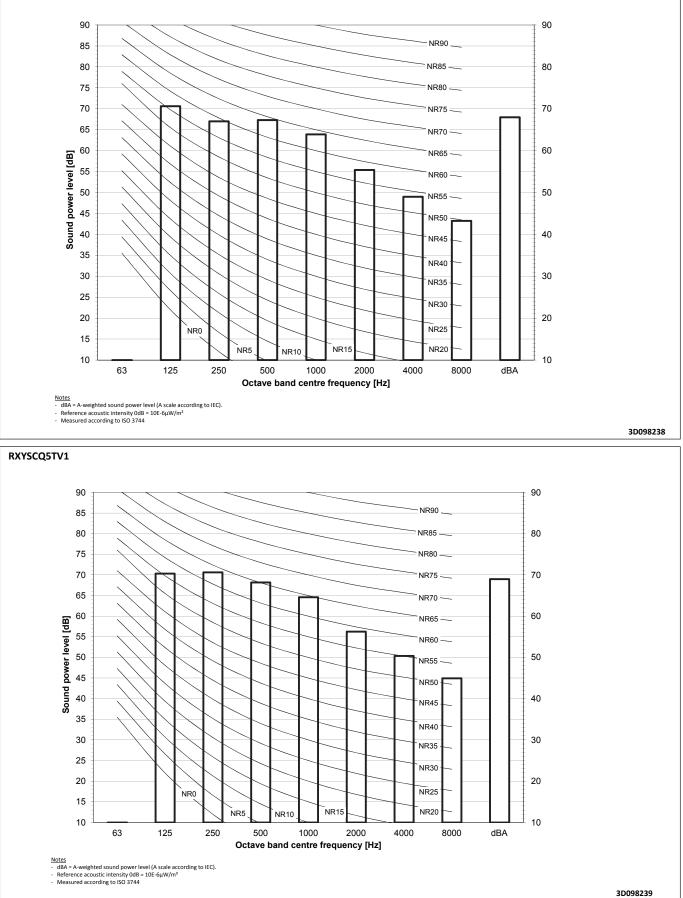


11

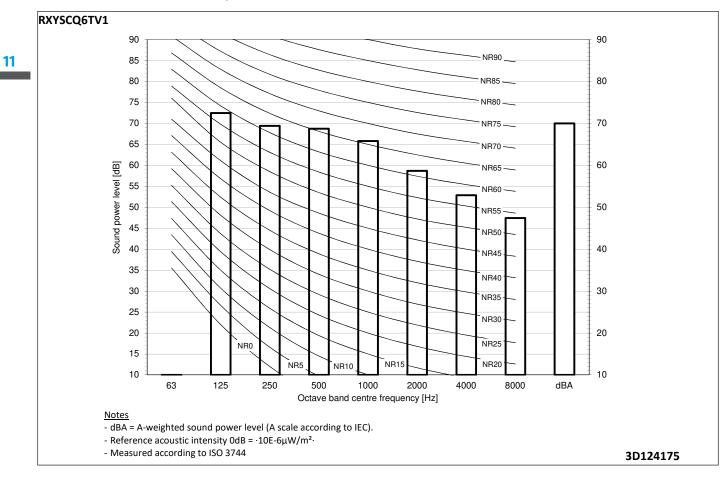
11 Sound data

11 - 1 Sound Power Spectrum

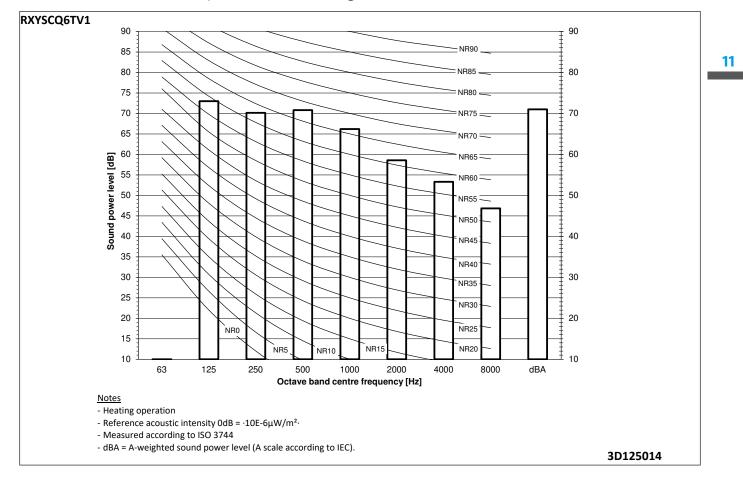




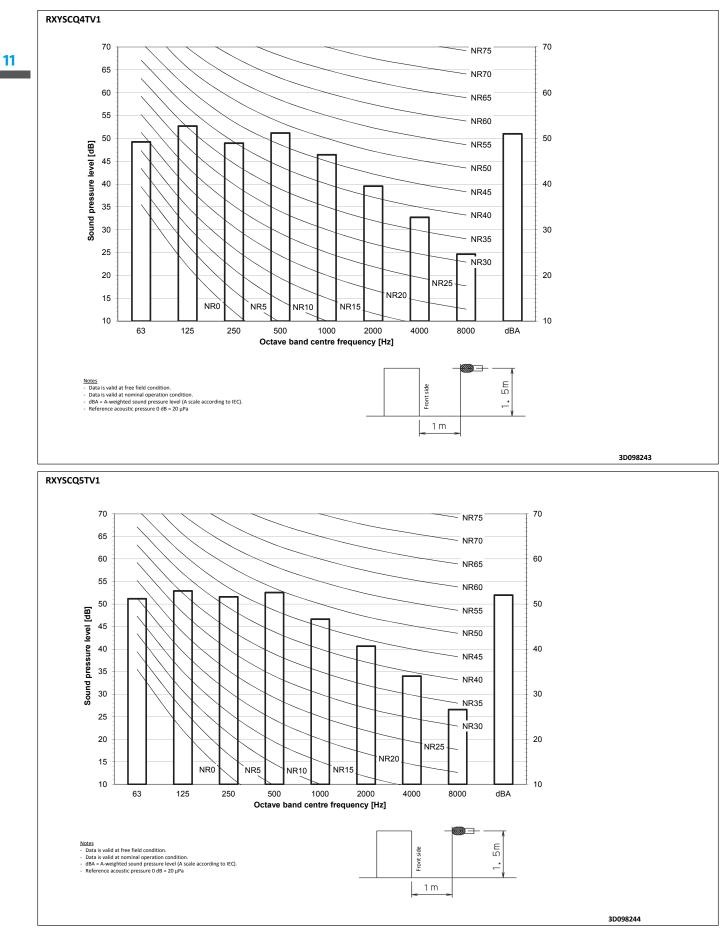
11 - 1 Sound Power Spectrum



11 - 2 Sound Power Spectrum - Heating



11 - 3 Sound Pressure Spectrum

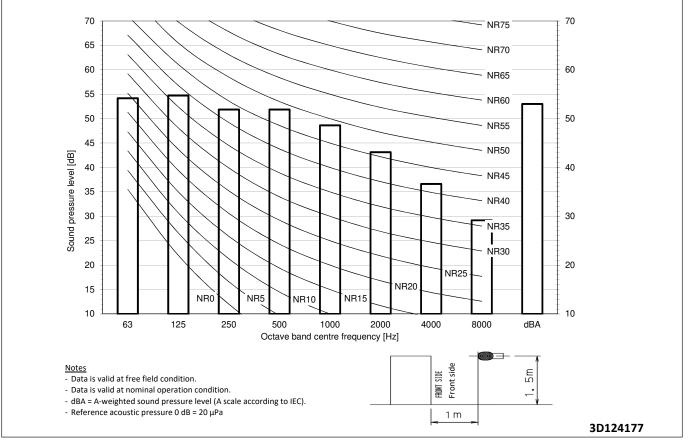


11

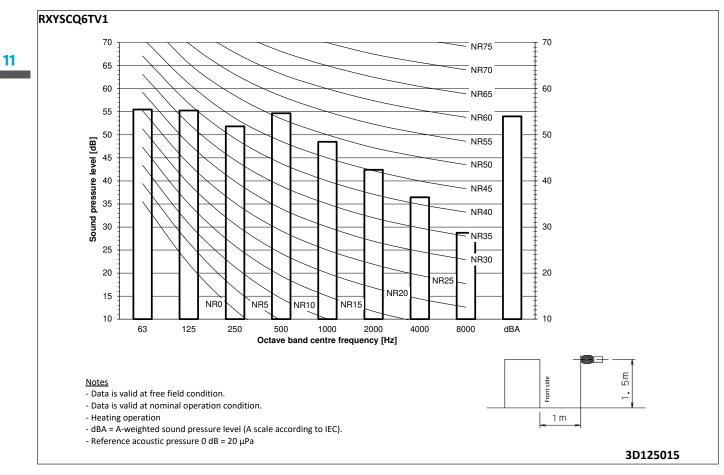
11 Sound data

11 - 3 Sound Pressure Spectrum

RXYSCQ6TV1

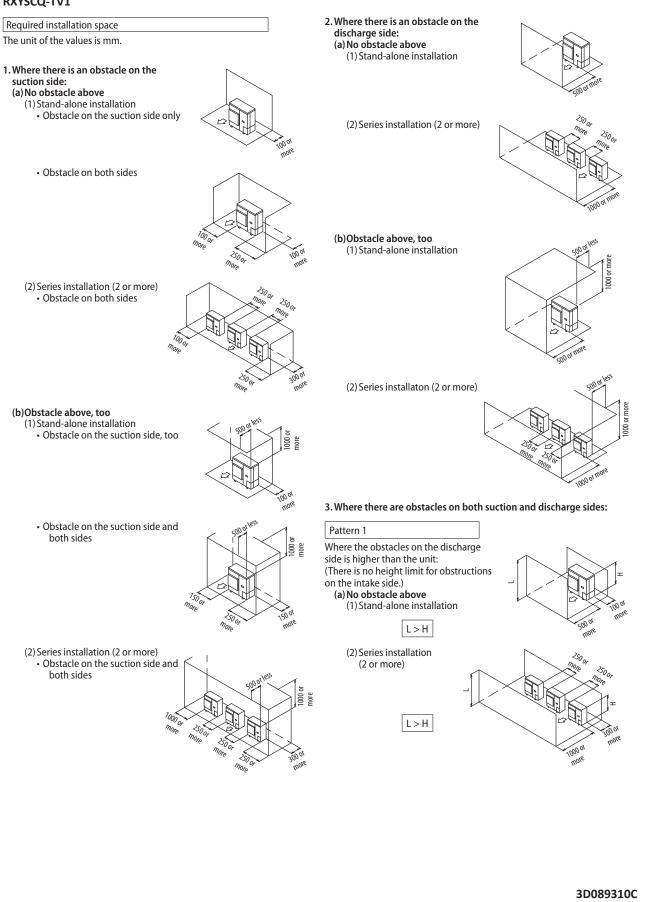


11 - 4 Sound Pressure Spectrum - Heating



12 - 1 Installation Method

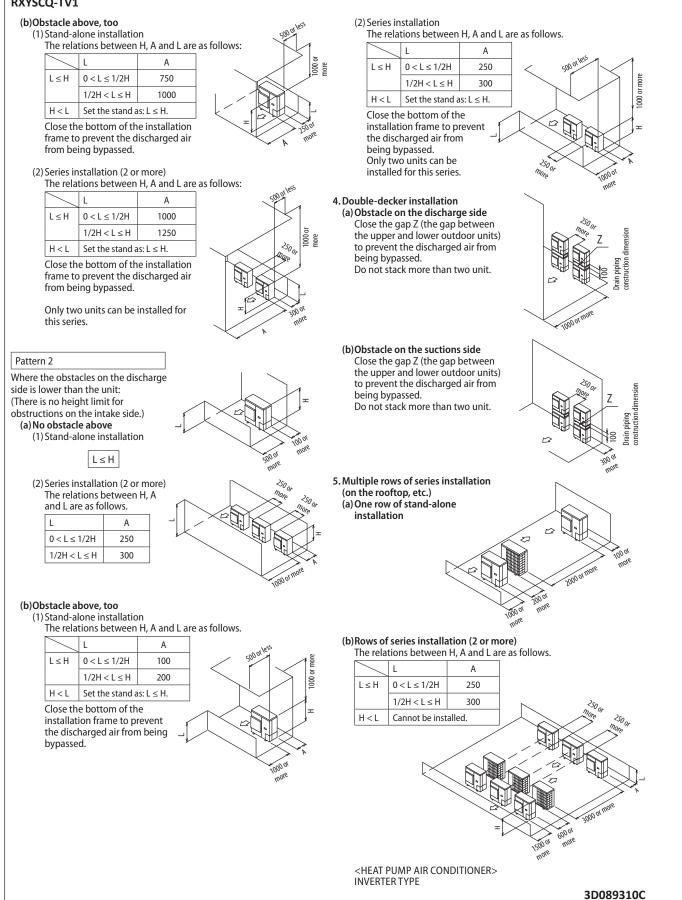
RXYSCQ-TV1





12 - 1 Installation Method

RXYSCQ-TV1



Refrigerant Pipe Selection 12 - 2

RXYSCQ-TV1

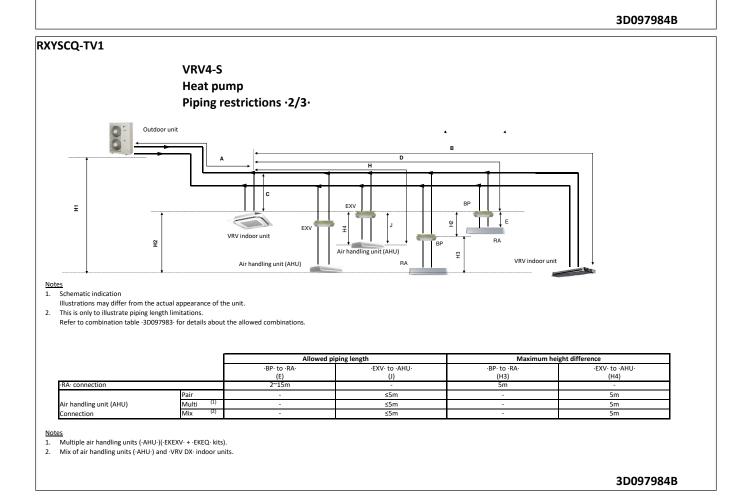
VRV4-S Heat pump Piping restrictions ·1/3·

		Maximum p	iping length	Maximum hei	ght difference	
For the reference draw	For the reference drawing, see page ·2/3·.		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	RXYSCQ4~6TMV1B	70/(90)m	40m	30/(30)m	15m	300m
	RXYSQ4~6T7(V/Y)1B RXYSQ4~6T8(V/Y)B	120/(150)m	40m	50/(40)m	15m	300m
·VRV DX· indoor units only	RXYSQ8TMY1B	100/(130)m	40m	50/(40)m	15m	300m
	RXYSQ10~12TMY1B	120/(150)m	40m	50/(40)m	15m	300m
	RXYSCQ4~6TMV1B	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

- 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.





Refrigerant Pipe Selection 12 - 2

RXYSCQ-TV1

12

VRV4-S

Heat pump

Piping restrictions ·3/3·

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

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

- 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-%
- 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. EKEXV + 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 $\cdot \text{EKEXV-EKEQ} \cdot$ unit.

V. ·VKM· units are considered to be regular ·VRV DX· indoor units.

For information on the operation range, refer to the documentation of the $\cdot V \text{KM} \cdot$ 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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About ventilation applications I. ·FXMQ_MF· units are considered air handling units, following air handling unit limitations.

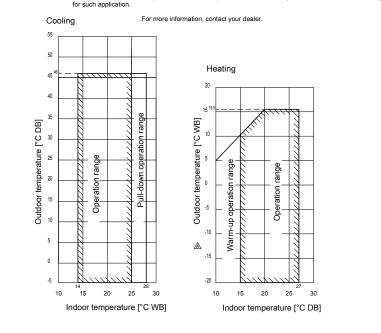
13 Operation range

Notes

13 - 1 Operation Range

RXYSCQ-TV1 RXYSQ-TV1 RXYSQ4-6TY1

- 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.
- 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.



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Appropriate Indoors 14

14 - 1 Appropriate Indoors

	1								
SQ-TYS	9								
SQ-TV									
•									
SCQ-T	V1								
	Recom	mended indoo	or units for ·RXYS	Q*T* AND RXYS	CQ*T*∙ outdoor unit	s			
	 HP	4	5	6	8	10	12		
		3xFXSQ25	4 5460000	2xFXSQ32	4 514 40 50	4 514 40 60	6 51/14050		
		1xFXSQ32	4xFXSQ32	2xFXSQ40	4xFXMQ50	4xFXMQ63	6xFXMQ50		
					÷				
	For detai	s about the allowe	ed combinations, see	he engineering datab	ook.				
	Approp	oriate indoor u	inits for ·RXYSQ*	T* AND RXYSCQ	*T*· outdoor units				
		by ENER LOT			Covered by ·ENER L	OT10·			
		25-32-40-50-63-8	30-100-125		FTXJ25-35-50				
		20-25-32-40-50			FTXA20-25-35-42-50				
		25-32-40-50-63-	80-125		FTXM20N-25N-35N-4				
		32-40-63			FTXM20R-25R-35R-42	R-50R-60R-71R			
		20-25-32-40-50-			CTXM15N				
			53-80-100-125-140		CTXM15R				
		-63-80-100-125-			FLXS25-35-50-60				
		20-25-32-40-50-	63		FVXM25F-35F-50F				
	FXHQ32				FVXG25-35-50				
	FXUQ71				FNA25-35-50-60				
	FXNQ20-25-32-40-50-63				FDXM25-30-50-60 FFA25-35-50-60				
		FXLQ20-25-32-40-50-63							
					FCAG35-50-60-71				
	FXLQ20-		NER LOT21.						
	FXLQ20-	the scope of ·I			FHA35-50-60-71				
	FXLQ20- Outside EKEXV50	e the scope of ·I)-63-80-100-125-	ENER LOT21. 140-200-250 + EKEC	M / EKEQF	FHA35-50-60-71 FBA35-50-60-71				
	FXLQ20- Outside EKEXV50 VKM50-	• the scope of ·I 0-63-80-100-125- 80-100		M / EKEQF	FHA35-50-60-71 FBA35-50-60-71 FVXM25-35-50				
	FXLQ20- Outside EKEXV50- CYVS100	e the scope of ·I)-63-80-100-125- 80-100)-150-200-250		IM / EKEQF	FHA35-50-60-71 FBA35-50-60-71 FVXM25-35-50 CVXM20A				
	FXLQ20- Outside EKEXV50 VKM50- CYVS100 CYVM10	e the scope of ·I)-63-80-100-125- 30-100)-150-200-250 0-150-200-250		M / EKEQF	FHA35-50-60-71 FBA35-50-60-71 FVXM25-35-50				
	FXLQ20- Outside EKEXV50 VKM50- CYVS100 CYVM10	e the scope of ·I)-63-80-100-125- 80-100)-150-200-250		IM / EKEQF	FHA35-50-60-71 FBA35-50-60-71 FVXM25-35-50 CVXM20A				

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