

VRV IV heat pump, optimised for heating Technical data book RXMLQ-T / RXYLQ-T



RXMLQ8T7Y1B RXYLQ10T7Y1B RXYLQ12T7Y1B RXYLQ14T7Y1B RXYLQ16T7Y1B RXYLQ18T7Y1B RXYLQ20T7Y1B RXYLQ22T7Y1B RXYLQ24T7Y1B RXYLQ26T7Y1B RXYLQ28T7Y1B RXYLQ30T7Y1B RXYLQ32T7Y1B RXYLQ34T7Y1B RXYLQ36T7Y1B RXYLQ38T7Y1B RXYLQ40T7Y1B RXYLQ42T7Y1B

Table of contents RXMLQ-T / RXYLQ-T

1	Features RXMLQ-T RXYLQ-T	4 4 5
2	Specifications	6
3	Options	15
4	Combination table	16
5	Capacity tables Capacity Table Legend Capacity Correction Factor	19 19 20
6	Dimensional drawings	24
7	Centre of gravity	25
8	Piping diagrams	26
9	Wiring diagrams Wiring Diagrams - Three Phase	29 29
10	External connection diagrams	30
11	Sound data Sound Power Spectrum Sound Pressure Spectrum	32 32 34
12	Installation Installation Method Fixation and Foundation of Units	36 36 37
13	Operation range	38
14	Appropriate Indoors	39

1 Features 1 - 1 RXMLQ-T

Where heating is priority without compromising on efficiency

- Outdoor unit module for VRV IV C-series heat pump to create systems from 16 up to 42HP
- > Free combination of outdoor units to meet installation space or efficiency requirements



1



1 Features 1 - 2 RXYLO-T

Where heating is priority without compromising on efficiency

- > By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit www.daikin.eu/loop-bydaikin
- Specifically developed for heating operation in low ambient conditions, making it suitable for single source heating
- Stable heating capacity down to -15°C, thanks to vapour injection compressor
- > Extended operation range down to -25°C in heating
- > High reliability in severe conditions, thanks to hot gas bypass circuit in the heat exchanger
- > 15% increased heating capacity at high relative humidity (2°CDB/1°CWB and RH=83%) vs previous model
- Shorter defrost and heat up time, compared to standard VRV heat pump
- 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: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera, ...)

 Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor, ...

- 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
- > Already fully ErP 2021 compliant (LOT 21 Tier 2)
- Free combination of outdoor units to meet installation space or efficiency requirements
- > High external static pressure (up to 78.4Pa) allows indoor installation
- Simplified installation & guaranteed optimal efficiency with automatic charging & testing
- > Easy compliance with F-gas regulation thanks to automated refrigerant containment check
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 500m





1 - 2 RXYLQ-T

Technical Spe		115			RXMLQ8T
PED	Category				Category II
	Most	Name			Compressor
	critical part	Ps*V		Bar*l	459
Dimensions	Unit	Height		mm	1685
		Width		mm	1,240
		Depth		mm	765
	Packed	Height		mm	1820
	unit	Width		mm	1,305
		Depth		mm	860
Neight	Unit			kg	302
	Packed un	it		kg	322
acking	Material				Carton
	Weight			kg	3
Packing 2	Material			Ng	Wood
ucking 2				ka	19
	Weight			kg	
Packing 3	Material				Plastic
	Weight			kg	1
Casing	Colour				Daikin White
-	Material				Painted galvanized steel plate
leat exchanger	Туре				Cross fin coil
ical excitatiget		•			
	Indoor sid				Air
	Outdoor s				Air
	Air flow	Cooling	Rated	m³/h	10,290
	rate	Heating	Rated	m³/h	13,554
an	Quantity				2
	Diameter			mm	541
		Max			
	External static	Max.		Pa	78
	pressure				
an motor	Quantity				2
	Туре				DC motor
	Output			W	750
Compressor	Quantity				1
compressor					
	Туре				Hermetically sealed scroll compressor
	Crankcase	heater		W	33
Operation range	Cooling	Min.		°CDB	-5
		Max.		°CDB	43
	Heating	Min.		°CWB	-25
Operation range	Heating	Max.		°CWB	16
				dBA	
Sound power level		Nom.			75.0 (1)
Sound pressure evel	Cooling	Nom.		dBA	55.0 (2)
Refrigerant	Туре				R-410A
-	GWP				2,0875
	Charge			TCO2Eq	246
	Charge			kg	118
	Туре				Synthetic (ether) oil FVC68D
Piping connections		Туре			Braze connection
		OD		mm	9.5
	Gas	Туре			Braze connection
	Jus	OD		mm	19.1
	Tables		A . t 1	mm	
	Total piping	System	Actual	m	500 (3)
	length Level	OU - IU	Outdoor unit in	m	50
	difference		highest position		
			Indoor unit in	m	40
			highest position		
			ingriest position		20
		IU - IU		m	30
Defrost method					Reversed cycle
Capacity control	Method				Inverter controlled
ndication if the hea	ater is equir	pped with a	a supplementary h	eater	no
Supplementary neater	Back-up	Heating	elbu	kW	0.0
	capacity	<i>c i</i> :	DCV	1.144	
Power	Crankcase		PCK	kW	0.000
consumption in	heater	Heating	PCK	kW	0.0430
other than active	mode	-			
	Off mode	Coolina	POFF	kW	0.0380
mode		Heating	POFF	kW	0.0380
	Standby				
	standby	Cooling	PSB	kW	0.0380
	,		DCD	kW	0.0380
	mode	Heating	PSB	KVV	0.0000
	,	Heating Cooling		kW	0.0140
	mode		PSB PTO PTO		

1 - 2 RXYLQ-T

Technical Sp	ecificati	ions	RXMLQ8T
Heating	Cdh (De	gradation heating)	0.25
Safety devices	Item	01	High pressure switch
		02	Fan driver overload protector
		03	Inverter overload protector
		04	PC board fuse

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 2;

Standard accessories: Connection pipes; Quantity: 25;

Electrical Sp	pecifications		RXMLQ8T			
Power supply	Name		Y1			
	Phase		3N~			
	Frequency	Hz	50			
	Voltage	V	380-415			
Power supply intake			Both indoor and outdoor unit			
Voltage range	Min.	%	-10			
	Max.	%	10			
Current - 50Hz	Starting current (MSC) - remark		See note 8			
	Zmax List		No requirements			
	Minimum Ssc value	kVa	5,638 (4)			
	Minimum circuit amps (MCA)	A	16.1 (5)			
	Maximum fuse amps (MFA)	A	20 (6)			
	Total overcurrent amps (TOCA)	A	42.5 (7)			
	Full load amps Total	A	15 (8)			
	(FLA)					
Wiring	For power Quantity		5G			
connections - 50	Hz supply					
	For connection Quantity		2			
	with indoor Remark		F1F2			

(1)Sound power level is an absolute value that a sound source generates. | (2)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |

(3)Refer to refrigerant pipe selection or installation manual | (4)In accordance with EV/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 \geq minimum Ssc value | (5)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. | (6)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

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

(8)FLA means the room value of value of each OC set.] (8)FLA means the nominal running current of the fan | Cooling: indoor temp. 2^{or}CDB, 19^{cr}CWB; outdoor temp. 35^{or}CDB; equivalent piping length: 7.5m (horizontal); level difference: 0m | Heating: indoor temp. 20^{or}CDB; outdoor temp. 7^{or}CDB, 6^{or}CWB; equivalent refrigerant piping: 7.5m; level difference: 0m | Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (70% <= CR <= 130%) |

RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB [MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always \leq max. running current.

1 - 2 RXYLQ-T

Technical Spe				RXYLQ10T	RXYLQ12T	RXYLQ14T			
System Recommended coi		nit module 1		RXYLQ10T 4 x FXMQ63P7VEB	RXYLQ12T 6 x FXMQ50P7VEB	RXYLQ14T 1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB			
Cooling capacity	Prated,c		kW	28.0 (1)	33.5 (1)	40.0 (1)			
Heating capacity	Nom.	6°CWB	kW	28.00 (2)	33.50 (2)	40.00 (2)			
neating capacity		OCWB							
	Prated,h	(2014)	kW	315	37.5	45.0			
	Max.	6°CWB	kW	315 (2)	37.5 (2)	45.0 (2)			
Power input - 50Hz	-	Nom. 6°CWB	kW	7.13 (2)	7.85 (2)	10.26 (2)			
COP at nom.	6°CWB		kW/kW	3.93	4.27	3.90			
capacity									
SCOP				3.68	3.51	3.50			
SEER				6.36	6.93	6.83			
ηs,c			%	251.4	274.4	270.1			
ηs,h			%	144.3	137.6	137.1			
Space cooling	A Condition (35%	EERd		3.18	3.53	3.18			
	- 27/19)	Pdc	kW	28.0	33.5	40.0			
	B Condition (30°C			4.87	5.11	5.01			
	- 27/19)	Pdc	kW	20.6	24.7	29.5			
	C Condition (25%			8.09	8.41	7.00			
			1.14/						
	- 27/19)	Pdc	kW	13.5	15.9	18.9			
	D Condition	EERd		9.33	112	16.1			
	(20°C - 27/19)	Pdc	kW	9.03	9.30	10.4			
Space heating	TBivalent	COPd (declared COP)		2.33	2.11	184			
(Average climate)		Pdh (declared heating cap)	kW	276	33.2	39.8			
		Tbiv (bivalent temperature)	°C	-6.8		-7.0			
	TOL	COPd (declared COP)		2.58	2.38	2.47			
		Pdh (declared heating cap)	kW	19.7	23.5	30.6			
		Tol (temperature operating limit)			-10				
	A	COPd (declared COP)		2.38	2.11	184			
		Pdh (declared heating cap)	L\\/	2.38	2.11 33.2	39.8			
	(-7°C)		KVV						
	В	COPd (declared COP)		3.48	3.41	3.16			
	Condition (2°C)	Pdh (declared heating cap)	kW	17.0	20.2	24.2			
	С	COPd (declared COP)		5.06	4.93	5.92			
	Condition (7°C)	Pdh (declared heating cap)	kW	10.9	13.1	15.9			
	D	COPd (declared COP)		7.15	5.74	7.45			
		Pdh (declared heating cap)	kW	7.75	8.98	8.14			
Capacity range			HP	10	12	14			
PED	Category				Category II				
PED	Most critical	Name Ps*V	Bar*l	Compressor 459					
Maximum a l	part	blo indoor			(4/2)				
Maximum number		able indoor units		475	64 (3)				
Indoor index	Min.			175	210	245			
connection	Nom.			250	300	350			
	Max.			325	390	455			
Dimensions	Unit	Height	mm		1685				
		Width	mm		1,240				
		Depth	mm		765				
	Packed	Height	mm		1820				
	unit	Width	mm		1,305				
		Depth	mm		860				
Weight	Unit	5500	kg		302				
neigin	Packed un	it			302				
Dacking		n	kg						
Packing	Material		1		Carton				
	Weight		kg		3				
Packing 2	Material				Wood				
	Weight		kg		19				
Packing 3	Material			Plastic					
	Weight		kg	1					
Casing	Colour		-	Daikin White					
2	Material				Painted galvanized steel plate				
Heat exchanger	Туре				Cross fin coil				
icat exchanger	Indoor sid	0							
					Air				
C	Outdoor s		m³/h	Air					
		(opling Uptod	m²/h	$\alpha \circ \alpha$	13	5,554			
	Air flow rate	Cooling Rated Heating Rated	m³/h	10,290 13,554	14,940	17,280			

1 - 2 RXYLQ-T

Technical Spe		ns			RXYLQ10T	RXYLQ12T	RXYLQ14T			
Fan	Quantity					2				
	Diameter			mm		541				
	External static	Max.		Pa		78				
F	pressure					2				
Fan motor	Quantity					2				
	Туре			14/		DC motor				
<u> </u>	Output			W		750				
Compressor	Quantity					1				
	Туре	1 t		14/		Hermetically sealed scroll compress	or			
0	Crankcase			W		33				
Operation range	Cooling	Min.		°CDB		-5				
Operation range	Cooling	Max.		°CDB °CWB	43					
	Heating	Min.			-25					
<u> </u>	c li	Max.		°CWB	770 (4)	16				
Sound power level		Nom.		dBA	77.0 (4)	810				
Sound pressure level	Cooling	Nom.		dBA	56.0 (5)	59.0) (5)			
Refrigerant	Туре					R-410A				
	GWP					2,087.5				
	Charge			TCO2Eq	24.6					
	Charge			kg	118					
Refrigerant oil	Туре					Synthetic (ether) oil FVC68D				
Piping connections	5 Liquid	Туре				Braze connection				
		OD		mm	9.5	12	2.7			
	Gas	Туре				Braze connection				
		OD		mm	22.2	28	8.6			
len Le	Total piping length	System	Actual	m		500 (6)				
	Level difference	OU - IU	Outdoor unit highest positi			50				
	unterence		Indoor unit in	m		40				
			highest positi			40				
		IU - IU	nightest positi	m		30				
Defrost method		10-10				Reversed cycle				
Capacity control	Method					Inverter controlled				
Indication if the hea		aned with	asunnlementar	v heater		no				
Supplementary	Back-up	Heating	elbu	kW		0.0				
heater	capacity	neating	cibu			0.0				
Power	Crankcase	Cooling	РСК	kW		0.000				
consumption in	heater	Heating	PCK	kW		0.0430				
other than active	mode					0.0 100				
mode	Off mode	Coolina	POFF	kW		0.0380				
-		Heating	POFF	kW		0.0380				
	Standby	Cooling	PSB	kW		0.0380				
	mode	Heating	PSB	kW		0.0380				
	Thermostat-off	Cooling	PTO	kW		0.0140				
	mode	Heating	PTO	kW		0.0610				
Cooling	Cdc (Degr					0.25				
Heating	Cdh (Degr					0.25				
Safety devices	Item	01	ading/			High pressure switch				
Juicty devices	nem	02				Fan driver overload protector				
		02				Inverter overload protector				
		00		1		mychter ovenoau protector				

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 2;

Standard accessories: Connection pipes; Quantity: 25;

Electrical Sp	ecifications		RXYLQ10T	RXYLQ12T RXYLQ1				
Power supply	Name			Y1				
	Phase		3N~					
	Frequency	Hz	50					
	Voltage	V	380-415					
Power supply int	ake		Both indoor and outdoor unit					
Voltage range	Min.	%	-10					
	Max.	%	10					

1 - 2 RXYLQ-T

Electrical Sp	ecifications		RXYLQ10T	RXYLQ12T	RXYLQ14T		
Current - 50Hz	Starting current (MSC) - remark			See note 8			
	Zmax List			No requirements			
	Minimum Ssc value	kVa		5,638 (7)			
	Minimum circuit amps (MCA)	A	22.0 (8)	24.0 (8)	27.0 (8)		
	Maximum fuse amps (MFA)	A	25 (9)	32 (9)			
	Total overcurrent amps (TOCA)	A	42.5 (10)				
	Full load amps Total	A		15 (11)			
	(FLA)						
Wiring	For power Quantity		5G				
connections - 50	Hz supply						
	For connection Quantity		2				
	with indoor Remark		F1F2				

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m (horizontal); 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 connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (70% <= CR <= 130%) | (4)Sound power level is an absolute 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)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 \geq minimum Ssc value | (8)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. | (9)IMCA 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. |

(U)FLA means the nominal running current of the fan | RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB | MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current.

Technical spe	cificatior	ns System		RXYLQ16T	RXYLQ18T	RXYLQ20T	RXYLQ22T	RXYLQ24T
- System	Outdoor u	nit module 1		RXMLQ8T		RXYLQ10T		RXYLQ12T
	Outdoor u	nit module 2		RXM	LQ8T	RXYLQ10T	RXYLO	Q12T
Recommended cor	nbination			4 x FXMQ63P7VEB +	3 x FXMQ50P7VEB +	2 x FXMQ50P7VEB +	6 x FXMQ50P7VEB +	4 x FXMQ50P7VEB + 4
				2 x FXMQ80P7VEB	5 x FXMQ63P7VEB	6 x FXMQ63P7VEB	4 x FXMQ63P7VEB	x FXMQ63P7VEB + 2 >
Cooling capacity	Prated,c		kW	44.8 (1)	50.4 (1)	56.0 (1)	615(1)	67.0 (1)
Heating capacity	Prated,h		kW	50.0	56.5	63.0	69.0	75.0
5.1.1	Max.	6°CWB	kW	50.0 (2)	56.5 (2)	63.0 (2)	69.0 (2)	75.0 (2)
SCOP				3.52	3.59	3.68	3.58	3.51
SEER				6.62	6.47	6.36	6.65	6.93
ןs,c			%	261.8	255.7	251.4	263.0	274.4
ןs,h			%	138.0	140.5	144.3	140.3	137.6
Space cooling	A Condition (35°C	EERd		3.55	3.33	3.18	3.36	3.53
	- 27/19)	Pdc	kW	44.8	50.4	56.0	61.5	67.0
	B Condition (30°C			4.66	4.78	4.87	5.00	5.11
	- 27/19)	Pdc	kW	33.0	37.1	41.3	45.3	49.4
	C Condition (25°C			9.13	8.52	8.09	8.26	8.41
	- 27/19)	Pdc	kW	212	24.1	27.0	29.4	318
	D Condition	EERd		9.60	9.46	9.33	10.2	11.2
	(20°C - 27/19)	Pdc	kW	17.4	17.7	18.1	183	18.6
pace heating	()))))	COPd (declared COP)			2.33		2.21	2.11
(Average climate)		Pdh (declared heating cap)	kW	47.1	512	55.3	60.8	66.3
		Tbiv (bivalent temperature)		-8.5	0.2	-6.8	0010	-7.0
	TOL	COPd (declared COP)	-	2.55	2.57	2.58	2.47	2.38
			kW	37.5	38.5	39.5	43.2	47.0
		Tol (temperature operating limit)			00.5	-10	1012	
	A	COPd (declared COP)		2.47	2.42	2.38	2.22	2.11
			1.14/		48.3	52.3	59.3	66.3
	(-7°C)	Pdh (declared heating cap)	KVV	44.2		52.3	59.3	66.3
	В	COPd (declared COP)		3.22	3.36	3.48	3.44	3.41
	Condition (2°C)	Pdh (declared heating cap)	kW	26.9	30.4	33.9	37.2	40.4
	С	COPd (declared COP)		4.79	4.94	5.06	4.99	4.93
	Condition (7°C)	Pdh (declared heating cap)	kW	17.3	19.6	218	24.0	26.2
	D	COPd (declared COP)		6.38	6.76	7.15	6.32	5.74
	Condition (12°C)	Pdh (declared heating cap)	kW	14.6	15.0	15.5	16.7	18.0
Capacity range	/		HP	16	18	20	22	24
PED	Category					Category II		
/aximum number		ble indoor units				64 (3)		
ndoor index	Min.			280	315	350	385	420
ndoor index	Nom			400	450	E00	EEO	(00
ndoor index connection	Nom.			400 520	450 585	500 650	550 715	600 780
	Max.	New						
Sound power level	J	Nom.	dBA	78.0 (4)	79.0 (4)	80.0 (4)	82.0 (4)	84.0 (4)
Sound pressure level	Cooling	Nom.	dBA	58.0 (5)	59.0	(5)	610 (5)	62.0 (5)

RXYLQ-T 1 - 2

Technical spe	cificatio	ns Syste	m		RXYLQ16T	RXYLQ18T	RXYLQ20T	RXYLQ22T	RXYLQ24T			
Refrigerant	Туре						R-410A					
-	GWP					2.087.5						
Refrigerant oil	Туре					Synthetic (ether) oil FVC68D						
Piping connection	s Liquid	Туре					Braze connection					
		OD		mm	12.7	12.7 15.9						
	Gas	Туре					Braze connection					
		OD mm				28	8.6		34.9			
	Total piping length	System	Actual	m			500 (6)					
	Level difference	OU - IU	Outdoor unit in highest positior				50					
			Indoor unit in highest positior	m 1			40					
	IU - IU						30					
Defrost method							Reversed cycle					
Capacity control	Method						Inverter controlled					
Indication if the he	ater is equip	ped with	a supplementary	heater	no							
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0							
Power	Crankcase	Cooling	PCK	kW			0.000					
consumption in other than active	heater mode	Heating	РСК	kW	0.0860							
mode	Off mode	Cooling	POFF	kW			0.0760					
		Heating	POFF	kW			0.0760					
	Standby	Cooling	PSB	kW			0.0760					
	mode	Heating	PSB	kW			0.0760					
	Thermostat-off	Cooling	РТО	kW	0.0280							
	mode	Heating	РТО	kW			0.1220					
Cooling	Cdc (Degra	adation co	oling)				0.25					
Heating	Cdh (Degr	adation he	eating)				0.25					

Technical spe	cification	ns System		RXYLQ26T	RXYLQ28T	RXYLQ30T	RXYLQ32T	RXYLQ34T	
System	Outdoor u	nit module 1		RXYLQ12T	RXYLQ14T		RXYLQ10T		
	Outdoor u	nit module 2		RXYL	Q14T	RXYLQ10T RXY			
	Outdoor u	nit module 3		-		RXYLQ10T	RXYL	Q12T	
Recommended combination				7 x FXMQ50P7VEB +	6 x FXMQ50P7VEB + 4	9 x FXMQ50P7VEB +	8 x FXMQ63P7VEB +	3 x FXMQ50P7VEB + 9	
				5 x FXMQ63P7VEB	x FXMQ63P7VEB + 2 x	5 x FXMQ63P7VEB	4 x FXMQ80P7VEB	x FXMQ63P7VEB + 2 x	
Cooling capacity	Prated,c		kW	73.5 (1)	80.0 (1)	84.0 (1)	89.5 (1)	95.0 (1)	
Heating capacity	Prated,h		kW	82.5	90.0	94.5	101	107	
	Max.	6°CWB	kW	82.5 (2)	90.0 (2)	94.5 (2)	100.5 (2)	106.5 (2)	
SCOP				3.5	0	3.68	3.61	3.56	
SEER				6.84	6.83	6.36	6.55	6.74	
ηs,c			%	270.8	270.1	251.4	259.1	266.8	
ηs,h			%	132	7.1	144.3	141.6	139.2	
Space cooling	A Condition (35°C	EERd		3.33	:	3.18	3.30	3.42	
	- 27/19)	Pdc	kW	73.5	80.0	84.0	89.5	95.0	
	B Condition (30°C	EERd		5.06	5.01	4.87	4.96	5.04	
	- 27/19)	Pdc	kW	54.2	59.0	61.9	66.0	70.0	
	C Condition (25°C	EERd		7.58	7.00	8.09	8.21	8.31	
	- 27/19)	Pdc	kW	34.8	37.8	40.5	42.9	45.3	
	D Condition	EERd		13.3	16.1	9.33	9.89	10.5	
	(20°C - 27/19)	Pdc	kW	19.7	20.8	27.1	27.4	27.6	
Space heating	TBivalent	COPd (declared COP)		1.95	184	2.33	2.24	2.17	
(Average climate)		Pdh (declared heating cap)	kW	73.0	79.6	82.9	88.4	94.0	
		Tbiv (bivalent temperature)	°C	-7.	-7.0		-6.8		
	TOL	COPd (declared COP)		2.43	2.47	2.58	2.50	2.44	
		Pdh (declared heating cap)	kW	54.1	61.2	59.2	63.0	66.7	
		Tol (temperature operating limit)	°C			-10			
	A	COPd (declared COP)		1.95	184	2.38	2.27	2.18	
	Condition (-7°C)	Pdh (declared heating cap)	kW	73.0	79.6	78.5	85.5	92.5	
	В	COPd (declared COP)		3.27	3.16	3.48	3.45	3.43	
	Condition (2°C)	Pdh (declared heating cap)	kW	44.4	48.5	50.9	54.1	57.3	
	С	COPd (declared COP)		5.43	5.92	5.06	5.01	4.97	
	Condition (7°C)	Pdh (declared heating cap)	kW	29.0	318	32.7	34.9	37.1	
	D	COPd (declared COP)		6.48	7.45	7.15	6.56	6.10	
	Condition (12°C)	Pdh (declared heating cap)	kW	17.1	16.3	23.3	24.5	25.7	
Capacity range			HP	26	28	30	32	34	
PED	Category					Category II			



1 - 2 RXYLQ-T

Technical spe	cificatio	ns Syste	m		RXYLQ26T	RXYLQ28T	RXYL	Q30T	RXYLQ32	T RXYLQ341
Maximum number	of connect	able indoo	r units				64	(3)		
Indoor index	Min.				455	490	52	25	560	595
connection	Nom.				650	700	7	50	800	850
	Max.				845	910	9	75	1040	1,105
Sound power level	Cooling	Nom.		dBA	84.0	(4)	82.0		84.0 (4)	85.0 (4)
Sound pressure	Cooling	Nom.		dBA	62.0	()	610		62.0 (5)	63.0 (5)
Refrigerant	Туре						R-4	10A		
	GWP						2,08	37.5		
Refrigerant oil	Туре					Sy	nthetic (eth	er) oil FVC	68D	
Piping connections	s Liquid	Туре					Braze co	nnection		
		OD		mm			19	.1		
	Gas	Туре					Braze co	nnection		
		OD mm					34	.9		
	Total piping length	System	Actual	m			500			
	Level	OU - IU	Outdoor unit in highest position				5	0		
			Indoor unit in highest position	m	40					
		IU - IU	ingliest position	m			3	0		
Defrost method							Reverse	d cycle		
Capacity control	Method				Inverter controlled					
Indication if the he	ater is equi	pped with	a supplementary h	neater			n	0		
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0					
Power	Crankcase	Coolina	РСК	kW			0.0	00		
consumption in	heater	Heating	РСК	kW	0.08	60			0.1290	
other than active	mode									
mode	Off mode	Cooling	POFF	kW	0.07	60			0.1140	
		Heating	POFF	kW	0.07	60			0.1140	
	Standby	Cooling	PSB	kW	0.07	60			0.1140	
	mode	Heating	PSB	kW	0.07	60			0.1140	
	Thermostat-off	Cooling	PTO	kW	0.02	80			0.0420	
	mode	Heating	РТО	kW	0.12	20			0.1830	
Cooling	Cdc (Degr	adation co	oling)		0.25					
Heating	Cdh (Degi	radation he	eating)				0.	25		
Technical spe	cificatio	ns Svste	m		RXYLQ36T	RXYLC)38T	RX	(LQ40T	RXYLQ42T
System		unit module				RXYLC	-			RXYLQ14T
-,		unit modul			RXYLQ12T RXYLQ14T					
		unit module	-		RXYLQ12T			RX	YLQ14T	
Recommended cor					2 x FXMQ50P7VEB + 10 x FXMQ63P		7VFR + 10 v		-	12 x FXMQ63P7VEB +
iccommended (OI	nomation									12 AT AIVIQUOT / VED +

	Outdoor u	nit module 2		RXYI	_Q12T	RXYI	_Q14T		
	Outdoor u	nit module 3		RXYLQ12T		RXYLQ14T			
Recommended co	mbination			2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB +	6 x FXMQ50P7VEB + 10 x	9 x FXMQ50P7VEB + 9 x	12 x FXMQ63P7VEB + 4 x		
				2 x FXMQ80P7VEB	FXMQ63P7VEB	FXMQ63P7VEB	FXMQ80P7VEB		
Cooling capacity	Prated,c		kW	100.5 (1)	107.0 (1)	113.5 (1)	120.0 (1)		
Heating capacity	Prated,h		kW	118	120	128	135		
	Max.	6°CWB	kW	112.5 (2)	120.0 (2)	127.5 (2)	135.0 (2)		
SCOP				3.51		3.50			
SEER				6.93	6.86	6.83			
ηs,c			%	274.4	271.6	270.3	270.1		
ηs,h			%	137.6		137.1			
Space cooling	A Condition (35°C	EERd		3.53	3.39	3.28	3.18		
	- 27/19)	Pdc	kW	101	107	114	120		
	B Condition (30°C	EERd		5.11	5.07	5.04	5.01		
	- 27/19)	Pdc	kW	74.1	78.9	83.7	88.5		
	C Condition (25°C	EERd		8.41	7.82	7.37	7.00		
	- 27/19)	Pdc	kW	47.7	50.7	53.7	56.7		
	D Condition	EERd		11.2	125	14.1	16.1		
	(20°C - 27/19)	Pdc	kW	279	29.0	30.1	313		

1 - 2 RXYLQ-T

Technical spe	cificatio	ns Syste	m		RXYLQ36T	RXYLC	238T RX	YLQ40T	RXYLQ42T			
Space heating	TBivalent		clared COP)		2.11	2.00		1.91	184			
Average climate)			ared heating cap		99.5	106		1 B	119			
			alent temperatur	e) °C			-7.0					
	TOL		clared COP)		2.38	2.4		2.44	2.47			
			ared heating cap		70.5	77£		84.7	918			
		Tol (temp limit)	erature operatin	ig °C			- 10					
	A		clared COP)		2.11	2.00	0	1.91	184			
			ared heating cap	a) kW	99.5	106		18	119			
	(-7°C)	i un (acci	area nearing cap	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
	В		clared COP)		3.41	3.3	1	3.23	3.16			
	Condition (2°C)	Pdh (decl	ared heating cap	o) kW	60.6	64.0	6	68.7	72.7			
	<u>()</u>	COPd (de	clared COP)		4.93	5.26	5	5.59	5.92			
			ared heating cap	o) kW	39.3	42.		44.9	47.7			
	(7°C)											
	D		clared COP)		5.74	6.18		6.82	7.45			
		Pdh (decl	ared heating cap	o) kW	26.9	26.	1	25.3	24.4			
-	(12°C)											
Capacity range	Catar			HP	36	38		40	42			
PED Maximum number	Category	ablaindea	runite				Category II 64 (3)					
ndoor index	Min.				630	665		700	735			
connection	Nom.				900	950		1,000	1020			
Connection	Max.				1,170	1,23		1,000	1,365			
Sound power level		Nom.		dBA	1,170	125	86.0 (4)	1,500	000			
Sound pressure	Cooling	Nom.		dBA			64.0 (5)					
evel	cooning	NOIII.		UDA			04.0 (3)					
Refrigerant	Туре						R-410A					
	GWP						2,087.5					
Refrigerant oil	Туре					Sy	nthetic (ether) oil FVC	.68D				
piping connections	s Liquid	Туре			Braze connection							
		OD		mm			19.1					
	Gas	Туре					Braze connection					
		OD		mm			41.3					
	Total piping length	System	Actual	m	500 (6)							
	Level	OU - IU	Outdoor unit i	n m			50					
	difference		highest positio	on								
			Indoor unit in	m			40					
			highest positio	on								
		IU - IU		m			30					
Defrost method							Reversed cycle					
Capacity control	Method						Inverter controlled					
Indication if the he							no					
Supplementary	Back-up	Heating	elbu	kW			0.0					
neater	capacity											
Power	Crankcase		РСК	kW			0.000					
consumption in	heater	Heating	РСК	kW			0.1290					
other than active	mode	Casting	DOLL	1.147			0 11 4 0					
mode	Off mode		POFF	kW			0.1140					
	Charles III	Heating	POFF	kW			0.1140					
	Standby	Cooling Heating	PSB	kW			0.1140					
	mode Thermostat-off	Cooling	PSB	kW			0.1140					
			PTO	kW								
Cooling	mode Cdc (Dogr	Heating	PTO oling)	kW			0.1830					
leating	-	adation co adation he	-				0.25					
icating	Cun (Degr	auation ne	auny)		1		0.23					
Electrical spe	cificatio	ns Syste	m		RXYLQ16T	RXYLQ18T	RXYLQ20T	RXYLQ22T	RXYLQ24T			
Current - 50Hz			C) - remark				See note 8					
	Zmax	List					No requirements					
	Minimum			kVa			11,277 (7)					
		circuit amp	os (MCA)	A	32.2 (8)	38.1(8)	44.0 (8)	46.0 (8)	48.0 (8)			
				A	40 (9)	45 (9)	50 (9)		0 (9)			
	Maximum				1 1 () /	, , , , , , , , , , , , , , , , , , , ,	55 (5)		- \-/			
	Maximum Total over						85.0 (10)					
		current am	ips (TOCA)	A A			85.0 (10) 3.0 (11)					

1 - 2 RXYLQ-T

Electrical sp	ecifications System	RXYLQ26T	RXYLQ28T	RXYLQ30T	RXYLQ32T	RXYLQ34T			
Current - 50Hz	Starting current (MSC) - remark		See note 8						
	Zmax List		No requirements						
	Minimum Ssc value	kVa	11,22	77 (7)		16,915 (7)			
	Minimum circuit amps (MCA)	А	510 (8)	54.0 (8)	66.0 (8)	68.0 (8)	70.0 (8)		
	Maximum fuse amps (MFA)	А	60	(9)		80 (9)			
	Total overcurrent amps (TOCA)	85.0 (10) 127.5 (10			127.5 (10)				
	Full load amps Total	А	3.0	(11)		4.5 (11)			
	(FLA)								

Electrical sp	ecifications System		RXYLQ36T	RXYLQ38T	RXYLQ40T	RXYLQ42T		
Current - 50Hz	Starting current (MSC) - remark		See note 8					
	Zmax List		No requirements					
	Minimum Ssc value	kVa	16,915 (7)					
	Minimum circuit amps (MCA)	Α	72.0 (8)	75.0 (8)	78.0 (8)	810 (8)		
	Maximum fuse amps (MFA)	Α	80 (9) 90 (9)					
	Total overcurrent amps (TOCA)	Α	127.5 (10)					
	Full load amps Total	Α	4.5 (11)					
	(FLA)							

Options 3

3 - 1 Options

RXYLQ-T RXMLQ-T

VRV IV (cold regions)

Heat pump

Option list

Number	Itom			Single unit		Multi ·2· unit	Multi ·3· unit		
Number	Item		RXYLQ10	RXYLQ12	4RXYLQ10	Wulti '2' unit			
I.	Refnet header		KHRQ22M29H						
			KHRQ22M64H						
						KHRQ2	2M75H		
П.	Refnet joint				KHRQ22	2M20T			
				KHRQ22	M29T9				
				KHRQ22	2M64T				
					KHRQ2	2M75T			
III.	Outdoor multi-connection kit	See note ·2·.				BHFQ22P1007			
IV.	Outdoor multi-connection kit	See note ·2·.					BHFQ22P1517		
Number	Itom		Single unit		Multi ·2· unit	Multi ·3· unit			
Number	item		RXYLQ10	RXYLQ12	4RXYLQ10	Watti 2. unit	Water 5- anic		
1a	Cool/heat selector (switch)	See note ·3 & 4·.	KRC19-26A						
1b	Cool/heat selector (PCB)	See note ·3·.	BRP2A81						
1d	Cool/heat selector (fixing box)	See note ·4·.	KJB111A						
2	VRV configurator		EKPCCAB						
3	Branch selector box	·2· units	BPMKS967A2						
5		·3· units	BPMKS967A3						
4	Demand PCB	See note ·5·.	DTA104A61/62*						
5	Demand PCB mounting plate				KKSB2	6B1*			

Notes

All options are kits
Only for multi units
To operate the cool/heat selector function, options ·1a· and ·1b· are both required.
To mount option ·1d·, option ·1a· is required.
To install the demand PCB on the large casing type, the demand PCB mounting plate is required.

3D117168B



4 Combination table

4 - 1 Combination Table

RXMLQ-T VRV4 RXYLQ-T Heat pump Indoor unit combination restrictions (1/2) (3) VRV* DX indoor unit RA DX indoor unit Air handling unit (AHU) Indoor unit combination pattern Hydrobox unit VRV* DX indoor unit 0 o RA DX indoor unit Hydrobox unit х Air handling unit O: Allowed X: Not allowed Notes 2. O₁ - Only connect Hydrobox units to a VRV IV Heat Pump in combination with a VRV DX indoor unit. → Refer to the connection ratio restrictions (3D079540 & 3D117169). A near to use commension ratio restrictions (30/07940 & 30117169). → Connection with only hydrobox units: refer to the Daikin Altherma solutions. Only connect Hydrobox units of the HXY* series. → HXHD* series Hydrobox units are not allowed. - 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. Combination of AHU and VRV DX indoor units → Z-control is possible (EKEQMA* boxes are allowed, but with a limited connection ratio). 5. The combination of AHU with Hydrobox units or RA DX indoor units is not allow (3) 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. 3D079543F RXMLQ-T RXYLQ-T VRV4 Heat pump Indoor unit combination restrictions (2/2) RXYO³ RXYO RYYQ* RYYQ* RXMLQ* RXYLQ* RXMLQ* RXYLQ* **Combination table** Single continuous heating Multi continuous heating Single non-continuous heating Multi non-continuous heating VRV* DX indoor unit 0 0 0 0 RA DX indoor unit 0 ο х х Hvdrobox unit ο 01 ο 0, Air handling unit (AHU) 0 0 (2) 0 0 O: Allowed

X: Not allowed

Notes

1. O₁

- Available upon request through the SPN procedure.

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

3D079543F



4 Combination table

4 - 1 Combination Table

RXMLQ-T

RXYLQ-T

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

Units in scope: FXZQ15A and FXAQ15A.

- In case the system contains these indoor units and the total connection ratio (CR) ≤ 100%: no special restrictions. Follow the restrictions that apply to regular VRV DX indoor units.
- 2. In case the system contains these indoor units and the total connection ratio (CR) > 100%: special restrictions apply.
 - A. When the connection ratio (CR1) of the sum of all FXZQ15A and/or FXAQ15A units in the system ≤ 70%, and ALL other VRV DX indoor units have an individual capacity class > 50: no special restrictions.
 - B. When the connection ratio (CR1) of the sum of all FXZQ15A and/or FXAQ15A units in the system ≤ 70%, and NOT ALL other VRV DX indoor units have an individual capacity class > 50: the restrictions below apply.
 - 100% < CR ≤ 105% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 70%.
 - $105\% < CR \le 110\% \rightarrow CR1$ of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be $\le 60\%$.
 - 110% < CR ≤ 115% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 40%.
 - $115\% < CR \le 120\% \rightarrow CR1$ of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be $\le 25\%$.
 - 120% < CR ≤ 125% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 10%.
 - 125% < CR \leq 130% \rightarrow FXZQ15A andFXAQ15A cannot be used

REMARK

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

Compatibility list: ·VRV4· heat pump - ·RA DX· indoor unit

RXYQ-U RYYQ-U RYMQ-U RXYLQ-T RXMLQ-T

Wall mounted type Fmuro FTXJ20M FTXJ25M FTXJ35M FTXJ50M Stylish FTXA20 FTXA25 FTXA35 FTXA42 FTXA50 Ceiling/wall mounted Flex FLXS25B FLXS35B FLXS50B FLXS60B Floor standing type FVXM FVXM25F FVXM35F FVXM50F CVXM20A FVXM25A FVXM35A FVXM50A FVXM60A Nexura FVXG25K FVXG35K FVXG50K

Remark

The limitations on the use of ·RA DX· indoor units with the ·VRV4· Heat Pump are subject to the rules set out in drawings ·3D079543· and ·3D079540·. If you want to connect ·RA·/·SA· ·DX· cassette, ceiling-mounted, or duct indoor units, use their ·VRV DX· indoor unit equivalents instead.

3D082373E

3D104665





4 Combination table

4 - 1 Combination Table

RXYLQ-T

·VRV· Cold region heat pump Multi-unit standard combinations table

		8HP	10HP	12HP	14HP
٩	RXYLQ10		1		
Heat PUMP	RXYLQ12			1	
	RXYLQ14				1
h 2	RXYLQ16	2			
s wit	RXYLQ18	1	1		
unit	RXYLQ20		2		
oor	RXYLQ22		1	1	
combination v outdoor units	RXYLQ24			2	
Multi combination with 2 outdoor units	RXYLQ26			1	1
Mu	RXYLQ28				2
13	RXYLQ30		3		
with	RXYLQ32		2	1	
Multi combination with 3 outdoor units	RXYLQ34		1	2	
oor	RXYLQ36			3	
omt	RXYLQ38			2	1
lti c	RXYLQ40			1	2
Ψr	RXYLQ42				3

Notes

1) It is allowed to have other combinations than those described above.

2) Never combine more than 3 units to create a multi-combination.

3) RXYLQ10~14 = single non continuous heating model

4) RXYLQ16~42 = multi non continuous heating model

3D117167

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 - 2 Capacity Correction Factor

RXMLQ-T RXYLQ-T

5

VRV- Cold region heat pump Integrated Heating Capacity coefficient

The heating capacity tables do not take account of the reduction in capacity, when frost has accumulated or while the defrosting operaton is in progress. The capacity values, which take these factors into account, in other words, the integrated heating capacity values, can be calculated as follows:

Formula:

Integrated heating capacity = A

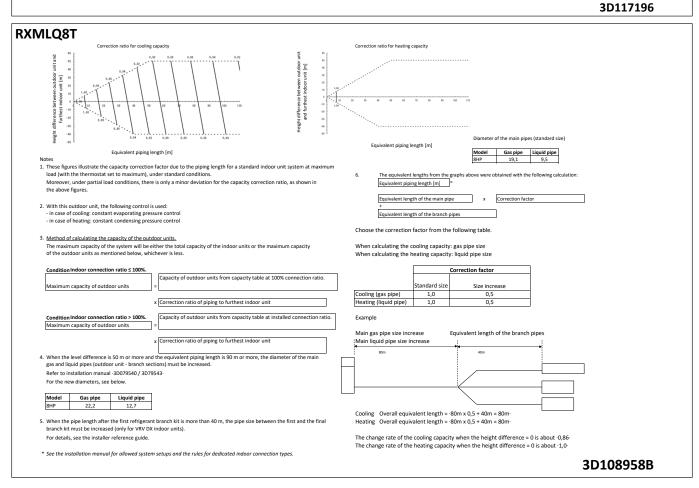
Value given in table of capacity characteristics = B Integrating correction factor for frost accumulation (kW) = C A = B * C

Inlet air temperature of heat exchanger

[°CDB/°CWB]	-7/-7,6 or less	-5/-5,6	-3/-3,7	0/-0,7	3/2,2	5/4,1	7/6
Correction factor defrost	0,95	0,90	0,90	0,90	0,90	0,95	1,00

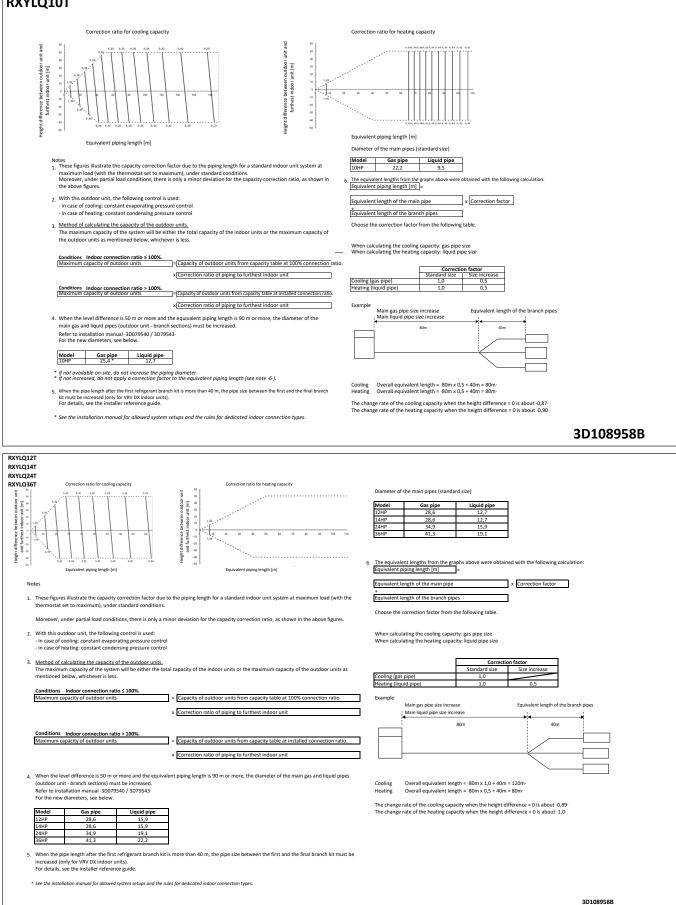
Notes

- 1) The figure shows that the integrated heating capacity expresses the integrated capacity for a single cycle (from defrost operation to defrost operation) in terms or time.
- 2) Note that, when there is an accumulation of snow against the outside surface of the outdoor unit heat exchanger, there will always be a temporary reduction in capacity, although this will of course vary in degree in accordance with a number of other factors, such as the outdoor temperature (°CDB), relative humidity (RH) and the amount of frosting which occurs.
- 3) Multi combination data is corresponding with the standard multi combination as mentioned on 3D117167.



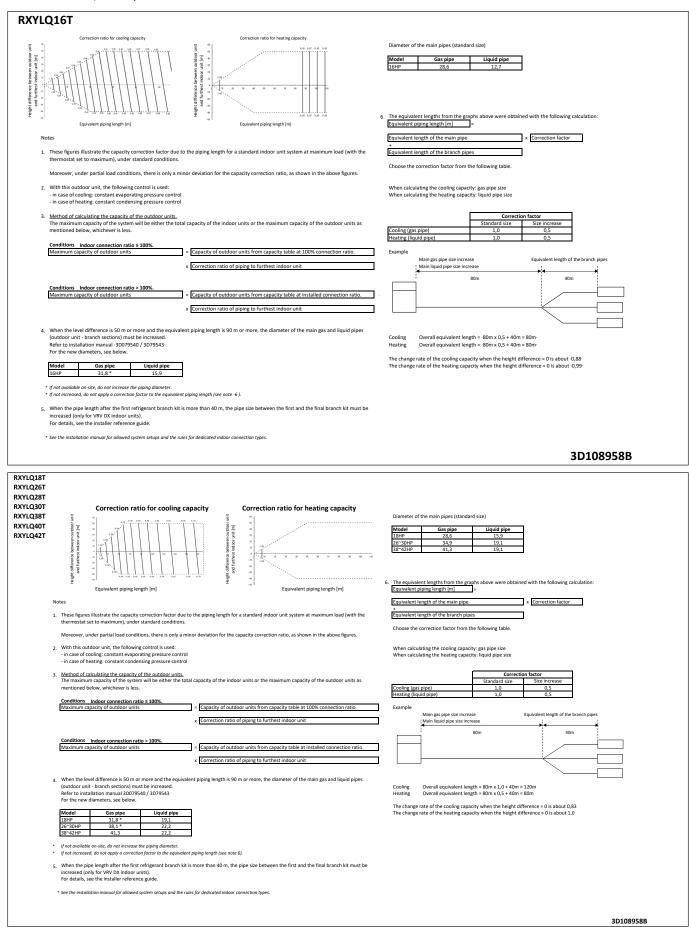
5 - 2 Capacity Correction Factor

RXYLQ10T





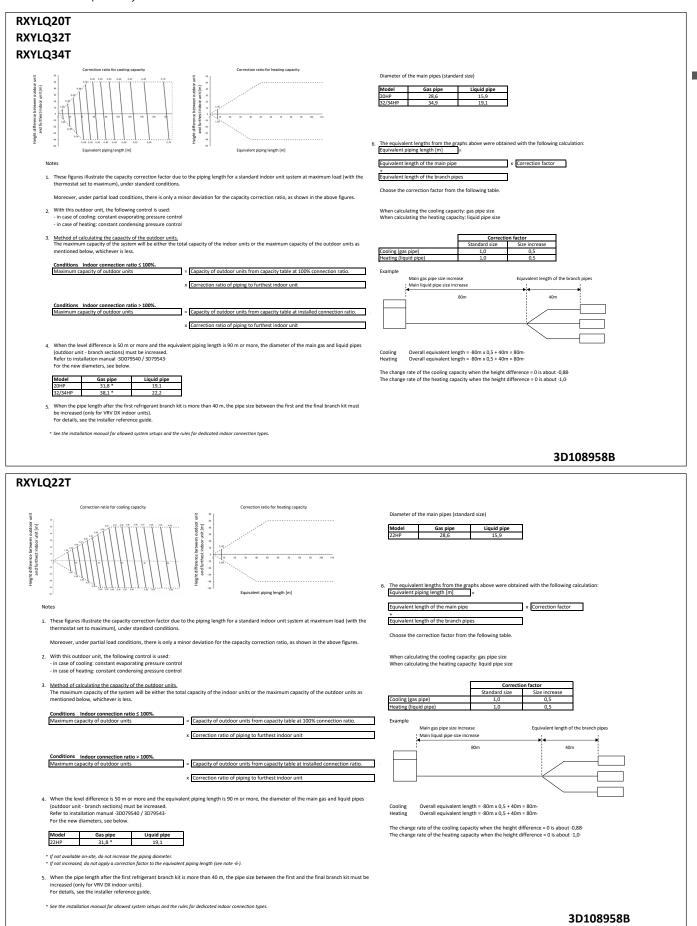
5 - 2 Capacity Correction Factor



5

5 Capacity tables

5 - 2 Capacity Correction Factor

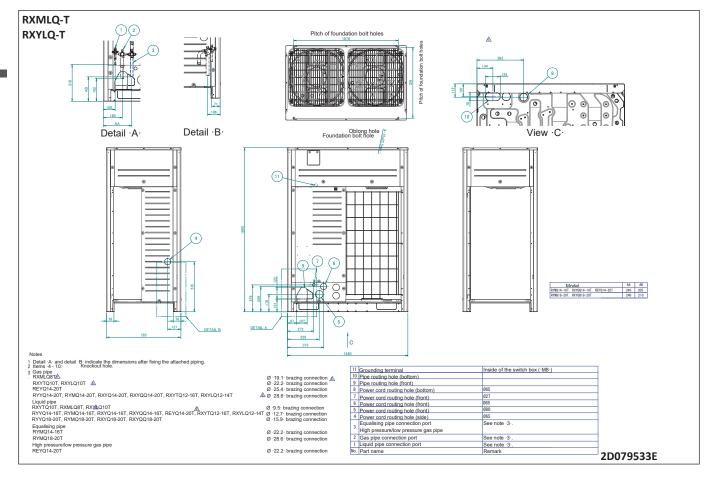




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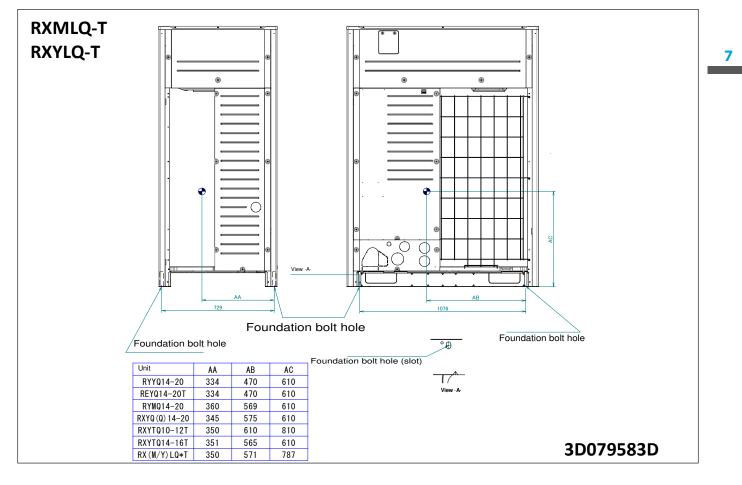
6 Dimensional drawings

6 - 1 Dimensional Drawings



7 Centre of gravity

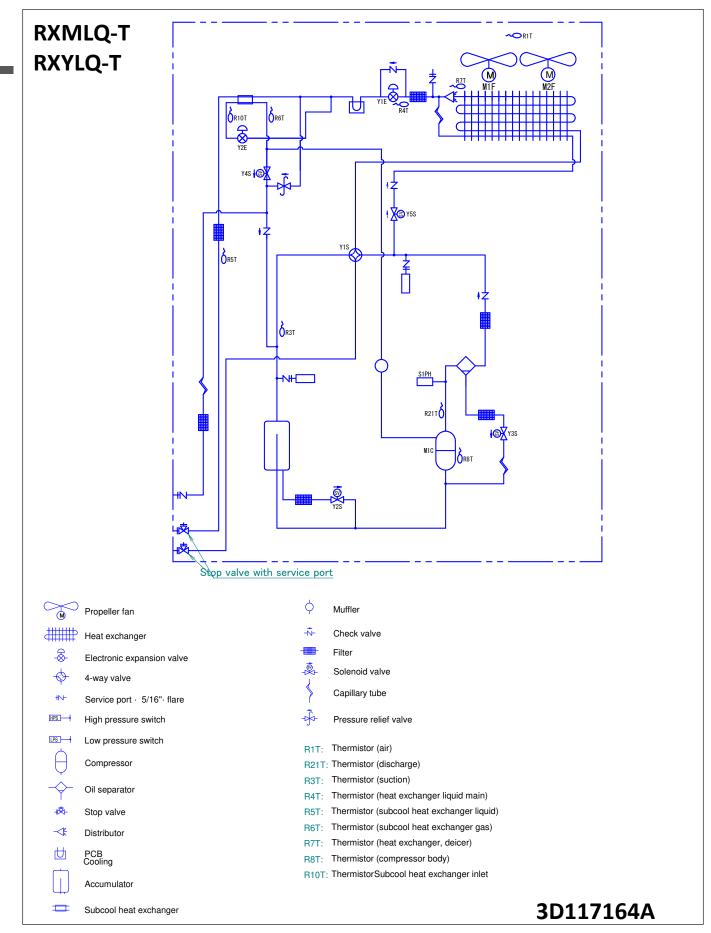
7 - 1 Centre of Gravity



8

8 Piping diagrams

8 - 1 Piping Diagrams



Piping diagrams 8

8 - 1 **Piping Diagrams**

RXMLQ-T

RXYLQ-T

VRV4 Heat pump

Piping restrictions 1/3								
			Maximum piping	length	Maxi	mum height difference		
For the reference drawing, see		Longest pipe	After first branch	After first branch (for multi-outdoor)	Indoor-to ⁽³⁾ outdoor	Indoor-to-indoor	Outdoor-to-outdoor	Total piping length
page 2/3.		(A+[B,G,E,J])	(B,G,E,J)	(D)	(H1)	(H2)	(H3)	
		Actual / (Equivalent)	Actual	Actual / (Equivalent)	Outdoor above indoor / (indoor above outdoor)			
Standard		(8)						
VRV DX indoor units only		165/(190)m	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	500m
Standard multi-combination								
All multi-outdoor-unit combinations except standard mul combinations	ti-outdoor-unit	135/(160)m ⁽⁸⁾	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	300m
Hydrobox connection		135/(160)m ⁽⁸⁾	40m	10/(13)m	50/(40)m	15m	5m	300m ⁽⁵⁾
RA connection		100/(120)m ⁽⁸⁾	50m ⁽²⁾	-	50/(40)m	15m	-	250m
AHU connection Pair Multi ⁽⁶⁾		50/(55)m ⁽⁴⁾	-	-	40/(40)m	-	-	-
		120/(140)m ⁽⁸⁾	40m	10/(13)m	40/(40)m	15m	5m	500m
	Mix ⁽⁷⁾	120/(140)m ⁽⁸⁾	40m	10/(13)m	40/(40)m	15m	5m	500m

Remark For standard multi-outdoor-unit combinations, see 3D117167.

 Benzel

 For standard multi-outdoar-unit combinations, see 30117167.

 [1] Hal conditions below are met, the limitation can be extended up to 90 m

 [3] Hal conditions below are met, the limitation can be extended up to 90 m

 [4] Hal conditions below are met, the limitation can be extended up to 90 m

 [5] Hal conditions below are met, the limitation can be extended up to 90 m

 [6] It is necessary to increase the size of the gas and liquid piping.

 [1] Hit being increased pipe size is linercased, be size is size of the main pipe, also increase the size of the main pipe.

 [2] Other biping length between the first branch and to be outdoor unit and the farthest indoor unit to the outdoor unit is a 540m.

 [3] If the piping length between the first branch and the BP box or VRV indoor unit is met other 000 m is possible without an additional option kit. Respect the following conditions:

 [3] If the piping length between the BP box or VRV indoor unit is met other 000 m is possible without an additional option kit. Respect the following conditions:

 [3] Ar densitiate setting on the outdoor unit is required.

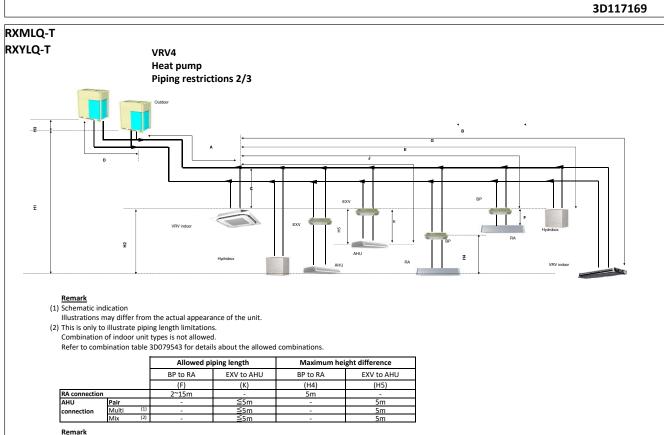
 [4] Aff the outdoor units are positioned linear than the indoor units:

 [5] A deficitate setting on the outdoor unit is required.

 [6] A fifte outdoor unit is repositioned linear than the indoor units:

 [6] Aff the outdoor unit is required.

 [6] Aff the outdoor unit is repositioned linear than the indoor units:



(1) Multiple air handling units (AHU)(EKEXV + EKEQ kits). (2) Mix of AHU units and VRV DX indoor

3D117169



Piping diagrams 8

8 - 1 **Piping Diagrams**

RXMLQ-T RXYLQ-T

8

VRV4 Heat pump Piping restrictions 3/3

System pattern Allowed connection ratio (CR)		Total	Allowed capacity				
Other combinations are not allowed.	Capacity	Indoor unit quantity (VRV, RA, AHU, Hydrobox)	VRV DX indoor unit	RA DX indoor unit	Hydrobox unit	Air handling unit (AHU)	
VRV DX indoor units only	70~130%	Max.64	70~130%	-	-	-	
VRV DX indoor unit + RA DX	80~130%	Max.32 ⁽¹⁾	0~130%	0~130%	-	-	
RA DX indoor unit	80~130%	Max.32 ⁽¹⁾	-	80~130%	-	-	
VRV DX indoor unit + LT hydrobox	70~130%	Max.32	70~130%	-	0~50%	-	
VRV DX indoor unit + AHU	70~110% ⁽³⁾	Max.64 ⁽²⁾	70~110%	-	-	0~110%	
AHU only (4) Pair + multi	90~110% ⁽³⁾	Max.64 ⁽²⁾	-	-	-	90~110%	

Remark
(1) There is no restriction on the number of connectable BP boxes.

(2) For connection with AHU
 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: <30%. Maximum connection ratio when only air handling units are connected: <100%. 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 EKEXV-EKEQ unit.

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

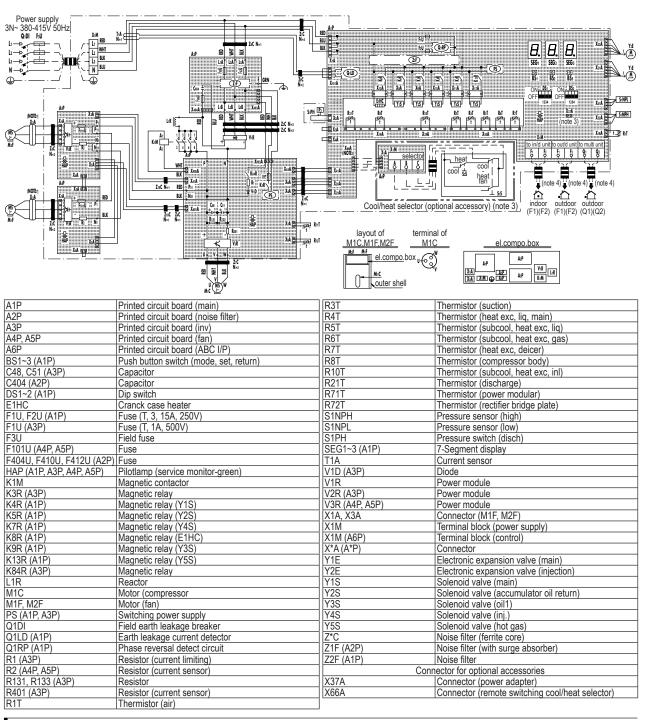
V. Because there is no refrigerant connection with the outdoor unit (only communication F1/F2). VAM units do not have connection limitations. However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units.

3D117169

Wiring diagrams 9

9 - 1 Wiring Diagrams - Three Phase





NOTES

1. This wiring diagram applies only to the outdoor unit.

2. :== Tele winning, iterminal block, O: connector, ---: terminal, (): protective earth (screw), (): functional earth, : options

- _: PCB, [_____ : earth wiring, — — —: field supply, 🖂 🗆: switch box, 🕅
- 3. When using the optional adapter, refer to the installation manual of the optional adapter.
- 4. For connection wiring from indoor-outdoor transmission F1-F2 5. Outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2
- 6. Refer to the installation manual.
- 7. How to use BS1~3 switch. Refer to "service precaution" label on el. compo. box cover.
- 8. When operating, don't shortcircuit the protection devices (S1PH).
- 9. Connector X1A (M1F) is white, connector X3A (M2F) is red.

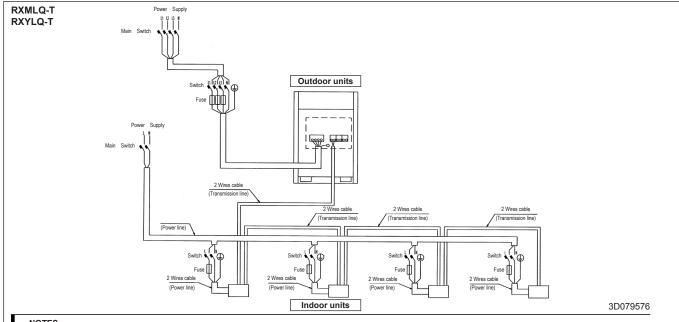
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10

External connection diagrams 10

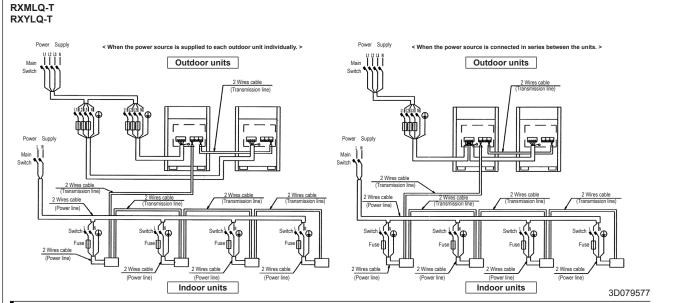
10 - 1 External Connection Diagrams



NOTES

All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.

- Use copper conductors only. 2.
- 3. As for details, see wiring diagram
- 4
- Install circuit breaker for safety. All field wiring and components must be provided by licensed electrician. 5.
- Unit shall be grounded in compliance with the applicable local and national codes
- Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- Be sure to install the switch and the fuse to the power line of each equipement. 8 9.
- Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources
- If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. 10. Running the product in reversed phase may break the compressor and other parts.
- 11. Must install earth leakage circuit breaker.

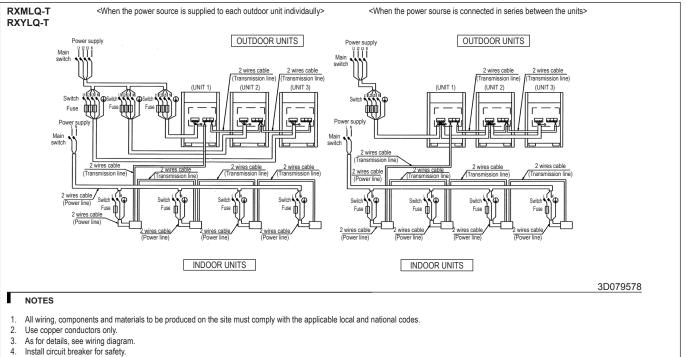


NOTES

- All wiring, components and materials to be procured on the site must comply with the applicable local and national codes. Use copper conductors only. As for details, see wiring diagram.
- 2.
- 3.
- Install circuit breaker for safety. 4.
- 5 All field wiring and components must be provided by licensed electrician.
- 6.
- Unit shall be grounded in compliance with the applicable local and national codes. Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- Be sure to install the switch and the fuse to the power line of each equipement. 8.
- 9. Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
- 10
- the capacity of UNIT1 must be larger than UNIT2 when the power source is connected in series between the units. If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. 11. Running the product in reversed phase may break the compressor and other parts.
- 12. Must install earth leakage circuit breaker

External connection diagrams 10

10 - 1 **External Connection Diagrams**



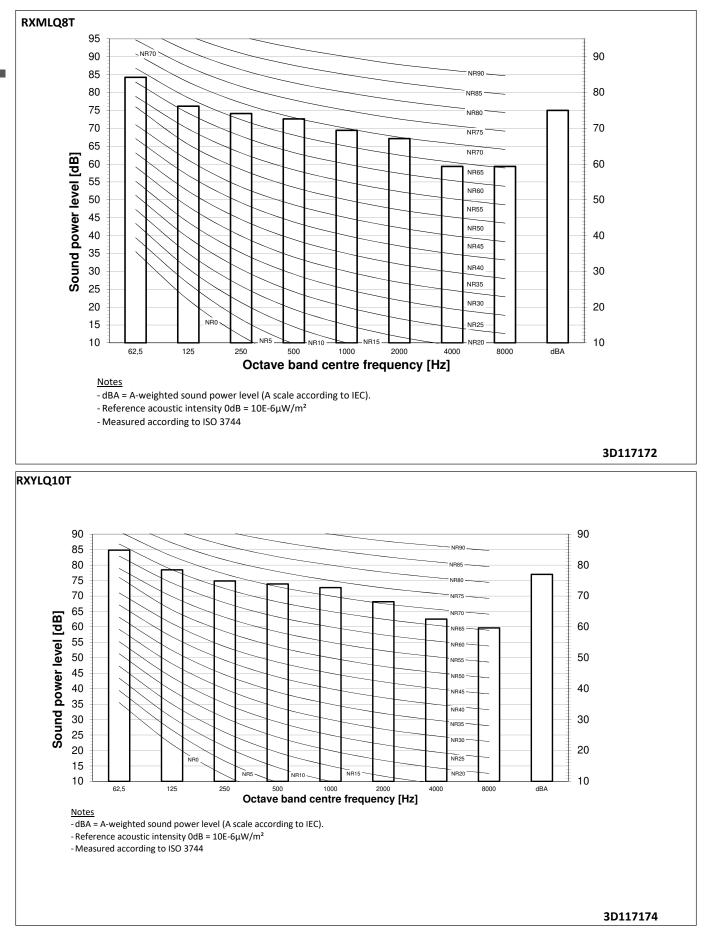
- All field wiring and components must be provided by licensed electrician. 5.
- Unit shall be grounded in compliance with the applicable local and national codes. 6.
- Wiring shown are general points-of-connection guides only and are nog intended for or to include all details for a specific installation. Be sure to install the switch and the fuse to the power line of each equipement. 7.
- 8.
- Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources. 9.
- 10. The capacity of UNIT1 must be larger than UNIT2 when the power source is connected in series between the units.
- 11. If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.
- 12. Must install earth leakage circuit breaker.



11

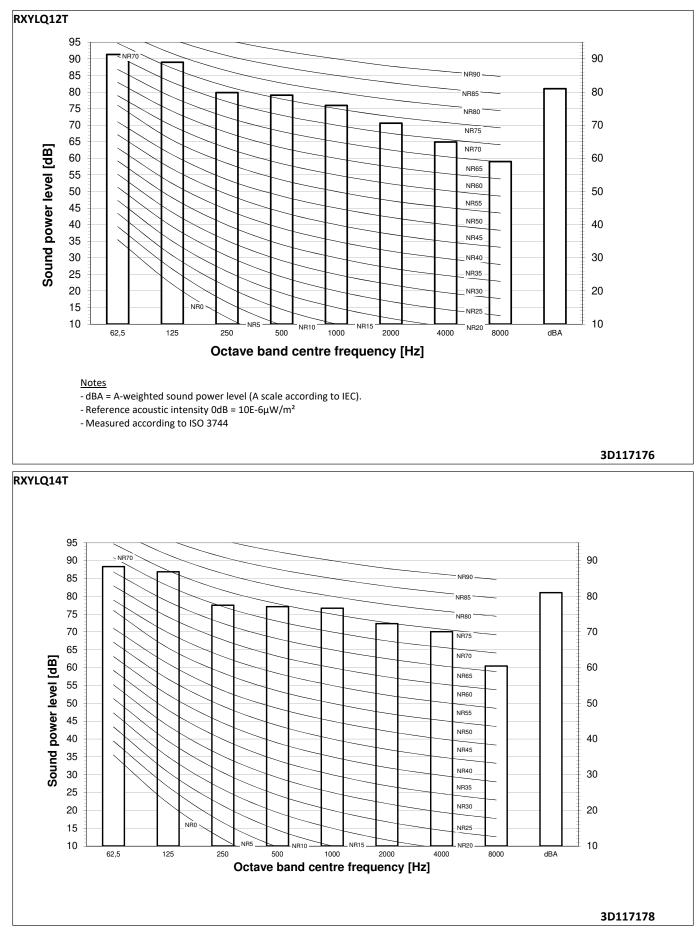
11 Sound data

11 - 1 Sound Power Spectrum



11 Sound data

11 - 1 Sound Power Spectrum

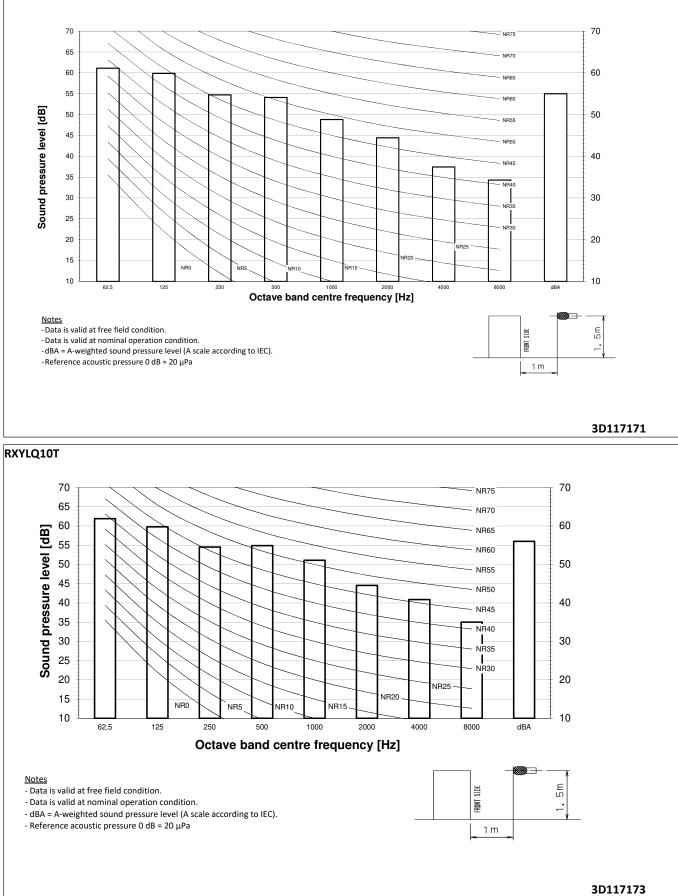


11 Sound data

11 - 2 Sound Pressure Spectrum



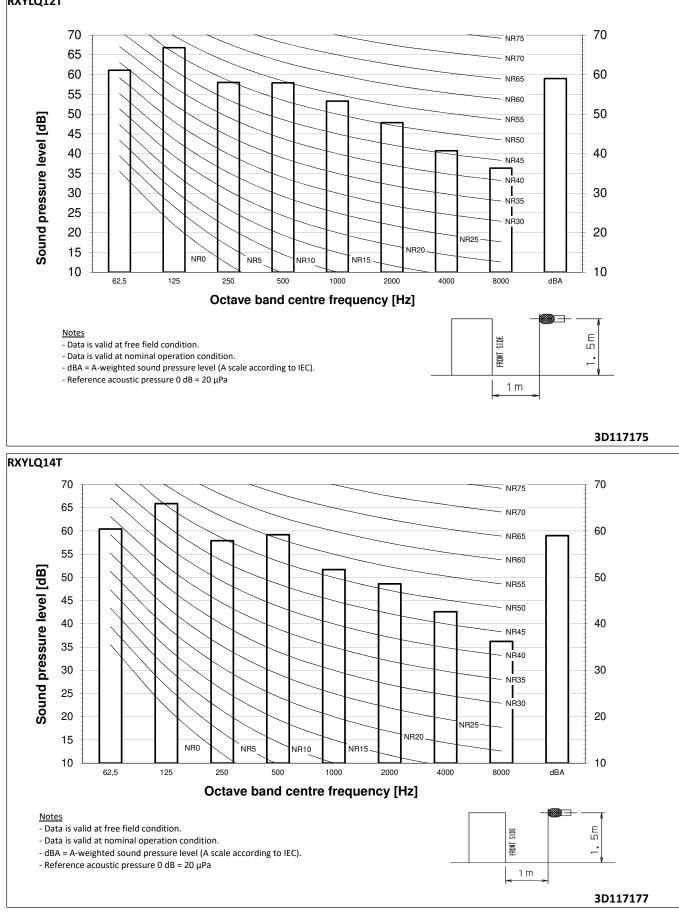




Sound data 11

Sound Pressure Spectrum 11 - 2



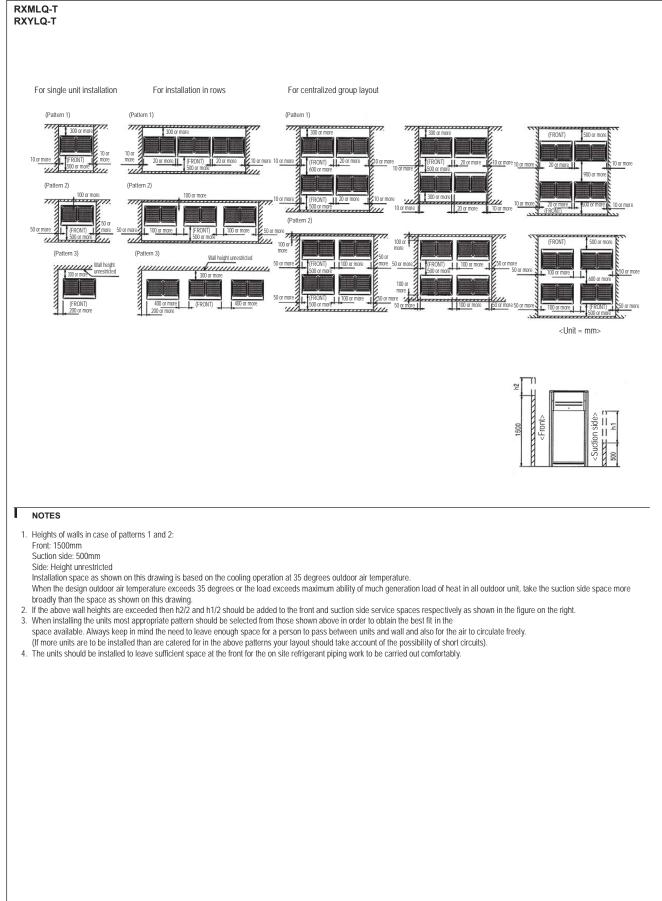




12 Installation

12 - 1 Installation Method

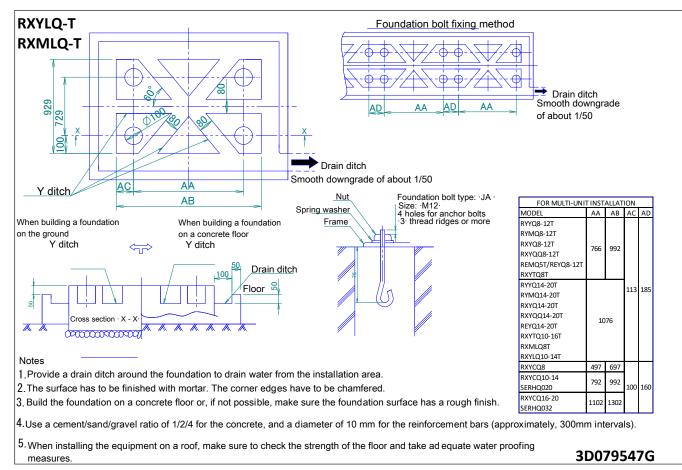
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12 Installation

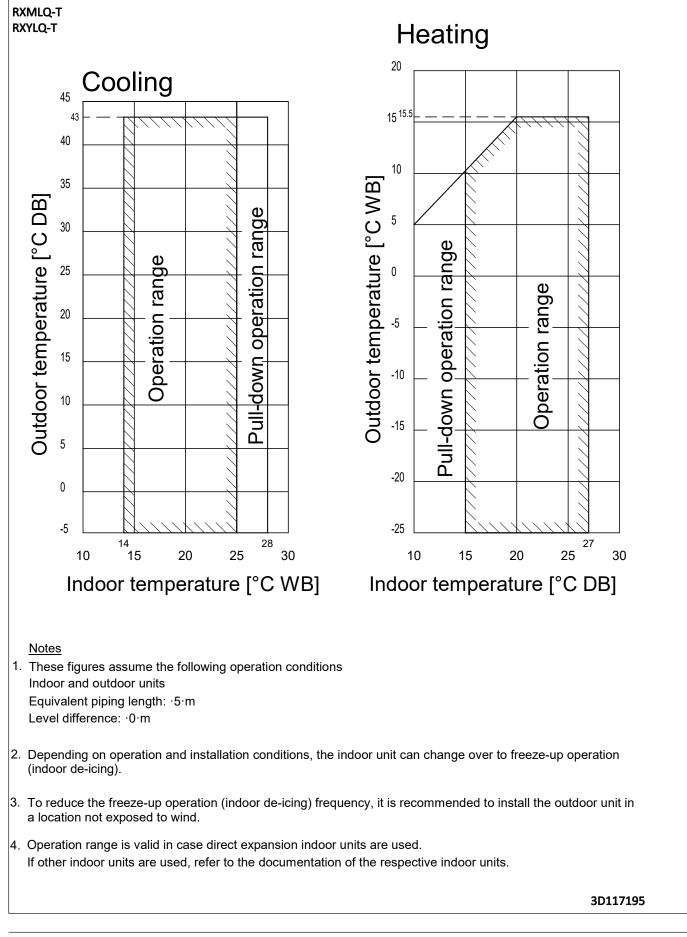
12 - 2 Fixation and Foundation of Units



13

13 Operation range

13 - 1 Operation Range



Appropriate Indoors 14

Appropriate Indoors 14 - 1

RXYLQ-T RXMLQ-T

Recommended indoor units for ·RXYQ*U* / RYYQ*U* / RYMQ*U* / RXMLQ*T* / RXYLQ*T*· outdoor units

HP	8	10	12	14	16	18	20
1	4xFXFQ50	4xFXFQ63	6xFXFQ50	1xFXFQ50	4XFXFQ63	3xFXFQ50	2xFXFQ50
1	4XFXFQ50	4XFAFQ05	0XFXFQ30	5XFXFQ63	2xFXFQ80	5XFXFQ63	6xFXFQ63
2	4xFXSQ50	4xFXSQ63	6xFXSQ50	1xFXSQ50	4XFXSQ63	3xFXSQ50	2xFXSQ50
2	4XFX5Q50	4XFX5Q63	DXFXSQ5U	5XFXSQ63	2xFXSQ80	5XFXSQ63	6xFXSQ63
2	4	4	CEVMOE0	1xFXMQ50	4XFXMQ63	3xFXMQ50	2xFXMQ50
3	4xFXMQ50	4xFXMQ63	6xFXMQ50	5XFXMQ63	2xFXMQ80	5XFXMQ63	6xFXMQ63

For multi outdoor units ->16HP-, the recommended amount of indoor units is the sum of the indoor units defined for a single outdoor unit. For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·RXYQ*U* / RYYQ*U* / RYMQ*U* / RXMLQ*T* / RXYLQ*T*· outdoor units

Covered by •ENER LOT10• FTXJ25-35-50 FTXA20-25-35-42-50 FTXM20-25-35-42-50-60-71 CTXM15 Covered by .ENER LOT21. FXFQ20-25-32-40-50-63-80-100-125 FXZQ15-20-25-32-40-50 FLXS25-35-50-60 FXCQ20-25-32-40-50-63-80-125 FXCQ20-25-32-40-50-55-80-125 FXKQ25-32-40-63 FXDQ15-20-25-32-40-50-63 FXSQ15-20-25-32-40-50-63-80-100-125-140 FLX525-35-30-60 FVXM25-35-50 FVXG25-35-50 CVXM20A FVXM25A-35A-50A-60A FXMQ50-63-80-100-125-200-250 FXAQ15-20-25-32-40-50-63 Outside the scope of .ENER LOT21. FXHQ32-63-100 FXUQ71-100 FXNQ20-25-32-40-50-63 FXLQ20-25-32-40-50-63 EKEXV50-63-80-100-125-140-200-250-400-500 + EKEQM / EKEQF HXY080-125 VKM50-80-100 CYVS100-150-200-250 CYVM100-150-200-250 CYVL100-150-200-250

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