

VRV IV+ heat pump, without continuous heating Air Conditioning Technical Data RXYO-U

RXYQ8U7Y1B RXYQ10U7Y1B RXYQ12U7Y1B RXYQ14U7Y1B RXYQ16U7Y1B RXYQ18U7Y1B RXYQ20U7Y1B RXYQ22U7Y1B RXYQ24U7Y1B RXYQ26U7Y1B RXYQ28U7Y1B RXYQ30U7Y1B RXYQ32U7Y1B RXYQ34U7Y1B RXYQ36U7Y1B RXYQ38U7Y1B RXYQ40U7Y1B RXYQ42U7Y1B RXYQ44U7Y1B RXYQ46U7Y1B RXYQ48U7Y1B RXYQ50U7Y1B RXYQ52U7Y1B RXYQ54U7Y1B





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1 Features

1 - 1 RXYO-U

Daikin's solution for comfort & low energy consumption

- By choosing this product with LOOP by Daikin you support the reuse of refrigerant
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- > 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
- > Free combination of outdoor units to meet installation space or efficiency requirements

- > Fits any building as also indoor installation is possible as a result of high external static pressure of up to 78.4 Pa. Indoor installation leads to less piping length, lower installation costs, increased efficiency and better visual aesthetics
- > 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: 1,000m
- > The ability to control each conditioned zone individually keeps VRV system running costs to an absolute minimum
- > Spread your installation cost by phased installation
- Keep your system in top condition via the Daikin Cloud Service:
 24/7 monitoring for maximum efficiency, extented lifetime and immediate service support thanks to failure prediction
- > Available as heating only by irreversible field setting





DAIKIN



Technical Spe			RXYQ8U	RXYQ10U	RXYQ12U	RXYQ14U	RXYQ16U
Recommended co	embination		4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5	
						x FXFQ63AVEB	x FXFQ80AVEB
Recommended co	ombination 2		4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	1 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	4 x FXSQ63A2VEB 2 x FXSQ80A2VEB
Recommended co	mbination 3		4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB +	4 x FXMQ63P7VEB
						5 x FXMQ63P7VEB	2 x FXMQ80P7VEB
Cooling capacity	Prated,c	kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	45.0 (1)
Heating capacity	Nom. 6°CWB	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	45.0 (2)
	Prated,h	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	45.0 (2)
	Max. 6°CWB	kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)	50.0 (2)
Power input - 50H:	z Heating Nom. 6°CWB	kW	5.40 (2)	7.58 (2)	9.65 (2)	10.69 (2)	12.54 (2)
COP at nom. capacity	6°CWB	kW/kW	4.15 (2)	3.69 (2)	3.47 (2)	3.74 (2)	3.59 (2)
ESEER - Automatic			7.53	7.20	6.96	6.83	6.50
ESEER - Standard			6.37	5.67	5.50	5.31	5.05
SCOP			4	.3	4.1		.0
	led combination 2		4.2	4.3	4.1	4.0	4.1
	led combination 3		4.2		l.1		.0
SEER			7.6	6.8	6	5.3	6.0
SEER recommende	ed combination 2		6.9	6.8	5.9	6.3	5.9
SEER recommende			7.5	6.8		5.2	5.8
ηs,c		%	302.4	267.6	247.8	250.7	236.5
ns,c recommende	d combination 2	/0	273.6	270.5	233.5	250.0	234.2
ηs,c recommende			295.2	267.1	246.3	246.7	230.4
ns,h	a combination 5	%	167.9	168.2	161.4	155.4	157.8
ηs,h recommende	d combination ?	70	165.4	170.6	161.3	157.2	159.5
ηs,h recommende			165.6	162.0	160.6	155.7	156.8
Space cooling	A Condi- EERd		3.0	2.3	2.4	2.6	2.1
space cooling	tion (35°C Pdc	kW	22.4	28.0	33.5	40.0	45.0
	- 27/19)	KVV		28.0	33.5	40.0	45.0
	B Condi- EERd		5.2	4.7	4.3	4.1	3.9
	tion (30°C Pdc - 27/19)	kW	16.5	20.6	24.7	29.5	33.2
	C Condi- EERd		9.5	8.3	7.7	7.8	7.7
	tion (25°C Pdc - 27/19)	kW	10.6	13.3	15.9	18.9	21.3
	D Condi- EERd		18.8	17.0	13.9	14.3	14.2
	tion (20°C Pdc	kW	8.0	9.3	9.4	8.4	9.5
	- 27/19)						
Space cooling	A Condi- EERd		2.6	2	.4	2.6	2.1
recommended combination 2	tion (35°C Pdc - 27/19)	kW	22.4	28.0	33.5	40.0	45.0
	B Condi- EERd		4.9	4.7	4.0	4.1	3.8
	tion (30°C Pdc - 27/19)	kW	16.5	20.6	24.7	29.5	33.2
	C Condi- EERd tion (25°C		8.8	8.5	7.1	7.9	7.6
Space cooling	- 27/19) C Condi- Pdc	kW	10.6	13.3	15.9	19.0	21.3
recommended	tion (25°C	KVV	10.6	15.5	15.9	18.9	21.5
combination 2	- 27/19)						1.0
	D Condi- EERd		15.1	17.2	13.1		1.0
	tion (20°C Pdc - 27/19)	kW	8.8	9.3	9.1	8.4	9.5
Space cooling	A Condi- EERd		3.0	2.3	2.4	2.6	2.1
recommended combination 3	tion (35°C Pdc - 27/19)	kW	22.4	28.0	33.5	40.0	45.0
	B Condi- EERd		5.1	4.7	4.2	4.0	3.7
	tion (30°C Pdc - 27/19)	kW	16.5	20.6	24.7	29.5	33.2
	C Condi- EERd		9.6	8.4	7	<u>'</u> .7	7.4
	tion (25°C Pdc - 27/19)	kW	10.6	13.3	15.9	19.0	21.3
	D Condi- EERd		16.0	16.9	12 7	14.0	1/11
	tion (20°C Pdc	kW	9.1	9.3	9.4	8.4	9.5
	HOH (20 C FUC	KVV	7.1	9.5	7.4	0.4	9.5



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ipace heating Accommended (-7° b) Combination 2 b) Combin	Con- ition 7°C) Condi- on (2°C) Condi- ition 2°C) Con- ition 7°C) Con- ition 7°C) Condi- on (2°C) Condi- on (7°C) Condi- on (7°C) Condi- on (7°C) Condi- on (7°C)	Tol (temperature operating limit) COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap)	kW kW kW kW	2.7 12.1 7.4 6.3 5.0 7.9 5	2.6 14.2 3.9 8.6 6.4 5.5 8.2	-10 2.4 16.3 9.9 6.4 7.9 6.3 2.4 16.3	2. 18.2 3. 11.1 5.1 7.1 8.5 4. 2. 18.2	6 20.5 5 12.5 6.3 8.0 8.6 9
dit (-7' B C tio C C tio D C dit (12' pace heating A C Average climate) dit ecommended (-7' ombination 2 B C tio D C dit (12' TBi TO pace heating TO	Con- ition 7°C) Condi- on (2°C) Condi- ition 2°C) Con- ition 7°C) Con- ition 7°C) Condi- on (2°C) Condi- on (7°C) Condi- on (7°C) Condi- on (7°C) Condi- on (7°C)	limit) COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap) COPd (declared heating cap) COPd (declared COP) Pdh (declared COP) Pdh (declared heating cap) COPd (declared heating cap) COPd (declared heating cap)	kW kW kW kW	7.4 6.3 5.0 7.9 5 12.1	3.9 8.6 6.4 5.5 8.2	2.4 16.3 9.9 6.4 7.9 6.3 2.4 16.3	18.2 3. 11.1 5.1 7.1 8.5 4. 2. 18.2	20.5 5 12.5 6.3 8.0 8.6 9
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dit (-7' B C tio C C tio D C dit (12' pace heating A C Average climate) dit ecommended (-7' ombination 2 B C tio D C dit (12' TBi TO pace heating TO	ition 7°C) Condi- con (2°C) Condi- con (7°C) Con- ition 2°C) Con- ition 7°C) Condi- con (2°C) Condi- con (7°C) Condi- con (7°C) Condi- con (2°C)	COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap) COPd (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap)	kW kW kW	7.4 6.3 5.0 7.9 5 12.1	3.9 8.6 6.4 5.5 8.2	9.9 6.4 7.9 6.3 2.4 16.3	3. 11.1 5.1 7.1 8.5 4. 2. 18.2	5 12.5 6.3 8.0 8.6 9
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pace heating ACC tio CCC tio C	on (2°C) Condi- on (7°C) Con- ition 2°C) Con- ition 7°C) Condi- on (2°C) Condi- on (7°C) Condi- on (7°C) Condi- on (7°C)	Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared COP) Pdh (declared heating cap) COPd (declared heating cap) COPd (declared heating cap)	kW kW	6.3 5.0 7.9 5 12.1 3.9	8.6 6.4 5.5 8.2 5.9	6.4 7.9 6.3 2.4 16.3	11.1 5.1 7.1 8.5 4.	12.5 6.3 8.0 8.6 9
pace heating A C C C C C C C C C C C C C C C C C C	Condi- on (7°C) Con- ition 2°C) Con- ition 7°C) Condi- on (2°C) Condi- on (7°C) Con- ition 2°C)	COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap) Pdh (declared heating cap) COPd (declared COP) Pdh (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap) COPd (declared heating cap) COPd (declared heating cap)	kW kW	6.3 5.0 7.9 5 12.1 3.9	6.4 5.5 8.2 5.9	6.4 7.9 6.3 2.4 16.3	2. 18.2	6.3 8.0 8.6 9
pace heating tio D (dit (12') Average climate) dit ecommended (-7') to D (dit (12') tio D (dit (12') TBi TO pace heating TO	on (7°C) Condition 2°C) Condition 7°C) Condition (2°C) Condition (7°C) Condition (7°C) Condition (7°C)	Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared Heating cap) COPd (declared heating cap) COPd (declared heating cap) Pdh (declared heating cap)	kW	5.0 7.9 5 12.1 3.9	5.5 8.2 5.9	6.4 7.9 6.3 2.4 16.3	7.1 8.5 4. 2. 18.2	8.0 8.6 9 6 20.5
pace heating A C Average climate) dit cecommended (-7s tio D C C tio D C dit (12s TBi TO pace heating TO	Con- ition 2°C) Con- ition 7°C) Condi- on (2°C) Condi- on (7°C) Con- ition 2°C)	COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap) COPd (declared heating cap) COPd (declared heating cap)	kW	7.9 5 12.1 3.9	8.2 5.9	7.9 6.3 2.4 16.3	8.5 4. 2. 18.2	8.6 9 6 20.5
pace heating A C Average climate) dit (12' pace heating A C Average climate) dit ecommended (-7' tio C C C tio D C C C T B C T	ition 2°C) Con- ition 7°C) Condi- on (2°C) Condi- on (7°C) Con- ition 2°C)	Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared heating cap) COPd (declared COP) Pdh (declared heating cap)	kW	12.1 3.9	2.7	6.3 2.4 16.3	2.	9 6 20.5
pace heating A C dit ecommended (-7' occasion	2°C) Condition 7°C) Condion (2°C) Condion (7°C) Condition (7°C)	COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared Heating Cap) Pdh (declared Heating Cap)	kW	12.1	2.7	2.4 16.3	18.2	5 20.5
pace heating A C dit	Con- ition 7°C) Condi- on (2°C) Condi- on (7°C) Con- ition 2°C)	Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap)		12.1		16.3	18.2	20.5
Average climate) dit ecommended (-7' ombination 2 b C C C tio D C dit (12' TBi TO pace heating TO	ition 7°C) Condi- on (2°C) Condi- on (7°C) Con- ition 2°C)	Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap)		12.1		16.3	18.2	20.5
ombination 2 tio tio C C tio D C dit (12' TBi TO pace heating	Condi- on (2°C) Condi- on (7°C) Con- ition 2°C)	Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap)	kW				3.	5
tio C C tio D C dit (12' TBi TO pace heating	con (2°C) Condi- con (7°C) Con- ition 2°C)	Pdh (declared heating cap) COPd (declared COP) Pdh (declared heating cap)	kW		1.0		3.	5
tio DC dit (12' TBi	Condi- on (7°C) Con- ition 2°C)	COPd (declared COP) Pdh (declared heating cap)	KVV	7 4	4.0	3.9		
tio DC dit (12' TBi TO space heating TO	on (7°C) Con- ition 2°C)	Pdh (declared heating cap)		7.4	8.6	9.9	11.1	12.2
D C dit (12' TBi	Con- ition 2°C)		1.144	6.3	6.5		5.1	6.3
dit (12' TBi	ition 2°C)	LING (doctored (OD)	kW	5.0	5.5	6.4	7.1	8.0
(12' TBi	2°C)	COPd (declared COP)	1347	7.8	8.3	7.9	8.6	8.7
TBi TO pace heating TO		Pdh (declared heating cap)	kW	5.9	6.0	6.4	4.9	5.0
TO pace heating TO		COPd (declared COP)		2	2.4	1.9	2.3	2.2
Space heating TO		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2
pace heating TO		Tbiv (bivalent temperature)	°C			-10		-
pace heating TO		COPd (declared COP)		2	2.4	1.9	2.3	2.2
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2
ecommended		Tol (temperature operating limit)	°C			-10		
combination 2	C	COD I (I a I a a I COD)		2.7	2.6	2.4	2	
		COPd (declared COP)	134/	2.7	2.6	2.4	2.	
	ition	Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5
	7°C)	COD4 (4 - 4 - 4 COD)		3.9	3.7	2.0	2	
		COPd (declared COP) Pdh (declared heating cap)	kW	7.4	8.6	3.9 9.9	3. 11.1	
		COPd (declared COP)	KVV	6.2	6.4	6.0	6.1	12.5 6.2
		Pdh (declared heating cap)	kW		5.5			
	Con-		KVV	4.9		6.4	7.1	8.0
		COPd (declared COP)	1.14/	7.8	8.1	7.8	8.5	8.6
	ition 2°C)	Pdh (declared heating cap)	kW	5.8	5.9	6.2	4.	9
· ·		COPd (declared COP)		2.5	2.4	2.0	2.3	2.2
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2
		Tbiv (bivalent temperature)	°C			-10		
TO	OL	COPd (declared COP)		2.5	2.4	2.0	2.3	2.2
		Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2
		Tol (temperature operating	°C	-		-10		
		limit)						
apacity range			HP	8	10	12	14	16
	ategory					Category II		
		Name				Accumulator	I	
		Ps*V	Bar*l		325		41	5
pai Maximum number of c	art	able indoor units				64 (2)		
		anie ilianot aultz		100.0	125.0	64 (3)	175.0	2000
ndoor index Mi				100.0	125.0	150.0	175.0	200.0
	lax.	Unight		260.0	325.0	390.0	455.0	520.0
Dimensions Un		Height	mm		020	1,685		10
		Width	mm		930	7/5	1,24	ŧU.
_		Depth	mm			765		
		Height	mm		005	1,820		25
un	nıt	Width	mm		995	062	1,30	J5
V-:		Depth	mm		100	860	l	
	nit	:.	kg		198		27	
	acked un	It	kg		211	Carter	29	'I
	laterial		ka		1 0	Carton	2	າ
	/eight		kg		1.8	\M\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2.	4
	laterial /eight		kg		11.0	Wood	14.	



Technical Spe		ns			RXYQ8U	RXYQ10U	RXYQ12U	RXYQ14U	RXYQ16U	
Packing 3	Material			kg		0.5	Plastic	0.	<u> </u>	
Casing	Weight Colour			кд		0.5	Daikin White	0.0	0	
Casing	Material					Pair	nted galvanized steel	nlate		
Heat exchanger	Туре					Pall	Cross fin coil	μιαισ		
ricat exchanger	Indoor sid	1e					Air			
	Outdoor						Air			
	Air flow	Cooling	Rated	m³/h	9,720	10,500	11,100	13,380	15,600	
	rate	Heating	Rated	m³/h	9,720	10,500	11,100	13,380	15,600	
Fan	Quantity	· · · cut·····g	- Tutte u	,	5,7.20	1	11,100	2		
	External	Max.		Pa			78			
	static									
	pressure									
Fan motor	Quantity				1 2					
	Туре						DC motor			
	Output			W		550		75	0	
Compressor	Quantity					1		2		
	Туре					Hermet	ically sealed scroll co	mpressor		
	Crankcase			W			33			
Operation range	Cooling	Min.		°CDB			-5.0			
		Max.		°CDB			43.0			
	Heating	Min.		°CWB			-20.0			
	- r:	Max.		°CWB			15.5			
Sound power level		Nom.		dBA	78.0 (4)	79.1 (4)	83.4 (4)	80.9 (4)	85.6 (4)	
	Heating	Prated,h		dBA	79.6 (4)	80.9 (4)	83.5 (4)	83.1 (4)	86.5 (4)	
Sound pressure level	Cooling	Nom.		dBA	57.0	0 (5)	61.0 (5)	60.0 (5)	63.0 (5)	
Refrigerant	Tuno						R-410A			
Reifigerant	Type GWP						2,087.5			
	Charge			TCO2Eq	12.3	12.5	13.2	21.5	23.6	
	Charge			kg	5.9	6.0	6.3	10.3	11.3	
Refrigerant oil	Type			Kg	5.5		nthetic (ether) oil FVC		11.5	
		Туре					Braze connection	000		
Piping connections Li	Liquid	OD		mm	9	52	Diaze connection	12.7		
	Gas	Туре				12.7				
		OD		mm	Braze connection 19.1 22.2 28.6					
	Total	System	Actual	m	1,000 (6)					
	piping	,								
	length									
Defrost method							Reversed cycle			
Capacity control	Method						Inverter controlled			
Indication if the hea	ater is equi	pped with	n a supplemen	tary heater			no			
Supplementary		Heating	elbu	kW			0.0			
heater	capacity									
Power consump-	Crank-	Cooling	PCK	kW			0.000			
tion in other than	case									
active mode	heater mode									
Power consump-	Crank-	Heating	PCK	kW		0.052		0.0	77	
tion in other than	case	ricatilig	i CIV	V.AA		0.032		0.0	, ,	
active mode	heater									
active mode	mode									
	Off mode	Coolina	POFF	kW		0.041		0.0	74	
		Heating	POFF	kW		0.052		0.0		
	Standby	Cooling		kW		0.041		0.0		
	mode	Heating		kW		0.052		0.0		
	Thermo-		PTO	kW		0.005		0.0		
	stat-off	Heating	PTO	kW		0.056		0.0		
	mode									
Cooling	Cdc (Degi						0.25			
Heating	Cdh (Deg	radation h	eating)				0.25			
Safety devices	Item	01					High pressure switch			
		02					driver overload prote			
		03				In	verter overload prote	ctor		
		04					PC board fuse			
		05				1	eakage current detec	hav		

Technical Specifications	RXYQ18U	RXYQ20U
Recommended combination	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB
Recommended combination 2	3 x FXSQ50A2VEB + 5 x FXSQ63A2VEB	2 x FXSQ50A2VEB + 6 x FXSQ63A2VEB
Recommended combination 3	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB
Cooling capacity Prated,c kW	50.4 (1)	52.0 (1)





Technical Sp			RXYQ18U	RXYQ20U
leating capacity		kW	50.4 (2)	56.0 (2)
	Prated,h	kW	50.4 (2)	56.0 (2)
	Max. 6°CWB	kW	56.5 (2)	63.0 (2)
Power input - 50H			14.22 (2)	17.47 (2)
COP at nom. capacity	6°CWB	kW/kW	3.54 (2)	3.20 (2)
SEER - Automatic			6.38	5.67
SEER - Standard			4.97	4.42
SCOP .			4.2	4.0
COP recommend	ded combination 2		4.2	4.0
COP recommend	ded combination 3		4.1	3.9
SEER			6.0	5.9
	ed combination 2		6.0	5.9
EER recommend	ed combination 3		6.0	5.9
ηs,c		%	238.3	233.7
	ed combination 2		236.8	233.9
	ed combination 3		238.2	233.1
ıs,h		%	163.1	156.6
•	ed combination 2		164.8	158.2
	ed combination 3		159.6	153.4
Space cooling	A Condi- EERd			.9
	tion (35°C Pdc - 27/19)	kW	50.4	52.0
	B Condi- EERd		3.8	3.7
	tion (30°C Pdc - 27/19)	kW	37.1	38.3
	C Condi- EERd		7.5	7.3
	tion (25°C Pdc	kW	23.9	24.6
	- 27/19)			
	D Condi- EERd		18	3.3
	tion (20°C Pdc - 27/19)	kW		1.5
Space cooling	A Condi- EERd		1	.9
recommended	tion (35°C Pdc	kW	50.4	52.0
combination 2	- 27/19)			
	B Condi- EERd	İ	3.7	3.6
	tion (30°C Pdc - 27/19)	kW	37.1	38.3
	C Condi- EERd		7.5	7.3
	tion (25°C		7.5	7.5
Space cooling	- 27/19) C Condi- Pdc	kW	23.9	24.6
recommended	tion (25°C	KVV	23.9	24.0
combination 2	- 27/19)			
	D Condi- EERd		18.1	18.9
	tion (20°C Pdc	kW	11.4	10.9
Space cooling	- 27/19) A Condi- EERd		1	.9
ecommended	tion (35°C Pdc	kW	50.4	52.0
combination 3	- 27/19)	IVAA		32.0
	B Condi- EERd		3.7	3.6
	tion (30°C Pdc - 27/19)	kW	37.1	38.3
	C Condi- EERd		7.6	7.3
	tion (25°C Pdc	kW	23.9	24.6
	- 27/19)			
	D Condi- EERd	İ	18	3.3
	tion (20°C Pdc	kW	1	1.6
	- 27/19)			



Technical Spe				RXYQ18U	RXYQ20U
Space heating		COPd (declared COP)		1.9	1.8
(Average climate)		Pdh (declared heating cap)	kW	27.9	31.0
		Tbiv (bivalent temperature)	°C	-10	
	TOL	COPd (declared COP)		1.9	1.8
		Pdh (declared heating cap)	kW	27.9	31.0
		Tol (temperature operating	°C	-10	
		limit)			
	A Con-	COPd (declared COP)		2.4	2.1
	dition	Pdh (declared heating cap)	kW	24.7	27.4
	(-7°C)	CODd (da da na d COD)		2.7	26
		COPd (declared COP) Pdh (declared heating cap)	kW	3.7 15.0	3.6 16.7
		COPd (declared COP)	KVV	6.7	6.5
		Pdh (declared heating cap)	kW	9.7	10.7
	D Con-	COPd (declared COP)	KVV	9.0	9.1
	dition	Pdh (declared heating cap)	kW	7.1	
	(12°C)	ran (accidica neuting cup)	KVV	7.1	
Space heating	A Con-	COPd (declared COP)		2.4	2.2
(Average climate)	dition	Pdh (declared heating cap)	kW	24.7	27.4
ecommended	(-7°C)	(acciai ca neuting cup)			27.1
combination 2		COPd (declared COP)		3.8	3.7
•		Pdh (declared heating cap)	kW	15.0	16.7
		COPd (declared COP)		6.8	6.5
		Pdh (declared heating cap)	kW	9.7	10.7
	D Con-	COPd (declared COP)		9.1	9.2
	dition	Pdh (declared heating cap)	kW	7.2	
	(12°C)				
	TBivalent	COPd (declared COP)		1.9	1.8
		Pdh (declared heating cap)	kW	27.9	31.0
		Tbiv (bivalent temperature)	°C	-10	
	TOL	COPd (declared COP)		1.9	1.8
Space heating	TOL	Pdh (declared heating cap)	kW	27.9	31.0
Average climate)		Tol (temperature operating	°C	-10	
recommended		limit)			
combination 2					
Space heating	A Con-	COPd (declared COP)		2.4	2.1
Average climate)	dition	Pdh (declared heating cap)	kW	24.7	27.4
recommended	(-7°C)				
combination 3		COPd (declared COP)		3.7	3.6
		Pdh (declared heating cap)	kW	15.0	16.7
		COPd (declared COP)		6.5	6.3
		Pdh (declared heating cap)	kW	9.7	10.7
	D Con-	COPd (declared COP)		8.7	
	dition	Pdh (declared heating cap)	kW	6.9	1
	(12°C)	CODITATE ALCORA		10	1.0
	ı bivalent	COPd (declared COP)	LAA	1.9	1.8
		Pdh (declared heating cap)	kW °C	27.9	31.0
	TOL	Tbiv (bivalent temperature) COPd (declared COP)		-10	
	TOL	Pdh (declared heating cap)	kW	1.9	1.8 31.0
		Tol (temperature operating	°C	27.9	
		limit)	C	-10	
Capacity range		mmi)	НР	18	20
PED	Category		THE	Catego	
	Most	Name		Accumi	,
	critical	Ps*V	Bar*l	49:	
	part		Dui I	45.	•
Maximum number	-	able indoor units		64 (3)
ndoor index	Min.			225.0	250.0
connection	Max.			585.0	650.0
Dimensions	Unit	Height	mm	1,68	
		Width	mm	1,24	
		Depth	mm	765	
	Packed	Height	mm	1,82	
	unit	Width	mm	1,30	
		Depth	mm	860	
Weight	Unit	-	kg	308	
	Packed ur	nit	kg	324	
Packing	Material			Cart	
	Weight		kg	2.2	
Packing 2	Material			Woo	od



1 - 1 RXYQ-U

Technical Spe		ns			RXYQ18U		RXYQ20U		
Packing 3	Material					Plastic			
	Weight			kg		0.6			
Casing	Colour					Daikin White			
	Material				Pair	ited galvanized steel p	late		
Heat exchanger	Туре					Cross fin coil			
	Indoor sic					Air			
	Outdoor					Air			
	Air flow	Cooling	Rated	m³/h	15,060		15,660		
	rate	Heating	Rated	m³/h	15,060		15,660		
Fan	Quantity					2			
	External	Max.		Pa		78			
	static								
	pressure								
Fan motor	Quantity					2			
	Туре					DC motor			
-	Output			W		750			
Compressor	Quantity					2			
	Туре				Hermet	ically sealed scroll com	npressor		
0	Crankcase			W		33			
Operation range	Cooling	Min.		°CDB		-5.0			
	Hacks	Max.		°CDB		43.0			
	Heating	Min.		°CWB		-20.0			
Camadaaaa	Carella	Max.		°CWB	03.074	15.5	070 (4)		
Sound power level		Nom.		dBA	83.8 (4)		87.9 (4)		
	Heating	Prated,h		dBA	85.3 (4)		89.8 (4)		
Sound pressure	Cooling	Nom.		dBA	62.0 (5)		65.0 (5)		
level	T					D 450.4			
Refrigerant	Туре					R-410A			
	GWP					2,087.5			
	Charge			TCO2Eq	24.4		24.6		
	Charge			kg	11.7		11.8		
Refrigerant oil	Туре				Syr	nthetic (ether) oil FVC6	68D		
Piping connections Lic	Liquid	Type				Braze connection			
		OD		mm		15.9			
	Gas	Туре				Braze connection			
		OD		mm	28.6				
	Total	System	Actual	m		1,000 (6)			
	piping								
56	length								
Defrost method						Reversed cycle			
Capacity control	Method					Inverter controlled			
Indication if the hea						no			
Supplementary	Back-up	Heating	elbu	kW		0.0			
heater	capacity	Coolin	DCV	Is\A/		0.000			
Power consump-	Crank-	Cooling	PCK	kW		0.000			
tion in other than active mode	case heater								
active mode	mode								
Dower concurs		Heating	PCK	kW		0.089			
Power consump- tion in other than	Crank- case	neating	rcn	KVV		0.089			
active mode	heater								
active mode	neater mode								
	Off mode	Cooling	POFF	kW		0.075			
	On mode	Heating	POFF	kW					
	Cton-ll-					0.089			
			PSB	kW		0.075			
	mode	Heating	PSB	kW		0.089			
	Thermo-		PTO	kW		0.010			
	stat-off	Heating	PTO	kW		0.098			
Caaliaa	mode		!:\			0.35			
	Cdc (Degr					0.25			
	Cdh (Deg		eating)			0.25			
Safety devices	Item	01				High pressure switch			
		02				driver overload prote			
		03			Inv	erter overload protec	tor		
		04				PC board fuse			
		05				eakage current detect			

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 1;

 $Standard\ accessories: Connection\ pipes;\ Quantity: 1;$



Electrical Sp	ecificatio	ns		RXYQ8U	RXYQ10U	RXYQ12U	RXYQ14U	RXYQ16U	
Power supply	Name					Y1			
	Phase			3N~					
	Frequenc	У	Hz	50					
	Voltage	,	V			380-415			
Power supply int	ake				Botl	n indoor and outdoo	r unit		
Voltage range	Min.		%	-10					
	Max.		%			10			
Current	Nominal	Cooling	Α	7.2 (7)	10.2 (7)	12.7 (7)	15.4 (7)	18.0 (7)	
	running current								
	(RLA)								
Current - 50Hz	Nominal	Combina- Cooling			1	-	'	ı	
	running	tion A							
	current (RLA)	Combina- Cooling tion B				-			
	Starting	current (MSC) - remark				See note 8			
	Zmax	List				No requirements	nts		
	Minimum	Ssc value	kVa	4,050 (9)	5,535 (9)	6,038 (9)	6,793 (9)	7,547 (9)	
	Minimum	circuit amps (MCA)	Α	16.1 (10)	22.0 (10)	24.0 (10)	27.0 (10)	31.0 (10)	
	Maximum	n fuse amps (MFA)	Α	20 (11)	25 (11)	32	(11)	40 (11)	
	Full load	Total	Α	1.2 (12)	1.3 (12)	1.5 (12)	1.8 (12)	2.6 (12)	
	amps								
	(FLA)								
Power Perfor-	Power	Combina- 35°C ISO - Ful				-			
mance	factor	tion B 46°C ISO - Fu	l load			-			
Wiring connec-	For	Quantity				5G			
tions - 50Hz	power								
	supply								
	For	Quantity				2			
	connec-	Remark				F1,F2			
	tion with								
	indoor								

Electrical Sp	ecifications		RXYQ18U	RXYQ20U			
Power supply	Name		Y1				
	Phase		3N~				
	Frequency	Hz	50				
	Voltage	V	380-4	415			
Power supply into	Name Phase Frequency Voltage e Min. Max. Nominal Cooling running current (RLA) Nominal Combina- Cooling running funning current (RLA) Nominal Combina- Cooling running tion A Combina- Cooling RLA) Starting current (MSC) - remark Zmax List Minimum Ssc value Minimum circuit amps (MCA) Maximum fuse amps (MFA) Full load Total amps (FLA) Power Combina- 35°C ISO - Full load factor tion B 46°C ISO - Full load factor Quantity power		Both indoor and	l outdoor unit			
Voltage range	Min.	%	-10				
	Max.	%	10				
Current	running current	A	20.8 (7)	26.9 (7)			
r (<u>.</u> 2	running tion A		-				
	(RLA) tion B		-				
		ark	See no				
			No requirements				
		kVa	8,805 (9)	9,812 (9)			
			35.0 (10)	39.0 (10)			
		A	40 (11)	50 (11)			
	amps	A	2.6 (1	12)			
Power Perfor-	Power Combina- 35°C IS	O - Full load	-				
mance	factor tion B 46°C IS	O - Full load	-				
Wiring connec- tions - 50Hz	• •		5G				
	For Quantity		2				
	connec- Remark tion with indoor		F1,F	2			

⁽S)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |

(9)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply wih Ssc ≥ minimum Ssc value |



⁽¹⁾Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: $0m \mid (2)$ Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: $0m \mid (2)$ Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: $0m \mid (2)$ Heating: m

⁽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 (50% <= CR <= 130%) |
(4) Sound power level is an absolute value that a sound source generates.

⁽⁵⁾Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.

⁽⁶⁾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 |



RXYQ-U

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

(11)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). | (12)FLA means the nominal running current of the fan |

(13) Maximum allowable voltage range variation between phases is 2%.

(14)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
(15)The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Pump operation, taking into account advanced energy saving operation funcitonality (variable refrigerant temperature) (16)The STANDARD ESEER value corresponds with normal VRV4 Heat Pump operation, not taking into account advanced energy saving operation functionality | (17)Sound values are measured in a semi-anechoic room. |

(17)30010 Values are ineasured un a semi-mection count.]
(18)Soundpressure system [dBA] = 10*log[10^(A/10)+10^(B/10)+10^(C/10)], with Unit A = A dBA, Unit B = B dBA, Unit C = C dBA |
(19)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 |

(20)Ssc: Short-circuit power

(21)For detailed contents of standard accessories, see installation/operation manual | (22)Multi combination (22~54HP) data is corresponding with the standard multi combination

Technical spe	ecifications System		RXYQ22U	RXYQ24U	RXYQ26U	RXYQ28U	RXYQ30U
System	Outdoor unit module 1		RXYQ10U	RXYQ8U		RXYQ12U	
	Outdoor unit module 2		RXYQ12U	RXYQ16U	RXYQ14U	RXYQ16U	RXYQ18U
Recommended co	ombination		6 x FXFQ50AVEB + 4	4 x FXFQ50AVEB + 4	7 x FXFQ50AVEB + 5	6 x FXFQ50AVEB + 4	9 x FXFQ50AVEB + 5
			x FXFQ63AVEB	x FXFQ63AVEB + 2 x FXFQ80AVEB	x FXFQ63AVEB	x FXFQ63AVEB + 2 x FXFQ80AVEB	x FXFQ63AVEB
Recommended co	ombination 2		6 x FXSQ50A2VEB +	4 x FXSQ50A2VEB +	7 x FXSQ50A2VEB +	6 x FXSQ50A2VEB +	9 x FXSQ50A2VEB +
			4 x FXSQ63A2VEB	4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	5 x FXSQ63A2VEB	4 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	5 x FXSQ63A2VEB
Recommended co	ombination 3		6 x FXMQ50P7VEB +	4 x FXMQ50P7VEB +	7 x FXMQ50P7VEB +		9 x FXMQ50P7VEB -
				4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB		4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	
Cooling capacity	Prated,c	kW	61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)	83.9 (1)
Heating capacity	Nom. 6°CWB	kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)
	Prated,h	kW	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)	83.9 (2)
	Max. 6°CWB	kW	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)	94.0 (2)
Power input - 50H		kW	17.23 (2)	17.94 (2)	20.33 (2)	22.19 (2)	23.87 (2)
COP at nom.	6°CWB	kW/kW	3.57 (2)	3.76 (2)	3.61 (2)	3.54 (2)	3.51 (2)
· · ·			7.07	6 01	6.00	6.60	6.60
ESEER - Automatio	<u> </u>		7.07	6.81	6.89	6.69	6.60
ESEER - Standard			5.58	5.42	5.39	5.23	5.17
SCOP			4.4	4.3		.2	4.3
	ded combination 2		4.4	4.3		.2	4.3
	ded combination 3		4.3		4.2	1	4.3
SEER			6.9	6.8	6.7		.5
SEER recommend	ed combination 2		6.7	6.6	6.5	6	.3
SEER recommend	ed combination 3		6.9	6.7	6.6	6.4	6.5
ηs,c		%	274.5	269.9	264.2	257.8	256.8
ηs,c recommende	ed combination 2		266.5	262.6	256.1	249.3	249.8
ηs,c recommende	ed combination 3		273.3	265.3	261.1	253.1	256.1
ηs,h		%	171.2	167.0	164.6	166.0	169.8
ηs,h recommende	ed combination 2		172.3	167.1	165.4	166.8	170.6
ηs,h recommende			170.2	165.5	164.5	165.0	167.0
Space cooling	A Condi- EERd		2.6	2.5	2.6	2.3	2.1
3	tion (35°C Pdc - 27/19)	kW	61.5	67.4	73.5	78.5	83.9
	B Condi- EERd		4.8	Δ	.6	4.4	4.3
	tion (30°C Pdc	kW	45.3	49.7	54.2	57.8	61.8
	- 27/19)	KVV					
	C Condi- EERd		8.5	8.6	8.2	8.1	8.2
	tion (25°C Pdc - 27/19)	kW	29.1	31.9	34.8	37.2	39.7
	D Condi- EERd		16.0	15.2	14.2	14.3	16.8
	tion (20°C Pdc - 27/19)	kW	18.8	15.8	16.2	16.5	21.0
Space cooling	A Condi- EERd		2.6	2.4	2.6	2.3	2.1
recommended combination 2	tion (35°C Pdc - 27/19)	kW	61.5	67.4	73.5	78.5	83.9
	B Condi- EERd tion (30°C - 27/19)		4.6	4.5	4.4	4.3	4.2
Space cooling recommended combination 2	B Condi- Pdc tion (30°C - 27/19)	kW	45.3	49.7	54.1	57.8	61.8
	C Condi- EERd		8.2	8.4	7.9	7.8	7.9
	tion (25°C Pdc - 27/19)	kW	29.1	31.9	34.8	37.2	39.7
	D Condi- EERd		15.6	14.7	13.6	13.8	16.1
	tion (20°C Pdc - 27/19)	kW	18.4	15.4	15.7	16.5	20.5



Technical spe				RXYQ22U	RXYQ24U	RXYQ26U	RXYQ28U	RXYQ30
Space cooling	A Condi-		1.10		2.5		2.3	2.1
ecommended	tion (35°C	Pdc	kW	61.5	67.4	73.5	78.5	83.9
combination 3	- 27/19) B Condi-	EEDd		4.8		1.5	4	.3
	tion (30°C		kW	45.3	49.7	54.2	57.8	61.8
	- 27/19)	ruc	KVV	45.5	75.7	34.2	37.0	01.0
	C Condi-	FFRd		8.5	8.4	8.1	8.0	8.2
	tion (25°C		kW	29.1	31.9	34.8	37.2	39.7
	- 27/19)			25	3	36	37.2	35.7
	D Condi-	EERd		15.8	15.2	14.0	14.1	16.6
	tion (20°C	Pdc	kW	18.8	15.7	16.0	16.6	21.0
	- 27/19)							
Space heating	TBivalent	COPd (declared COP)		2.3	2.5	2.3	2.2	2.1
Average climate)		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tbiv (bivalent temperature)	°C			-10		
	TOL	COPd (declared COP)		2.3	2.5	2.3	2.2	2.1
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tol (temperature operating	°C			-10		
		limit)		2.6	2.0			
	A Con-	COPd (declared COP)	LAA	2.6	2.8	24.5	2.6	41.0
	dition (-7°C)	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0
	(-7°C)	COPd (declared COP)		4.0	3.7	2	3.8	3.9
		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9
		COPd (declared COP)	KVV		5.3	6.1	6.2	6.5
		Pdh (declared heating cap)	kW	11.9	13.0	13.5	14.4	16.0
	D Con-	COPd (declared COP)	IZ A A	8.2	8.9	8.8		.0
	dition	Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.1
	(12°C)	. απ (αcciarca neating cap)	I/ A A	0.0	5.7	0.0	0.4	/.1
Space heating	A Con-	COPd (declared COP)		2.6	2.7		2.6	
Average climate)	dition	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0
ecommended	(-7°C)	, , , , , , , , , , , , , , , , , , , ,						
combination 2	B Condi-	COPd (declared COP)		4.1	3.7	3	3.8	3.9
	tion (2°C)	Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9
	C Condi-	COPd (declared COP)		6	5.3	6.1	6.3	6.6
	tion (7°C)	Pdh (declared heating cap)	kW	11.9	1	3.1	14.4	16.0
	D Con-	COPd (declared COP)		8.4	9.0	8.9	9	.1
	dition	Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.2
	(12°C)							
	TBivalent	COPd (declared COP)		2.2	2.4	+	2.2	2.1
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
Space heating		Tbiv (bivalent temperature)	°C			-10		
Average climate)	TOL	COPd (declared COP)		2.2	2.4		2.2	2.1
recommended		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
combination 2		Tol (temperature operating	°C			-10		
b	A C	limit)		2.6	2.7	1		2.5
Space heating	A Con-	COPd (declared COP)	1-14/	2.6	2.7		2.6	2.5
Average climate)	dition	Pdh (declared heating cap)	kW	30.4	32.6	34.5	36.8	41.0
ecommended combination 3	(-7°C)	COPd (declared COP)		4.0	3.7	1	3.8	3.9
.011101111111101113		Pdh (declared heating cap)	kW	18.5	19.9	21.0	22.4	24.9
		COPd (declared COP)	KVV	6.2	6.3	6.1	6.2	6.3
		Pdh (declared heating cap)	kW	11.9	12.9	13.5	14.4	16.0
	D Con-	COPd (declared COP)	KVV	8.2	8.9	8.8	9.0	8.6
	dition	Pdh (declared heating cap)	kW	6.0	5.7	6.0	6.4	7.1
	(12°C)	r an (accidied neathing cap)	IZ A A	0.0	J.,	0.0	0.4	/.1
		COPd (declared COP)		2.3	2.4	7	2.2	2.1
	· Sivaicill	Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tbiv (bivalent temperature)		<u> </u>	, 55.5	-10		.0.5
	TOL	COPd (declared COP)	-	2.3	2.4		2.2	2.1
		Pdh (declared heating cap)	kW	34.4	36.9	39.0	41.6	46.3
		Tol (temperature operating	°C			-10		
		limit)	-			: -		
apacity range		<u>. </u>	HP	22	24	26	28	30
PED	Category					Category II		
Maximum number		able indoor units				64 (3)		
ndoor index	Min.			275.0	300.0	325.0	350.0	375.0
connection	Max.			715.0	780.0	845.0	910.0	975.0
leat exchanger	Indoor sic	de				Air		
	Outdoor	side				Air		
	Air flow	Cooling Rated	m³/h	21,600	25,320	24,480	26,700	26,160
	rate	Heating Rated	m³/h	21,600	25,320	24,480	26,700	26,160



Technical spe	cificatio	ns Syst	em		RXYQ22U	RXYQ24U	RXYQ26U	RXYQ28U	RXYQ30U
Sound power level	Cooling	Nom.		dBA	84.8 (4)	86.3 (4)	85.3 (4)	87.6 (4)	86.6 (4)
	Heating	Prated,h		dBA	85.4 (4)	87.3 (4)	86.3 (4)	88.3 (4)	87.5 (4)
Sound pressure	Cooling	Nom.		dBA	62.5 (5)	64.0 (5)	63.5 (5)	65.1 (5)	64.5 (5)
level									
Refrigerant	Type						R-410A		
	GWP						2,087.5		
Refrigerant oil	Type					Syn	thetic (ether) oil FVC	68D	
Piping connections	Liquid	Type					Braze connection		
		OD		mm	1:	5.9		19.1	
	Gas	Type					Braze connection		
		OD		mm	28.6		34	4.9	
Piping connections	s Total	System	Actual	m			1,000 (6)		
	piping length								
Indication if the he	ater is equi	pped with	n a suppleme	ntary heater			no		
Supplementary	Back-up	Heating	elbu	kW			0.0		
heater	capacity								
Power consump-	Crank-	Cooling	PCK	kW			0.000		
tion in other than	case	Heating	PCK	kW	0.103		0.129		0.141
active mode	heater								
	mode								
	Off mode		POFF	kW	0.081		0.115		0.116
		Heating	POFF	kW	0.103		0.129		0.141
	Standby	Cooling	PSB	kW	0.081		0.115		0.116
	mode	Heating	PSB	kW	0.103		0.129		0.141
	Thermo-	Cooling	PTO	kW	0.009			014	
	stat-off	Heating	PTO	kW	0.113		0.154		0.155
	mode								
Cooling		radation c					0.25		
Heating	Cdh (Deg	radation h	neating)				0.25		

Technical spe	cificatio	ns System		RXYQ32U	RXYQ34U	RXYQ36U	RXYQ38U	RXYQ40U
System	Outdoor (unit module 1			RXYQ16U		RXYQ8U	RXYQ10U
	Outdoor u	unit module 2		RXYQ16U	RXYQ18U	RXYQ20U	RXYQ10U	RXYQ12U
	Outdoor u	unit module 3			-		RXYQ20U	RXYQ18U
Recommended co	mbination			8 x FXFQ63AVEB + 4	3 x FXFQ50AVEB + 9	2 x FXFQ50AVEB +	6 x FXFQ50AVEB +	9 x FXFQ50AVEB + 9
				x FXFQ80AVEB	x FXFQ63AVEB + 2 x	10 x FXFQ63AVEB +	10 x FXFQ63AVEB	x FXFQ63AVEB
					FXFQ80AVEB	2 x FXFQ80AVEB		
Recommended co	mbination 2	2		8 x FXSQ63A2VEB +	3 x FXSQ50A2VEB +	2 x FXSQ50A2VEB +	6 x FXSQ50A2VEB +	9 x FXSQ50A2VEB +
				4 x FXSQ80A2VEB	9 x FXSQ63A2VEB +	10 x FXSQ63A2VEB	10 x FXSQ63A2VEB	9 x FXSQ63A2VEB
					2 x FXSQ80A2VEB	+ 2 x FXSQ80A2VEB		
Recommended co	mbination 3	3		8 x FXMQ63P7VEB +	3 x FXMQ50P7VEB +	2 x FXMQ50P7VEB +	6 x FXMQ50P7VEB +	9 x FXMQ50P7VEB
				4 x FXMQ80P7VEB	9 x FXMQ63P7VEB +	10 x FXMQ63P7VEB	10 x FXMQ63P7VEB	+ 9 x FXMQ63P7VEB
					2 x FXMQ80P7VEB	+ 2 x FXMQ80P7VEB		
Cooling capacity	Prated,c		kW	90.0 (1)	95.4 (1)	97.0 (1)	102.4 (1)	111.9 (1)
Heating capacity	Nom.	6°CWB	kW	90.0 (2)	95.4 (2)	101.0 (2)	106.4 (2)	111.9 (2)
	Prated,h		kW	90.0 (2)	95.4 (2)	101.0 (2)	106.4 (2)	111.9 (2)
	Max.	6°CWB	kW	100.0 (2)	106.5 (2)	113.0 (2)	119.5 (2)	125.5 (2)
Power input - 50Hz	z Heating	Nom. 6°CWB	kW	25.08 (2)	26.76 (2)	30.02 (2)	30.45 (2)	31.45 (2)
COP at nom.	6°CWB		kW/kW	3.59 (2)	3.56 (2)	3.36 (2)	3.49 (2)	3.56 (2)
capacity								
ESEER - Automatic	:			6.50	6.44	6.02	6.36	6.74
ESEER - Standard				5.05	5.01	4.68	5.03	5.29
SCOP				4	.2	4.1	4	.3
SCOP recommend				4.2	4.3	4.2	4.3	4.4
SCOP recommend	led combina	ation 3		4.1	4.2	4.1	4.2	4.3
SEER				6	.4	6.3	6.9	6.7
SEER recommende	ed combina	tion 2			6.3		6.8	6.6
SEER recommende	ed combina	tion 3		6.2	6	.3	6.9	6.7
ηs,c			%	251.7	253.3	250.8	272.4	263.5
ηs,c recommende	d combinati	ion 2		248.3	250.9	248.7	269.2	259.2
ηs,c recommende	d combinati	ion 3		244.2	249.8	247.2	272.2	263.2
ηs,h			%	163.1	166.2	162.4	167.5	170.0
ηs,h recommende	d combinat	ion 2		164.6	167.7	164.1	168.4	171.3
ηs,h recommende	d combinat	ion 3		161.9	164.2	159.9	164.8	167.8



Technical spe				RXYQ32U	RXYQ34U	RXYQ36U	RXYQ38U	RXYQ40U
Space cooling	A Condi- tion (35°C - 27/19)		kW	90.0	95.4	97.0	2.4 102.4	2.2 111.9
	B Condi-	FFRd		4.3	4.2	4.1	4	.5
	tion (30°C - 27/19)		kW	66.3	70.3	71.5	75.5	82.5
	C Condi-	EERd		8	3.1	7.9	8.5	8.3
	tion (25°C - 27/19)		kW	42.6	45.2	45.9	48.5	53.0
	D Condi-	EERd		14.3	16.8	16.7	17.9	16.0
	tion (20°C - 27/19)	Pdc	kW	19.0	20.1	20.4	21.6	23.6
oace cooling	A Condi-	EERd		2.2	2	2.1	2.3	2.2
ecommended ombination 2	tion (35°C - 27/19)	Pdc	kW	90.0	95.4	97.0	102.4	111.9
pace cooling	B Condi-	EERd		4	2	4.1	4.5	4.4
ecommended ombination 2	tion (30°C - 27/19)	Pdc	kW	66.3	70.3	71.5	75.4	82.4
	C Condi-	EERd		8.0	8.1	7.9	8.4	8.1
	tion (25°C - 27/19)		kW	42.6	45.2	45.9	48.5	53.0
	D Condi-	EERd		14.0	16	6.5	17.8	15.9
	tion (20°C - 27/19)		kW	18.9	20.1	20.4	21.6	23.6
pace cooling	A Condi-	EERd		2.2	2	2.1	2.4	2.2
ecommended ombination 3	tion (35°C - 27/19)		kW	90.0	95.4	97.0	102.4	111.9
J.I.DIIIGGOH J	B Condi-	EERd			l.1	4.0	4.5	4.4
	tion (30°C - 27/19)		kW	66.3	70.3	71.5	75.5	82.5
	C Condi-	EERd		7.8	8.0	7.8	8.5	8.4
	tion (25°C - 27/19)		kW	42.6	45.2	45.9	48.5	53.0
	D Condi-	FFRd		13.8	16.6	16.5	17.9	16.1
	tion (20°C - 27/19)		kW	19.0	20.1	20.4	21.6	23.6
pace heating		COPd (declared COP)		2.4	2.2	2.1	2	.2
verage climate)		Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
		Tbiv (bivalent temperature)	°C		'	-10	'	
	TOL	COPd (declared COP)		2.4	2.2	2.1	2	.2
		Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
		Tol (temperature operating limit)	°C			-10		
	A Con-	COPd (declared COP)		2.7	2.6		2.5	2.6
	dition (-7°C)	Pdh (declared heating cap)	kW	41.0	45.2	47.9	53.7	55.1
		COPd (declared COP)	1141	3.6		3.7	3.9	4.0
		Pdh (declared heating cap)	kW	25.0	27.5	29.2	32.7	33.5
		COPd (declared COP) Pdh (declared heating cap)	kW	6.3	6.5	6.4	21.3	.5 21.6
	D Con-	COPd (declared COP)	IV.V.V	9.0	8.8	8.6		.7
	dition (12°C)	Pdh (declared heating cap)	kW	7.1	7.9	8.3		3.1
pace heating	A Con-	COPd (declared COP)		2.7	2.6	2	2.5	2.6
Average climate)	dition (-7°C)	Pdh (declared heating cap)	kW	41.0	45.2	47.9	53.7	55.1
ombination 2		COPd (declared COP)		3.6	3.8	3.7	3.9	4.0
		Pdh (declared heating cap)	kW	25.0	27.5	29.2	32.7	33.5
		COPd (declared COP)		6.3	6.6		6.5	
		Pdh (declared heating cap)	kW	16.1	17.7	18.8	21.3	21.6
	D Con- dition	COPd (declared COP) Pdh (declared heating cap)	kW	9.1 7.1	8.9 7.9	8.3	8.8	3.2
	(12°C)							
		COPd (declared COP)		2.4		2.2	2.3	2.2
pace heating	TBivalent	Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
Average climate)	TO!	Tbiv (bivalent temperature)	°C			-10		
commended	TOL	COPd (declared COP)	1-14/	2.4	†	2.2	2.3	2.2
		Pdh (declared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
ombination 2		Tol (temperature operating	°C			-10		



Technical spe	cificatio	ns Syst	em		RXYQ32U	RXYQ34U	RXYQ36U	RXYQ38U	RXYQ40U
Space heating	A Con-	COPd (de	eclared COP)		2.7	2.6	2.4	2.5	2.6
(Average climate)	dition	Pdh (dec	lared heating cap)	kW	41.0	45.2	47.9	53.7	55.1
recommended	(-7°C)								
combination 3			clared COP)		3.6	3.7	3.6	3.8	3.9
			lared heating cap)	kW	25.0	27.5	29.2	32.7	33.5
			clared COP)		6.3	6.4		.3	6.4
			lared heating cap)	kW	16.1	17.7	18.8	21.2	21.6
	D Con-		clared COP)		9.0	8.9	8.3	8.5	8.4
	dition (12°C)	Pdh (dec	lared heating cap)	kW	7.1	7.9	8.3	12.9	12.8
	TBivalent	COPd (de	clared COP)		2.4	2.2	2.1	2	.2
		Pdh (dec	lared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
		Tbiv (biv	alent temperature)	°C			-10		
	TOL	COPd (de	clared COP)		2.4	2.2	2.1	2	.2
		Pdh (dec	lared heating cap)	kW	46.4	51.1	54.2	60.7	62.3
		Tol (temp	perature operating	°C			-10		
Capacity range				HP	32	34	36	38	40
PED	Category				-		Category II		-
Maximum number			or units				64 (3)		
Indoor index	Min.				400.0	425.0	450.0	475.0	500.0
connection	Max.				1,040.0	1,105.0	1,170.0	1,235.0	1,300.0
Heat exchanger	Indoor sid	de			7,2 1212	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Air	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,00010
	Outdoor						Air		
	Air flow	Cooling	Rated	m³/h	31,200	30,660	31,260	35,880	36,660
	rate	Heating	Rated	m³/h	31,200	30,660	31,260	35,880	36,660
Sound power level		Nom.	natea	dBA	88.6 (4)	87.8 (4)	89.9 (4)	88.8 (4)	87.3 (4)
Souria power level	Heating	Prated.h		dBA	89.5 (4)	88.9 (4)	91.5 (4)	90.7 (4)	88.4 (4)
Sound pressure	Cooling	Nom.		dBA	66.0 (5)	65.5 (5)	67.1 (5)	66.2 (5)	65.2 (5)
level Refrigerant	Tuno						R-410A		
Reingerant	Type GWP						2,087.5		
Refrigerant oil						Cum	thetic (ether) oil FVC	60D	
	Type	Tuno				Syl		000	
Piping connections	Liquid	Type OD		no no			Braze connection 19.1		
	C			mm					
D:	Gas	Туре			2	4.0	Braze connection	41.2	
Piping connections		OD		mm	34	1.9	1 000 (6)	41.3	
	Total piping	System	Actual	m			1,000 (6)		
	length								
Indication if the hea		• •					no		
Supplementary	Back-up	Heating	elbu	kW			0.0		
heater	capacity	C!!	DCK	LAAZ			0.000		
Power consump-	Crank-	Cooling	PCK	kW	0.15.4	1	0.000		00
tion in other than	case	Heating	PCK	kW	0.154	0.1	166	0.1	92
active mode	heater								
	mode	C !!	DOFF	1.147	0110		150		
	Off mode		POFF	kW	0.149		150		57
	· "	Heating	POFF	kW	0.154		166		92
	Standby		PSB	kW	0.149		150		57
	mode	Heating		kW	0.154	0.1	166	0.1	92
	Thermo-		PTO	kW		ı	0.019	ı	
	stat-off	Heating	PTO	kW	0.195	0.1	196	0.3	211
	mode								
Cooling	Cdc (Deg						0.25		
Heating	Cdh (Dog	radation h					0.25		

Technical :	specifications System		RXYQ42U	RXYQ44U	RXYQ46U	RXYQ48U	RXYQ50U
System	Outdoor unit module 1		RXYQ10U	RXYQ12U	RXYQ14U	RXY	Q16U
	Outdoor unit module 2				RXYQ16U		
	Outdoor unit module 3			RXY	Q16U		RXYQ18U
Recommende	d combination		12 x FXFQ63AVEB +	6 x FXFQ50AVEB + 8	1x FXFQ50AVEB +	12 x FXFQ63AVEB +	3 x FXFQ50AVEB +
			4 x FXFQ80AVEB	x FXFQ63AVEB + 4 x	13 x FXFQ63AVEB +	6 x FXFQ80AVEB	13 x FXFQ63AVEB +
				FXFQ80AVEB	4 x FXFQ80AVEB		4 x FXFQ80AVEB
Recommende	d combination 2		12 x FXSQ63A2VEB	6 x FXSQ50A2VEB +	1x FXSQ50A2VEB +	12 x FXSQ63A2VEB	3 x FXSQ50A2VEB +
			+ 4 x FXSQ80A2VEB	8 x FXSQ63A2VEB +	13 x FXSQ63A2VEB	+6 x FXSQ80A2VEB	13 x FXSQ63A2VEB
				4 x FXSQ80A2VEB	+4xFXSQ80A2VEB		+ 4 x FXSQ80A2VEB
Recommende	d combination 3		12 x FXMQ63P7VEB	6 x FXMQ50P7VEB +	1 x FXMQ50P7VEB +	12 x FXMQ63P7VEB	3 x FXMQ50P7VEB +
			+4xFXMQ80P7VEB	8 x FXMQ63P7VEB +	13 x FXMQ63P7VEB	+6 x FXMQ80P7VEB	13 x FXMQ63P7VEB
				4 x FXMQ80P7VEB	+4xFXMQ80P7VEB		+ 4 x FXMQ80P7VEB
Cooling capac	ity Prated,c	kW	118.0 (1)	123.5 (1)	130.0 (1)	135.0 (1)	140.4 (1)



Technical spe				RXYQ42U	RXYQ44U	RXYQ46U	RXYQ48U	RXYQ50
Heating capacity		CWB	kW	118.0 (2)	123.5 (2)	130.0 (2)	135.0 (2)	140.4 (2)
	Prated,h		kW	118.0 (2)	123.5 (2)	130.0 (2)	135.0 (2)	140.4 (2)
		CWB	kW	131.5 (2)	137.5 (2)	145.0 (2)	150.0 (2)	156.5 (2)
ower input - 50Hz		m. 6°CWB	kW	32.66 (2)	34.73 (2)	35.77 (2)	37.62 (2)	39.30 (2)
OP at nom. apacity	6°CWB		kW/kW	3.61 (2)	3.56 (2)	3.63 (2)	3.59 (2)	3.57 (2)
SEER - Automatic				6.65	6.62	6.60	6.50	6.46
SEER - Standard				5.19	5.17	5.13	5.05	5.02
COP				4	.2	4	l.1	4.2
COP recommend				4.3	l.2		l.1	4.2
SEER				6.6	6.5		6.4	
SEER recommende	ad combination	. 2		6.6	6.3	6.4		.3
SEER recommende				6.5		5.3	6.2	6.3
ηs,c	ed combination	13	%	261.2	255.9	254.9	251.7	252.8
ηs,c recommended	d combination	າ	70	259.3	249.2	252.2	248.3	250.0
ηs,c recommended				255.4	250.1	248.3	244.2	248.0
	u combination.	.	%					
ηs,h	1 11 11	•	90	165.5	164.5	162.0	162.8	165.2
ηs,h recommende				167.3	165.6	163.5	164.3	166.7
րs,h recommende				164.4	163.5	161.3	161.7	163.2
space cooling	A Condi- EEI				3	2.4	2.3	2.1
	tion (35°C Pd	С	kW	118.0	123.5	130.0	135.0	140.4
	- 27/19)	- 1						
	B Condi- EE				4.4		4.3	4.2
	tion (30°C Pd	С	kW	86.9	91.0	95.8	99.5	103.4
	- 27/19)							
	C Condi- EE			8.2		8	3.1	
	tion (25°C Pd	c	kW	55.9	58.5	61.6	64.0	66.5
	- 27/19)							
	D Condi- EE	Rd		15.4	14.4	14	1.3	15.9
	tion (20°C Pd	С	kW	24.8	26.0	27.4	28.4	29.6
- I.	- 27/19)	D. I.						24
Space cooling	A Condi- EE		1341	440.0	2.3	420.5	2.2	2.1
recommended	tion (35°C Pd	С	kW	118.0	123.5	130.0	135.0	140.4
combination 2	- 27/19)	0.1				1.2		
Space cooling	B Condi- EE			4.4		1.3		.2
recommended	tion (30°C Pd	С	kW	86.9	91.0	95.8	99.5	103.5
combination 2	- 27/19)							
	C Condi- EE			8.2	7.9	8.1	8	
	tion (25°C Pd	С	kW	55.9	58.5	61.6	63.9	66.5
	- 27/19)							
	D Condi- EE			15.3		14.0		15.6
	tion (20°C Pd	С	kW	24.8	26.0	27.4	28.4	29.6
	- 27/19)							
Space cooling	A Condi- EE				2.3		2.2	2.1
recommended	tion (35°C Pd	C	kW	118.0	123.5	130.0	135.0	140.4
combination 3	- 27/19)							
	B Condi- EE	Rd		4	.3	4.2	4	.1
	tion (30°C Pd	С	kW	87.0	91.0	95.8	99.5	103.5
	- 27/19)							
	C Condi- EE	Rd		8.0	7	7.9	7.8	7.9
	tion (25°C Pd		kW	55.9	58.5	61.6	63.9	66.5
	- 27/19)							
	D Condi- EE	Rd		15.2	14.2	13.9	13.8	15.6
	tion (20°C Pd		kW	24.8	26.0	27.4	28.4	29.6
	- 27/19)							
Space heating		Pd (declared COP)		2.4	2.3	2	.4	2.3
Average climate)		h (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3
c. age cilinate)		iv (bivalent temperature)		V2.7	U T.U	-10	07.0	77.5
		Pd (declared COP)		2.4	2.3	1	.4	2.3
		h (declared heating cap)	kW			+		
				62.4	64.8	67.0	69.6	74.3
	loi lim	(temperature operating	°C			-10		
		Pd (declared COP)				2.7		
			1-14/		F72	2.7	(1.5	257
		h (declared heating cap)	kW	55.2	57.3	59.3	61.6	65.7
	(-7°C)	D1/1 1 1000		-	<u> </u>			
		Pd (declared COP)	1141		3.7		.6	3.7
		h (declared heating cap)	kW	33.6	34.9	36.1	37.5	40.0
		Pd (declared COP)		6	.3	6.2	6.3	6.5
	tion (7°C) Pd	h (declared heating cap)	kW	21.6	22.4	23.2	24.1	25.7
	D Con- CO	Pd (declared COP)		8	5.6	8.7	8.8	8.9
	dition Pd	h (declared heating cap)	kW	9.9	10.0	10.3	10.7	12.0
					1	1	1	



Space heating	cificatio A Con-	ns System COPd (declared COP)		RXYQ42U	RXYQ44U	RXYQ46U 2.7	RXYQ48U	RXYQ50U
(Average climate) recommended	dition (-7°C)	Pdh (declared heating cap)	kW	55.2	57.3	59.3	61.6	65.7
combination 2		COPd (declared COP)		3	J	3	.6	3.7
		Pdh (declared heating cap)	kW	33.6	34.9	36.1	37.5	40.0
		COPd (declared COP)		6.4		6.3		6.5
	tion (7°C)	Pdh (declared heating cap)	kW	21.6	22.4	22.8	24.1	25.7
	D Con-	COPd (declared COP)		8	3.7	8.8	8.9	9.0
	dition (12°C)	Pdh (declared heating cap)	kW	10	0.0	10.3	10.7	12.2
	TBivalent	COPd (declared COP)		2.4	2.3	2	.4	2.3
pace heating	TBivalent	Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3
Average climate)		Tbiv (bivalent temperature)	°C			-10		
ecommended	TOL	COPd (declared COP)		2.4	2.3		.4	2.3
combination 2		Pdh (declared heating cap) Tol (temperature operating	°C	62.4	64.8	67.0 -10	69.6	74.3
		limit)				_		
pace heating	A Con-	COPd (declared COP)		2.7	2.6	2		2.6
Average climate) ecommended	dition (-7°C)	Pdh (declared heating cap)	kW	55.2	57.3	59.3	61.6	65.7
ombination 3		COPd (declared COP)	1.14/		34.0	261	3.6	40.0
		Pdh (declared heating cap) COPd (declared COP)	kW	33.6 6.3	34.9	.2	37.5 6.3	40.0 6.4
		Pdh (declared heating cap)	kW	21.6	22.4	23.2	24.1	25.7
	D Con-	COPd (declared COP)	VAA		3.6	8.7	8.8	8.7
	dition (12°C)	Pdh (declared heating cap)	kW	9.9	10.0	10.3	10.7	11.8
		COPd (declared COP)		2.4	2.3	2	.4	2.2
	· Divalent	Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3
		Tbiv (bivalent temperature)		0211	00	-10	0510	,
	TOL	COPd (declared COP)		2.4	2.3		.4	2.2
		Pdh (declared heating cap)	kW	62.4	64.8	67.0	69.6	74.3
		Tol (temperature operating limit)	°C			-10		
apacity range		·	HP	42	44	46	48	50
PED	Category					Category II		
Maximum number	of connect	able indoor units				64 (3)		
ndoor index	Min.			525.0	550.0	575.0	600.0	625.0
onnection	Max.			1,365.0	1,430.0	1,495.0	1,560.0	1,625.0
leat exchanger	Indoor sid					Air Air		
	Air flow	Cooling Rated	m³/h	41,700	42,300	44,580	46,800	46,260
	rate	Heating Rated	m³/h	41,700	42,300	44,580	46,800	46,260
Sound power level		Nom.	dBA	89.1 (4)	89.8 (4)	89.3 (4)	90.4 (4)	89.8 (4)
ouria power lever	Heating	Prated,h	dBA	90.1 (4)	90.5 (4)	90.4 (4)	91.3 (4)	90.9 (4)
Sound pressure	Cooling	Nom.	dBA			JU.T (T)		JU.J (¬)
		Nom.	ab/t	66.5 (5)	67.2 (5)	67.0 (5)	67.8 (5)	67.5 (5)
	Туре		db/t		67.2 (5)	67.0 (5) R-410A	67.8 (5)	67.5 (5)
	Type GWP	TVOIII.			67.2 (5)		67.8 (5)	67.5 (5)
Refrigerant		Non.				R-410A		67.5 (5)
Refrigerant Refrigerant oil	GWP Type	Туре				R-410A 2,087.5		67.5 (5)
Refrigerant Refrigerant oil	GWP Type		mm			R-410A 2,087.5 thetic (ether) oil FVC		67.5 (5)
defrigerant defrigerant oil Piping connections	GWP Type Liquid Gas	Туре				R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection		67.5 (5)
Refrigerant Refrigerant oil Piping connections	GWP Type Liquid Gas	Type OD				R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1		67.5 (5)
evel Refrigerant Refrigerant oil Piping connections Piping connections	GWP Type Liquid Gas Gas Total piping	Type OD Type	mm			R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection		67.5 (5)
Refrigerant Refrigerant oil Piping connections Piping connections	GWP Type Liquid Gas Gas Total piping length	Type OD Type OD System Actual	mm mm m			R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6)		67.5 (5)
Refrigerant Refrigerant oil Piping connections Piping connections Refrigerant oil Refrigerant	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up	Type OD Type OD	mm mm m			R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3		67.5 (5)
Refrigerant Refrigerant oil Piping connections Piping connections Refrigerant oil Refrigerant	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up capacity	Type OD Type OD System Actual pped with a supplementary left.	mm m m			R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6)		67.5 (5)
Refrigerant Refrigerant oil Piping connections Piping connections Indication if the head Supplementary The ater Power consumption in other than	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater	Type OD Type OD System Actual	mm mm m	66.5 (5)		R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) no 0.0		0.243
Refrigerant Refrigerant oil Piping connections Piping connections Indication if the head Supplementary The ater Power consumption in other than	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater mode	Type OD Type OD System Actual Ipped with a supplementary I Heating elbu Cooling PCK Heating PCK	mm m m heater kW kW	0.2	Syn	R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) no 0.0 0.000	58D	0.243
Refrigerant Refrigerant oil Piping connections Piping connections Indication if the head Repplementary Reater Rower consumption in other than	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater	Type OD Type OD System Actual Speed with a supplementary I Heating elbu Cooling PCK Heating PCK Cooling POFF	mm m meater kW kW kW	0.2	Syn 206	R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) no 0.0 0.000	231 223	0.243
Refrigerant Refrigerant oil Piping connections Piping connections Indication if the head Repplementary Reater Rower consumption in other than	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode	Type OD Type OD System Actual Speed with a supplementary I Heating elbu Cooling PCK Heating PCK Cooling POFF Heating POFF	mm m meater kW kW kW kW	0.2 0.2 0.1	Syn 206 190 206	R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) no 0.0 0.000 0.000	231 223 223	0.243 0.224 0.243
Refrigerant Refrigerant oil Piping connections Piping connections Indication if the head Repplementary Reater Rower consumption in other than	GWP Type Liquid Gas Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode Standby	Type OD Type OD System Actual Actual	mm m meater kW kW kW kW kW	0.2 0.1 0.2 0.1	Syn 206 190 206 190	R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) no 0.0 0.000 0.000 0.000	231 223 231 223 231	0.243 0.224 0.243 0.224
Refrigerant Refrigerant oil Piping connections Piping connections Indication if the head Repplementary Reater Rower consumption in other than	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode Standby mode	Type OD Type OD System Actual Speed with a supplementary I Heating elbu Cooling PCK Heating PCK Cooling POFF Heating POFF Cooling PSB Heating PSB	mm m meater kW kW kW kW kW kW	0.2 0.1 0.2 0.1 0.2 0.1	Syn 206 190 206 190 206	R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) no 0.0 0.000 0.000 0.000	231 223 231 223 231 223 231	0.243 0.224 0.243
Refrigerant Refrigerant oil Piping connections Piping connections	GWP Type Liquid Gas Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode Standby mode Thermo- stat-off	Type OD Type OD System Actual Speed with a supplementary I Heating elbu Cooling PCK Heating PCK Cooling POFF Heating POFF Cooling PSB Heating PSB	mm m meater kW kW kW kW kW	0.2 0.1 0.2 0.1 0.2 0.1	Syn 206 190 206 190	R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) 0.0 0.000 0.000 0.000 0.000 0.000	231 223 231 223 231	0.243 0.224 0.243 0.224
Refrigerant Refrigerant oil Piping connections Piping connections Indication if the head Supplementary The ater Power consumption in other than	GWP Type Liquid Gas Gas Total piping length ater is equi Back-up capacity Crank- case heater mode Off mode Standby mode Thermo- stat-off mode	Type OD Type OD System Actual Speed with a supplementary I Heating elbu Cooling PCK Heating PCK Cooling POFF Heating POFF Cooling PSB Heating PSB Cooling PTO	mm m m m m m m m m m m m kw kw kw kw kw kw kw kw kw kw kw kw kw	0.2 0.1 0.2 0.1 0.2 0.1	206 190 206 190 206 190 206	R-410A 2,087.5 thetic (ether) oil FVC Braze connection 19.1 Braze connection 41.3 1,000 (6) 0.0 0.000 0.000 0.000 0.000 0.000	231 223 231 223 231 223 231 0.029	0.243 0.224 0.243 0.224 0.243



	ecifications System		RXYQ52U	RXYQ54U
System	Outdoor unit module 1		RXYQ16U	RXYQ18U
	Outdoor unit module 2		RXYQ	
	Outdoor unit module 3		RXYQ	18U
Recommended co	ombination		6 x FXFQ50AVEB + 14 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 15 x FXFQ63AVEB
Recommended co	ombination 2		6 x FXSQ50A2VEB + 14 x FXSQ63A2VEB + 2 x FXSQ80A2VEB	9 x FXSQ50A2VEB + 15 x FXSQ63A2VEB
Recommended co	ombination 3		6 x FXMQ50P7VEB + 14 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	9 x FXMQ50P7VEB + 15 x FXMQ63P7VEB
Cooling capacity	Prated,c	kW	145.8 (1)	151.2 (1)
Heating capacity	Nom. 6°CWB	kW	145.8 (2)	151.2 (2)
	Prated,h	kW	145.8 (2)	151.2 (2)
	Max. 6°CWB	kW	163.0 (2)	169.5 (2)
Power input - 50Hz	z Heating Nom. 6°CWB	kW	40.98 (2)	42.66 (2)
OP at nom.	6°CWB	kW/kW	3.56 (2)	3.54 (2)
capacity				
ESEER - Automatic			6.42	6.38
ESEER - Standard			4.99	4.97
SCOP			4.3	
COP recommend	led combination 2		4.3	
SCOP recommend	led combination 3		4.2	
SEER		i	6.4	
SEER recommende	ed combination 2	i	6.4	
SEER recommende			6.4	
ηs,c		%	253.7	254.1
s,c recommende	d combination 2		251.6	252.5
ηs,c recommende			251.5	253.9
ηs,h		%	167.2	169.4
رام, المرام, ا	ed combination 2	/0	168.7	170.8
ηs,h recommende			164.4	166.0
Space cooling	A Condi- EERd		2.0	1.9
Space cooling	tion (35°C Pdc	kW	145.8	151.2
	- 27/19)	VAA	٥. رحت	131.2
	B Condi- EERd		4.2	4.1
	tion (30°C Pdc	kW	107.4	111.4
	- 27/19)	r.vv	107.4	111.4
	C Condi- EERd		8.1	
	tion (25°C Pdc	kW	69.1	71.6
	- 27/19)	r.vv	05.1	/ 1.0
	D Condi- EERd		17.6	19.1
	tion (20°C Pdc	kW		
	- 27/19)	KVV	30.7	34.4
Enaco coelina	- 2//19) A Condi- EERd		2.0	10
Space cooling		1,147	2.0	1.9
ecommended	tion (35°C Pdc	kW	145.8	151.2
combination 2	- 27/19)			
Space cooling	B Condi- EERd	1347	4.1	
recommended	tion (30°C Pdc	kW	107.4	111.4
combination 2	- 27/19)			
	C Condi- EERd		8.1	
	tion (25°C Pdc	kW	69.0	71.6
	- 27/19)			
	D Condi- EERd		17.4	18.9
	tion (20°C Pdc	kW	30.7	34.1
	- 27/19)			
Space cooling	A Condi- EERd		2.0	1.9
ecommended	tion (35°C Pdc	kW	145.8	151.2
combination 3	- 27/19)			
	B Condi- EERd		4.1	
	tion (30°C Pdc	kW	107.4	111.4
	- 27/19)			
	C Condi- EERd		8.0	8.2
	tion (25°C Pdc	kW	69.1	71.6
	- 27/19)			
	D Condi- EERd	i	17.5	19.1
	tion (20°C Pdc	kW	30.7	34.7



Technical spec		•		RXYQ52U	RXYQ54U
Space heating	TBivalent	COPd (declared COP)		2.2	2.1
(Average climate)		Pdh (declared heating cap)	kW	79.0	83.7
	TOL	Tbiv (bivalent temperature)	°C	-10	21
	TOL	COPd (declared COP)	1.14/	2.2	2.1
		Pdh (declared heating cap) Tol (temperature operating	°C kW	79.0	83.7
		limit)		-10	
	A Con-	COPd (declared COP)		2.6	
	dition	Pdh (declared heating cap)	kW	69.9	74.0
	(-7°C)	(ааур)			
	B Condi-	COPd (declared COP)		3.8	3.9
	tion (2°C)	Pdh (declared heating cap)	kW	42.5	45.1
	C Condi-	COPd (declared COP)		6.6	6.8
		Pdh (declared heating cap)	kW	27.4	29.0
	D Con-	COPd (declared COP)		9.0	
	dition	Pdh (declared heating cap)	kW	14.2	
	(12°C)				
pace heating	A Con-	COPd (declared COP)	134/	2.6	74.0
Average climate) ecommended	dition (-7°C)	Pdh (declared heating cap)	kW	69.9	74.0
combination 2		COPd (declared COP)		3.8	3.9
.c.momation z		Pdh (declared heating cap)	kW	42.6	3.9 45.1
		COPd (declared COP)	LAA	6.7	6.8
		Pdh (declared heating cap)	kW	27.4	29.0
	D Con-	COPd (declared COP)		9.1	22.0
	dition	Pdh (declared heating cap)	kW	14.4	
	(12°C)				
		COPd (declared COP)		2.2	2.1
Space heating	TBivalent	Pdh (declared heating cap)	kW	79.0	83.7
Average climate)		Tbiv (bivalent temperature)	°C	-10	
ecommended	TOL	COPd (declared COP)		2.2	2.1
combination 2		Pdh (declared heating cap)	kW	79.0	83.7
		Tol (temperature operating	°C	-10	
	A C	limit)		26	2.5
Space heating	A Con-	COPd (declared COP)	1347	2.6	2.5
Average climate) recommended	dition	Pdh (declared heating cap)	kW	69.9	74.0
combination 3	(-7°C)	COPd (declared COP)		3.7	3.8
Combination 3		Pdh (declared heating cap)	kW	42.5	
		COPd (declared COP)	KVV	6.4	6.5
		Pdh (declared heating cap)	kW	27.3	29.0
	D Con-	COPd (declared COP)		8.7	23.0
	dition	Pdh (declared heating cap)	kW	13.7	
	(12°C)				
	TBivalent	COPd (declared COP)		2.2	2.1
		Pdh (declared heating cap)	kW	79.0	83.7
		Tbiv (bivalent temperature)	°C	-10	
	TOL	COPd (declared COP)		2.2	2.1
		Pdh (declared heating cap)	kW	79.0	83.7
		Tol (temperature operating	°C	-10	
		limit)	LID		
Capacity range	Cata		HP	52	54
PED Maximum number	Category			Category I 64 (3)	II
ndoor index	Min.	abie iliuuui uilits		650.0	675.0
connection	Max.			1,690.0	1,755.0
Heat exchanger	Indoor sic	de		1,090.0 Air	1,733.0
	Outdoor			Air	
	Air flow	Cooling Rated	m³/h	45,720	45,180
	rate	Heating Rated	m³/h	45,720	45,180
ound power level		Nom.	dBA	89.3 (4)	88.6 (4)
<u> </u>	Heating	Prated,h	dBA	90.5 (4)	90.1 (4)
Sound pressure	Cooling	Nom.	dBA	67.1 (5)	66.8 (5)
evel					
Refrigerant	Туре			R-410A	
	GWP			2,087.5	
Refrigerant oil	Туре			Synthetic (ether) of	
Piping connections	Liquid	Туре		Braze connec	tion
	<u> </u>	OD	mm	19.1	Maria.
	Gas	Type		Braze connec	tion



Technical spe	cificatio	ns Syste	em		RXYQ52U	RXYQ54U
Piping connection	s Gas	OD		mm	4	1.3
	Total piping length	System	Actual	m	1,00	0 (6)
Indication if the he	eater is equi	pped with	a suppleme	entary heater	n	10
Supplementary heater	Back-up capacity	Heating	elbu	kW	0	.0
Power consump-	Crank-	Cooling	PCK	kW	0.0	000
tion in other than active mode	case heater mode	Heating	PCK	kW	0.255	0.267
	Off mode	Cooling	POFF	kW	0.225	0.226
		Heating	POFF	kW	0.255	0.267
	Standby	Cooling	PSB	kW	0.225	0.226
	mode	Heating	PSB	kW	0.255	0.267
	Thermo-	Cooling	PTO	kW	0.0	029
	stat-off mode	Heating	PTO	kW	0.2	294
Cooling	Cdc (Degi	radation c	ooling)		0.	25
Heating	Cdh (Deg	radation h	eating)		0.	25

Electrical sp	ecificatio	ons System		RXYQ22U	RXYQ24U	RXYQ26U	RXYQ28U	RXYQ30U		
Power supply	Name					Y1				
	Phase			3N~						
	Frequenc	су	Hz	50						
	Voltage		V			380-415				
Power supply int	ake				Bot	h indoor and outdoo	r unit			
Voltage range	Min.		%			-10				
	Max.		%			10				
Current	Nominal	Cooling	Α	22.9 (7)	25.2 (7)	28.1 (7)	30.7 (7)	33.5 (7)		
	running									
	current									
	(RLA)									
Current - 50Hz	Nominal					-				
	running	tion A								
	current	Combina- Cooling				-				
	(RLA)	tion B								
		current (MSC) - remark				See note 8				
	Zmax	List				No requirements				
		n Ssc value	kVa	11,573 (9)	11,597 (9)	12,831 (9)	13,585 (9)	14,843 (9)		
		n circuit amps (MCA)	A	46.0	0 (10)	51.0 (10)	55.0 (10)	59.0 (10)		
		n fuse amps (MFA)	Α		63	(11)		80 (11)		
Power Perfor-	Power	Combina- 35°C ISO - F				-				
mance	factor	tion B 46°C ISO - F	ull load			-				
Wiring connec-	For	Quantity				5G				
tions - 50Hz	power									
	supply									
	For	Quantity				2				
	connec-	Remark		F1,F2						
	tion with									
	indoor									

Electrical sp	ecifications System		RXYQ32U	RXYQ34U	RXYQ36U	RXYQ38U	RXYQ40U
Power supply	Name				Y1		
	Phase			3N~			
	Frequency	Hz			50		
	Voltage	V			380-415		
Power supply int	ake			Both	n indoor and outdoor	unit	
Voltage range	Min.	%			-10		
	Max.	%			10		
Current	Nominal Cooling running current (RLA)	А	36.0 (7)	38.8 (7)	44.9 (7)	44.3 (7)	43.7 (7)
Current - 50Hz	Nominal Combina- Cooling running tion A				-		
	current Combina- Cooling (RLA) tion B				-		
	Starting current (MSC) - remark				See note 8		
	Zmax List				No requirements		
	Minimum Ssc value	kVa	15,094 (9)	16,352 (9)	17,359 (9)	19,397 (9)	20,378 (9)
	Minimum circuit amps (MCA)	Α	62.0 (10)	66.0 (10)	70.0 (10)	76.0 (10)	81.0 (10)
	Maximum fuse amps (MFA)	Α	80 (11) 100 (11)				(11)





Electrical spe	ecificatio	ns Syst	em	RXYQ32U	RXYQ34U	RXYQ36U	RXYQ38U	RXYQ40U
Power Perfor-	Power	Combina	a- 35°C ISO - Full load			-		
mance	factor	tion B	46°C ISO - Full load			-		
Wiring connec-	For	Quantity				5G		
tions - 50Hz	power							
	supply							
	For	Quantity				2		
	connec-	Remark				F1,F2		
	tion with							
	indoor							

Electrical sp	ecificatio	ns System		RXYQ42U	RXYQ44U	RXYQ46U	RXYQ48U	RXYQ50U	
Power supply	Name					Y1			
	Phase			3N~					
	Frequenc	У	Hz			50			
	Voltage		V			380-415			
Power supply intake				Both	n indoor and outdoo	r unit			
Voltage range	Min.		%			-10			
	Max.		%			10			
Current	Nominal running current (RLA)	Cooling	А	46.2 (7)	48.7 (7)	51.4 (7)	54.0 (7)	56.8 (7)	
Current - 50Hz	Nominal running	Combina- Cooling tion A				-			
	(RLA)	Combina- Cooling tion B			-				
	Starting o	current (MSC) - remark		See note 8					
	Zmax	List				No requirements			
		Ssc value	kVa	20,629 (9)	21,132 (9)	21,887 (9)	22,641 (9)	23,899 (9)	
	Minimum	circuit amps (MCA)	A	84.0 (10)	86.0 (10)	89.0 (10)	93.0 (10)	97.0 (10)	
	Maximun	n fuse amps (MFA)	Α		100 (11)		125	(11)	
Power Perfor-	Power	Combina- 35°C ISO - Fu	ıll load			-			
mance	factor	tion B 46°C ISO - Fi	ull load			-			
Wiring connec-	For	Quantity				5G			
tions - 50Hz	power supply								
	For	Quantity				2			
	connec- tion with indoor	Remark				F1,F2			

Electrical specifications System			RXYQ52U	RXYQ54U			
Power supply	Name		Y1				
	Phase		3N~				
	Frequency	Hz	50				
	Voltage	V	380-415				
Power supply intake			Both indoor and o	utdoor unit			
Voltage range	Min.	%	-10				
	Max.	%	10				
Current	Nominal Cooling running current (RLA)	A	59.6 (7)	62.4 (7)			
Current - 50Hz	ent - 50Hz Nominal Combina- Cooling running tion A		-				
	current Combina- Cooling (RLA) tion B		-				
	Starting current (MSC) - remark		See note	8			
	Zmax List		No requiren	nents			
	Minimum Ssc value	kVa	25,157 (9)	26,415 (9)			
	Minimum circuit amps (MCA)	A	101.0 (10)	105.0 (10)			
	Maximum fuse amps (MFA)	A	125 (11)				
Power Perfor- mance	Power Combina- 35°C ISO - Fu factor tion B 46°C ISO - Fu		-				
Wiring connec- tions - 50Hz	For Quantity power supply		5G				
	For Quantity		2				
	connec- Remark tion with indoor		F1,F2				



Options 3

3 - 1 Options

RXYQ-U RYYQ-U RYMQ-U RXYQQ-U

No	Item		RYY	508N 08N 08N	RXYQ10-12U RYYQ10-12U RXYQQ10-12U	RYYC	(14-18U (14-18U (14-18U	RXYQ20U RYYQ20U RXYQQ20U	RYYQ22~54U RXYQ22~54U RXYQQ22~42U	
I.	Refnet header					KHI	RQ22M29I	1		
						KHI	RQ22M64F	+		
			-					KHF	RQ22M75H	
II.	Refnet joint					KH	RQ22M20	Γ		
						KHF	RQ22M29T	9		
			KHRQ22M64T							
			-					KHI	HRQ22M75T	
III.	Outdoor multi-connection kit	See note ·2·.	-						BHFQ22P1007	
IV.	Outdoor multi-connection kit	See note ·2·.	-						BHFQ22P1517	
No	Item		8HP	10HP	12HP	14HP	16HP	18HP 20HP		
1a	Cool/heat selector (switch)	See note ·3·.			KRC	19-26A				
1b	Cool/heat selector (PCB)		BRP2A81							
1c	Cool/heat selector (fixing box)		KJB111A							
2	VRV configurator		EKPCCAB*							
3	Heater tape kit PCB		EKBPH012T7A EKBPH020T7A							
4	Demand PCB	See	DTA104A61/62*							
5	Demand PCB mounting plate	See note ·4·.					KKSB26	5B1*		

- Notes

 1 All options are kits
 2 Only for multi units
 - 3 To mount option ·1a·, option ·1c· is required.
 - 4 To install the demand PCB on the large casing type, the demand PCB mounting plate is

required.

Medium casing type ·VRV4· heat pump: modules ·8~12·HP Large casing type ·VRV4· heat pump: modules ·14~20·HP

3D120006B



Combination table 4

Combination Table 4 - 1

REMQ5U REYQ8-20U RXYQQ8-20U RXYTQ8-16UYF RYYQ8-20U

RYMQ8-20U

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

Units in scope: FXZQ15A and FXAQ15A.

- 1. 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 ≤ 110% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 60%.
 - 110% < CR ≤ 115% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 40%.
 - 115% < CR ≤ 120% → CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 25%.
 - 120% < CR ≤ 125% \rightarrow CR1 of the sum of all FXZQ15A and/or FXAQ15A indoor units in the system must be ≤ 10%.
 - 125% < CR ≤ 130% → FXZQ15A andFXAQ15A cannot be used

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. 3D104665

RXYQQ-U RXYQ-U RYYQ-U RYMO-U

VRV4 Heat pump Multi-unit standard combinations table

		8НР	10HP	12HP	14HP	16HP	18HP	20HP
	pyvne* / pyvne* / pyvnne*	1			-	-	_	.,
	RXYQ8* / RYYQ8* / RXYQQ8*		1					
	RXYQ10* / RYYQ10* / RXYQQ10*			1				
Heat pump	RXYQ12*/RYYQ12*/RXYQQ12*	-		H	1			
Heat	RXYQ14* / RYYQ14* / RXYQQ14*				-	1		
_	RXYQ16* / RYYQ16* / RXYQQ16*					1		
	RXYQ18* / RYYQ18* / RXYQQ18*	_					1	
	RXYQ20* / RYYQ20* / RXYQQ20*							1
2	RXYQ22* / RYYQ22* / RXYQQ22*		1	1				
in io	RXYQ24* / RYYQ24* / RXYQQ24*	1				1		
outde	RXYQ26* / RYYQ26* / RXYQQ26*			1	1			
with 2	RXYQ28* / RYYQ28* / RXYQQ28*			1		1		
ation	RXYQ30* / RYYQ30* / RXYQQ30*			1			1	
Multi-combination with 2 outdoor units	RXYQ32* / RYYQ32* / RXYQQ32*					2		
Aufti-	RXYQ34* / RYYQ34* / RXYQQ34*					1	1	
•	RXYQ36* / RYYQ36* / RXYQQ36*					1		1
	RXYQ38* / RYYQ38* / RXYQQ38*	1	1					1
units	RXYQ40* / RYYQ40* / RXYQQ40*		1	1			1	
tdoor	RXYQ42* / RYYQ42* / RXYQQ42*		1			2		
h3 ou	RXYQ44* / RYYQ44*			1		2		
on wit	RXYQ46* / RYYQ46*				1	2		
Multi-combination with 3 outdoor units	RXYQ48* / RYYQ48*					3		
II-on	RXYQ50* / RYYQ50*					2	1	
W	RXYQ52* / RYYQ52*					1	2	
	RXYQ54* / RYYQ54*						3	

- Remark
 RYVQ8-70 = Single continuous heating
 RYVQ8-72 = Single non-continuous heating
 RXVQ8-72 = Single non-continuous heating
 RXVQ8-72 = Single non-continuous heating
 RXVQ3-72 = Single non-continuous heating
 RXVQ3-72 = Single non-continuous heating replacement (VRV4-Q)
 RXVQ02-72 = Multi non-continuous heating replacement (VRV4-Q)
 RXVQ02-72 = Multi non-continuous heating replacement (VRV4-Q)
 1) For single unit installation RVQ7 = units (continuous heating) and RXVQ2 = units (non-continuous heating)
 2) ***Continuous heating** multi-outdoor-unit combinations consist of RXVQ8-720 units (e.g. RXVQ36*=RXVQ16*+RXVQ20*).
 3) **Continuous heating** multi-outdoor-unit combinations consist of RXVMQ8-720 units (e.g. RXVQ36*=RXVQ16*+RXVQ20*).

2) "Non-continuous heating" multi-outdoor-unit combinations consist of RXY08-72 units (e.g. RXY038*-BXY016*+RXY020*).

3) "Continuous heating" multi-outdoor-unit combinations consist of RXY08-72 units (e.g. RXY038*-BXY016**+RXY020*).

3) "RYM02" units cann of be used in multi-outdoor-unit combinations and cannot be used as standalone units.

4) RYV08-720 "Continuous heating" multi-outdoor-unit combinations.

5) RYY08-720 "Continuous heating" multi-outdoor-unit combinations cannot contain RXY04" units.

6) RXY08-720 "Non-continuous heating" multi-outdoor-unit combinations cannot contain RXY04" units.

7) Multi "non-continuous heating" multi-outdoor-unit combinations cannot contain RXY04" units.

8) RXY08-720 "Non-continuous heating" multi-outdoor-unit combinations cannot contain RXY04" units.

9) T-series outdoor units cannot be combined with other units.

9) T-series outdoor units and U-series outdoor units cannot be combining these units, make sur

3D120060



Combination table 4

Combination Table 4 - 1

RXYQ-U RYYQ-U RYMQ-U

VRV4

Heat pump

Indoor unit combination restrictions

Indoor unit combination pattern	·VRV* DX∙ indoor unit	-RA DX- indoor unit	Hydrobox unit	(3) Air handling unit (AHU)
·VRV* DX· indoor unit	0	0	0	0
·RA DX· indoor unit	0	0	X	X
Hydrobox unit	0	х	0,	x
Air handling unit (3)	0	х	x	02

o: Allowed

X: Not allowed

Notes

1. ·VRV* DX· indoor unit

When combining ·VRV DX· indoor units with other types of indoor units, respect the following combination patterns

Example

Allowed: (·VRV DX· indoor unit + ·Hydrobox· unit) or (·VRV DX· indoor unit + ·RA DX· indoor unit) or (·VRV DX· indoor unit + ·AHU·)

Not allowed : [-VRV DX- indoor unit + (-RA DX- indoor unit & (-Hydrobox- unit or -AHU-))] or [-VRV DX- indoor unit + (-Hydrobox- unit & (-RA DX- indoor unit or -AHU-))]

- ^1 only connect :Hydrobox: units to a ·VRV IV· Heat Pump in combination with a ·VRV DX· indoor unit.

 → Refer to the connection ratio restrictions (30079540 & 30117169•).

 → Connection with only Hydrobox units: refer to the Daikin Altherma solutions.

 Only connect :Hydrobox: units of the ·HXY* series.

 → ·HXXHD*- series :Hydrobox: units are not allowed.

- 3. O₂

 Combination of ·AHU· only+ control box ·EKEQFA· (the combination with ·VRV DX· indoor units is not allowed; maximum ·54·HP for ·400 + 2x500· class ·EKEXV· kit)

 X--control is possible (up to ·3x· [-EKEXV+EKEQFA* boxes] can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

 Y--control is possible (up to ·3x· [-EKEXV+EKEQFA* boxes] can be connected to one outdoor unit (system)). No Variable Refrigerant Temperature control possible.

 W--control is possible (up to ·3x· [-EKEXV+EKEQFA* boxes] can be connected to one outdoor unit (system)). 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 I-EKEXY + EKEOMA- boxes) is determined by the connection ratio (-90-110%-) and the capacity of the outdoor unit.
- 4. 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 allowed
- 6. (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.

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RXYQ-U RYYQ-U RYMQ-U

VRV4

Heat pump

Indoor unit combination restrictions

(2/2)

Combination table	RYYQ*	RYYQ*	RXYQ* RXMLQ* RXYLQ*	RXYQ* RXMLQ* RXYLQ*
	Single continuous heating Multi continuous he		Single non-continuous heating	Multi non-continuous heating
·VRV* DX· indoor unit	0	0	0	0
·RA DX· indoor unit	0	Х	0	Х
Hydrobox unit	0	0,	0	0,
Air handling unit (AHU) (2)	0	0	0	0

- Available upon request through the ·SPN· procedure.

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

 → 'EKEXV + EKEQ(MA/FA) + AHU· coil

 → 'Biddle- air curtain

 → 'FXMQ_MF- units

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Combination table 4

Combination Table 4 - 1

RXYQ-U RYMQ-U RYYQ-U

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

	Emura	FTXJ20M FTXJ25M FTXJ35M FTXJ50M
Wall mounted type	Stylish	FTXA20 FTXA25 FTXA35 FTXA42 FTXA50
	FTXM	FTXM20R FTXM25R FTXM35R FTXM42R FTXM50R FTXM60R FTXM71R
Ceiling/wall mounted	Flex	FLXS25B FLXS35B FLXS50B FLXS60B
Floor standing type	FVXM	FVXM25F FVXM35F FVXM50F FVXM25A FVXM35A FVXM50A CVXM20A
	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

If you want to connect ·RA·/·SA··DX· cassette, ceiling-mounted, or duct indoor units, use their ·VRV DX· indoor unit equivalents instead.

3D082373G



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: https://my.daikin.eu/denv/en_US/home/applications/software-finder.html





5 - 2 Capacity Correction Factor

RXYQQ-U RXYQ-U RYYQ-U RYMQ-U

VRV4

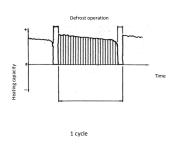
Heat pump

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 (see table)
 C = Integrated correction factor for frost accumulation (see table)
 A = B * C

[°CDB/°CWB]	-7/-7,6 or less	-5/-5,6	-3/-3,7	0/-0,7	3/2,2	5/4,1	7/6
Integrated cor	rection factor for	frost accumula	ation C				
8HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00
10HP	0,95	0,93	0,87	0,79	0,80	0,88	1,00
12HP	0,95	0,92	0,87	0,75	0,76	0,85	1,00
14HP	0,95	0,92	0,86	0,72	0,73	0,84	1,00
16HP	0,95	0,92	0,86	0,72	0,72	0,83	1,00
18HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00
20HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00
22HP	0,95	0,92	0,87	0,77	0,78	0,86	1,00
24HP	0,95	0,92	0,87	0,75	0,76	0,85	1,00
26HP	0,95	0,92	0,86	0,73	0,74	0,84	1,00
28HP	0,95	0,92	0,86	0,73	0,74	0,84	1,00
30HP	0,95	0,93	0,87	0,80	0,81	0,88	1,00
32HP	0,95	0,92	0,86	0,71	0,72	0,83	1,00
34HP	0,95	0,92	0,87	0,78	0,79	0,87	1,00
36HP	0,95	0,92	0,87	0,78	0,79	0,87	1,00
38HP	0,95	0,93	0,88	0,83	0,84	0,89	1,00
40HP	0,95	0,93	0,87	0,80	0,81	0,88	1,00
42HP	0,95	0,92	0,86	0,73	0,74	0,84	1,00
44HP	0,95	0,92	0,86	0,72	0,73	0,84	1,00
46HP	0,95	0,92	0,86	0,72	0,72	0,83	1,00
48HP	0,95	0,92	0,86	0,71	0,72	0,83	1,00
50HP	0,95	0,92	0,87	0,76	0,77	0,86	1,00
52HP	0,95	0,93	0,87	0,80	0,81	0,88	1,00
54HP	0,95	0,93	0,88	0,84	0,85	0,90	1,00



Notes

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.

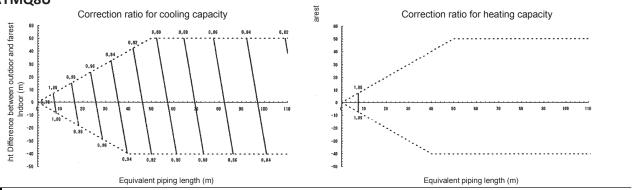
The multi-combination data 22~54HP corresponds with the standard multi-combination of drawing 3D079534

3D079898A



5 - 2 Capacity Correction Factor

RXYQQ8U RXYQ8U RYYQ8U RYMQ8U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%

Maximum capacity of outdoor units

- Capacity of outdoor units from capacity table at the 100% connection ratio
- Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- Capacity of outdoor units from capacity table at installed connection ratio
- x | Correction ratio of piping to furthest indoor
- When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased.

Model	Gas	Liquid
8HP	22.2	12.7

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual)

*Refer to the installation manual for allowed system setups and rules for deicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
8HP	19.1	9.5

Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

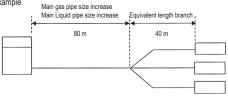
x Correction factor Equivalent length of main pipe

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5





In the above case

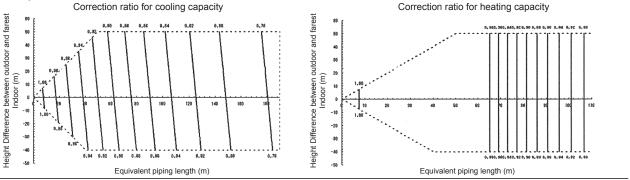
(Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
The rete of change in cooling capacity when height difference = 0 is thus approximately 0.86 heating capacity when height difference = 0 is thus approximately 1.0



5 - 2 Capacity Correction Factor

RXYQQ10U RXYQ10U RYYQ10U RYMQ10U



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
 Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- 3. Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

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

Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor

4. When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased. For new diameters, see below.

Model	Gas	Liquid
RXYQ10P	25.4*	12.7

*If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).

 When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types

Diameter of main pipes (standard size)

Model	Gas	Liquid
10 HP	22.2	9.5

6. Equivalent length used in the above figures is based upon the following equivalent length

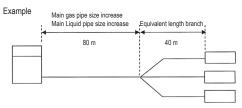
Equivalent piping length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5



In the above case (Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

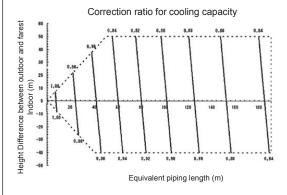
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

The rete of change in cooling capacity when height difference = 0 is thus approximately 0.87 heating capacity when height difference = 0 is thus approximately 0.90

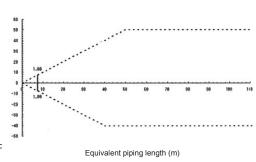


5 - 2 Capacity Correction Factor

RXYQQ12,14,16,24,36U RXYQ12,14,24,36U RYYQ12,14,24,36U RYMQ12,14U



Correction ratio for heating capacity



- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%

Maximum capacity of outdoor units

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

X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

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

x Correction ratio of piping to furthest indoor

When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased. For new diameters, see below

Model	Gas	Liquia
12 HP	28.6	15.9
14 HP	28.6	15.9
24 HP	34.9	19.1
36 HP	41.3	22.2

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual)

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
12 HP	28.6	12.7
14 HP	28.6	12.7
24 HP	34.9	15.9
36 HP	41.3	19.1

Equivalent length used in the above figures is based upon the following equivalent length

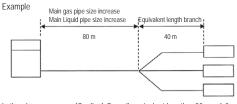
Equivalent piping length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

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

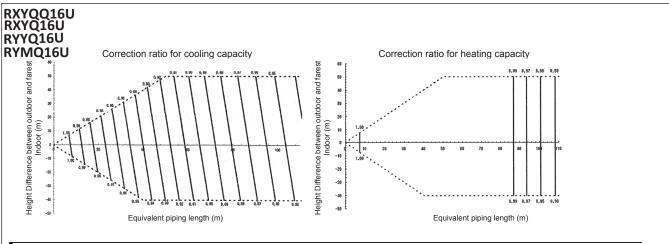


In the above case (Cooling) Overall equivalent length = $80 \text{ m} \times 1.0 + 40 \text{ m} = 120 \text{ m}$

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.89 heating capacity when height difference = 0 is thus approximately 1.0



5 - 2 Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
 Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- . Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor
- 4. When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit branch sections) must be increased. For new diameters, see below.

Model	Gas	Liquid
16 HP	31.8*	15.9

- *If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).
- When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).
 - *Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types

Diameter of main pipes (standard size)

Model	Gas	Liquid
16 HP	28.6	12 7

6. Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

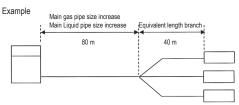
Equivalent length of main pipe

x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5



In the above case

(Cooling) Overall equivalent length = $80 \text{ m} \times 1.0 + 40 \text{ m} = 80 \text{ m}$

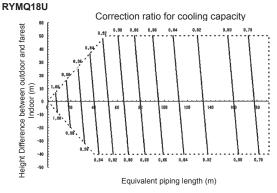
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

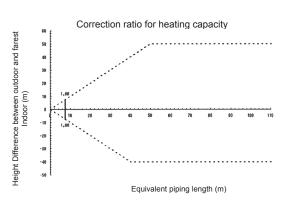
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.88 heating capacity when height difference = 0 is thus approximately 0.99



5 - 2 Capacity Correction Factor

RXYQQ18,26,28,30,38,40,42,44U RXYQ18,26,28,30,38,40,42,44U RYYQ18,26,28,30,38,40,42,44U





NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor
- When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased.

For new diameters, see below.

Model	Gas	Liquid
18 HP	31.8*	19.1
26~30 HP	38.1*	22.2
38~44 HP	41.3	22.2

*If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types. Diameter of main pipes (standard size)

Model	Gas	Liquid
18 HP	28.6	15.9
26~30 HP	34.9	19.1
38~44 HP	41.3	19.1

Equivalent length used in the above figures is based upon the following equivalent length

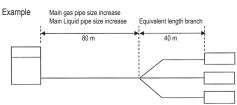
Equivalent piping length

Equivalent length of main pipe

x Correction factor

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5



In the above case (for RXYQ38-44) (Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m cooling capacity when height difference = 0 is thus approximately 0.83

The rate of change in

heating capacity when height difference = 0 is thus approximately 1.0





RXYQQ20,32,34U

Capacity tables

5 - 2 Capacity Correction Factor

RXYQ20,32,34U RYYQ20,32,34U RYMQ20,32,34U Correction ratio for cooling capacity Difference between outdoor and farest 20 Indoor (m)

Equivalent piping length (m)

Correction ratio for heating capacity Difference between outdoor and farest Indoor (m) Equivalent piping length (m)

Height

-20

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x | Correction ratio of piping to furthest indoor
- When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased

For new diameters, see below.

Model	Gas	Liquid
20 HP	31.8*	19.1
32/34 HP	38.1*	22.2

*If not available on site, do not increase. If not increased correction factor should be applied to the equivalent length (see note 6).

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types

Diameter of main pipes (standard size)

Model	Gas	Liquid
20 HP	28.6	15.9
32/34 HP	34.9	19.1

Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

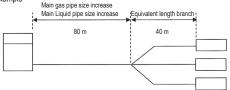
Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5

Example



In the above case

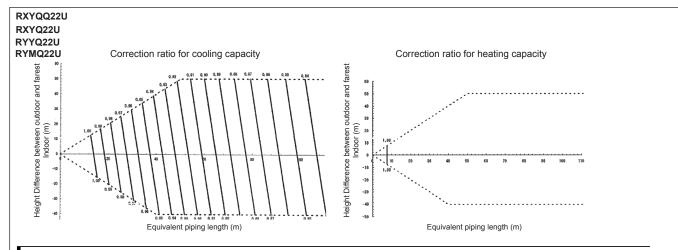
(Cooling) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

The rate of change in cooling capacity when height difference = 0 is thus approximately 0.88 heating capacity when height difference = 0 is thus approximately 1.0



5 - 2 Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
 Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- . Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at the 100% connection ratio

X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio

x Correction ratio of piping to furthest indoor

4. When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased.

For new diameters, see below.

Model	Gas	Liquid
22 HP	31.8*	19 1

^{*} If not available on site, do not increase, if not increased, no correction factor should be applied to the equivalent length (see note 6).

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
22 HP	28.6	15.9

6. Equivalent length used in the above figures is based upon the following equivalent length

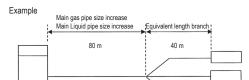
Overal equivalent length =

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correct	Correction factor	
	Standard size	Size increase	
Cooling (gas pipe)	1.0	0.5	
Heating (liquid pipe)	1.0	0.5	



In the above case (Cooling) Overall equivalent length = $80 \text{ m} \times 0.5 + 40 \text{ m} = 80 \text{ m}$

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

The rate of change in cooling capacity when height difference = 0 is thus approximately 0.88 heating capacity when height difference = 0 is thus approximately 1.0



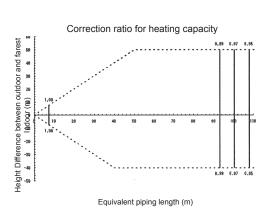


RYYQ46U

Capacity tables

5 - 2 Capacity Correction Factor

RXYQ46U Correction ratio for cooling capacity Height Difference between outdoor and (E) Indoor Equivalent piping length (m)



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor
- When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased

For new diameters, see below.

Model	Gas	Liquid
46 HP	41.3	22.2

- When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).
 - *Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
46 HP	41.3	19.1

Equivalent length used in the above figures is based upon the following equivalent length

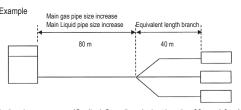
Equivalent piping length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
Heating (liquid pipe)	1.0	0.5



In the above case

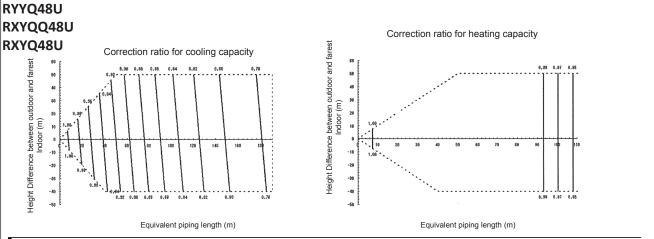
(Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

The rate of change in cooling capacity when height difference = 0 is thus approximately 0.83 heating capacity when height difference = 0 is thus approximately 1.0



5 - 2 Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
 Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- 3. Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor
- 4. When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit branch sections) must be increased.

For new diameters, see below.

Model	Gas	Liquid
48 HP	41.3	22.2

- When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).
 - *Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

	Model	Gas	Liquid
4	48 HP	41.3	19.1

6. Equivalent length used in the above figures is based upon the following equivalent length

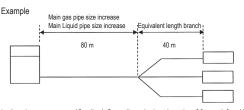
Equivalent piping length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
Heating (liquid pipe)	1.0	0.5



In the above case

(Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

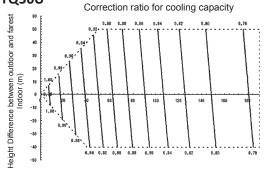
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.83 heating capacity when height difference = 0 is thus approximately 0.97





5 - 2 Capacity Correction Factor

RYYQ50U RXYQQ50U RXYQ50U



Correction ratio for heating capacity Height Difference between outdoor and farest Ξ

Equivalent piping length (m)

Equivalent piping length (m)

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x | Correction ratio of piping to furthest indoor

When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased.

For new diameters, see below.

Model	Gas	Liquid
50 HP	41.3	22.2

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
50 HP	41.3	19.1

Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

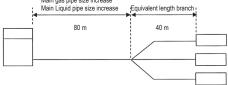
Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
Heating (liquid pipe)	1.0	0.5

Example



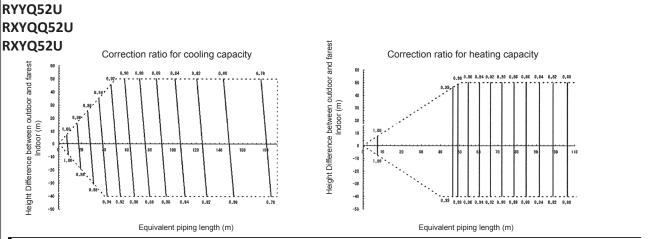
In the above case

(Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m (Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

The rate of change in cooling capacity when height difference = 0 is thus approximately 0.83 heating capacity when height difference = 0 is thus approximately 0.92



5 - 2 Capacity Correction Factor



NOTES

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions.
 Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- 2. With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- 3. Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x Correction ratio of piping to furthest indoor
- 4. When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit branch sections) must be increased.

For new diameters, see below.

Model	Gas	Liquid
52 HP	41.3	22.2

- When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).
 - *Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
52 HP	41.3	19.1

6. Equivalent length used in the above figures is based upon the following equivalent length

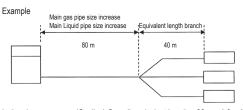
Equivalent piping length

Equivalent length of main pipe x Correction factor

Equivalent length of branch pipes

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

	Correction factor	
	Standard size	Size increase
Cooling (gas pipe)	1.0	
Heating (liquid pipe)	1.0	0.5



In the above case

(Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m

(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

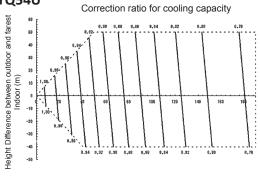
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.83 heating capacity when height difference = 0 is thus approximately 0.88





5 - 2 Capacity Correction Factor

RYYQ54U RXYQQ54U RXYQ54U



Correction ratio for heating capacity Height Difference between outdoor and farest

Equivalent piping length (m)

Equivalent piping length (m)

- These figures illustrate the correction ratio for piping length in capacity for a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, shown it the above figures.
- With this outdoor unit, constant evaporating pressure control when cooling and constant condensing pressure control when heating is carried out.
- Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is smaller.

Condition: Indoor connection ratio does not exceed 100%.

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at the 100% connection ratio
- X Correction ratio of piping to furthest indoor

Condition: Indoor connection ratio exceeds 100%

Maximum capacity of outdoor units

- = Capacity of outdoor units from capacity table at installed connection ratio
- x | Correction ratio of piping to furthest indoor
- When level difference is 50 m or more (see installation manual and 3D079540 / 3D079543) and equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes (outdoor unit - branch sections) must be increased.

For new diameters, see below.

Model	Gas	Liquid
54 HP	41.3	22.2

When the pipe length after the first refrigerant branch kit is more than 40 m, pipe size between first and final branch kit must be increased (only for VRV DX indoor units; details see installation manual).

*Refer to the installation manual for allowed system setups and rules for dedicated indoor connection types.

Diameter of main pipes (standard size)

Model	Gas	Liquid
54 HP	41.3	19.1

Equivalent length used in the above figures is based upon the following equivalent length

Equivalent piping length

Equivalent length of main pipe

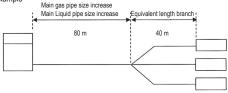
x Correction factor

Equivalent length of branch pipes

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

	Correcti	on factor
	Standard size	Size increase
Cooling (gas pipe)	1.0	
Heating (liquid pipe)	1.0	0.5

Example



In the above case

(Cooling) Overall equivalent length = 80 m x 1.0 + 40 m = 120 m

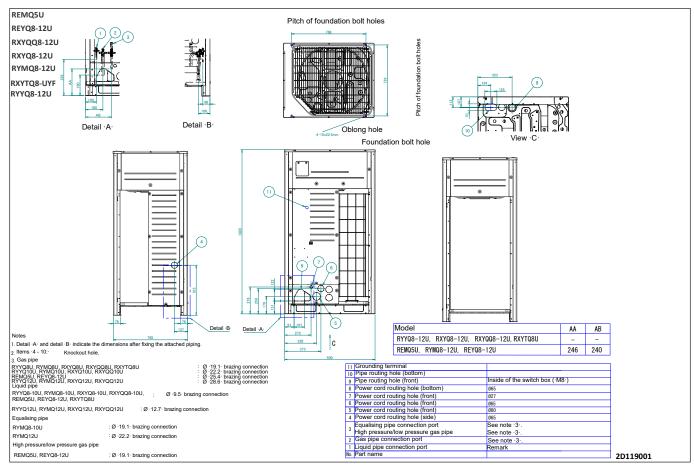
(Heating) Overall equivalent length = 80 m x 0.5 + 40 m = 80 m

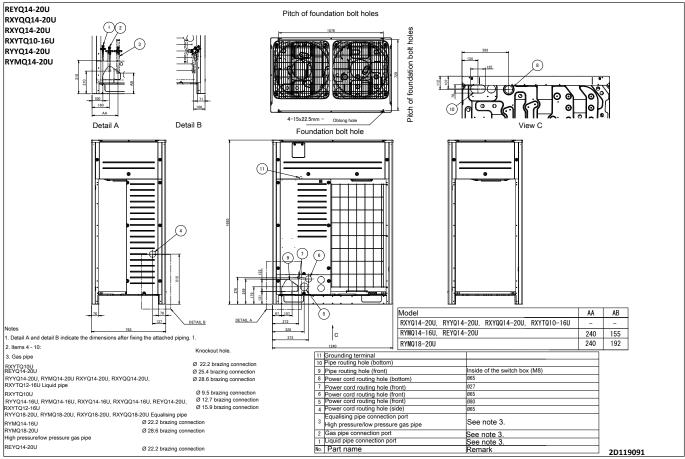
The rate of change in cooling capacity when height difference = 0 is thus approximately 0.83 heating capacity when height difference = 0 is thus approximately 0.83



6 Dimensional drawings

6 - 1 Dimensional Drawings

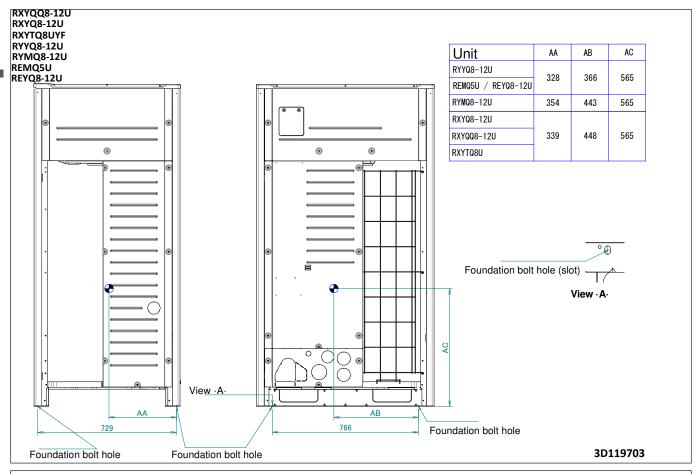


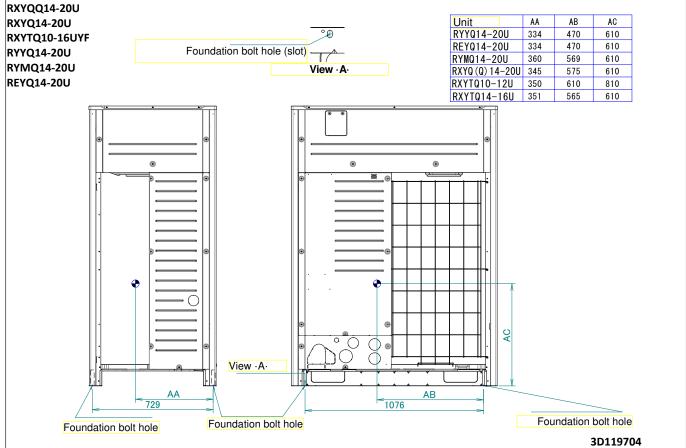




7 Centre of gravity

7 - 1 Centre of Gravity

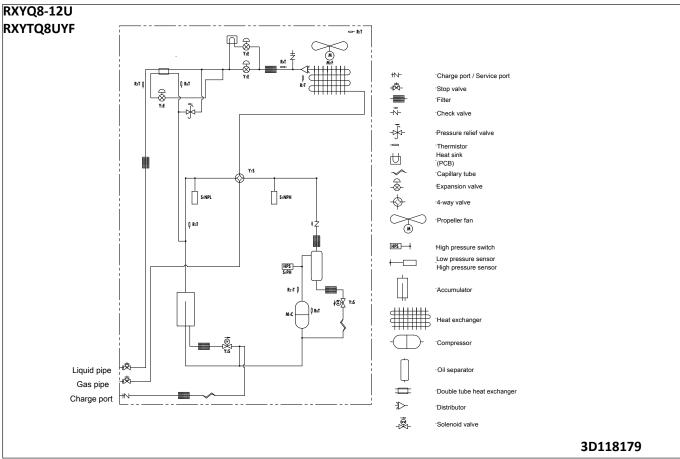


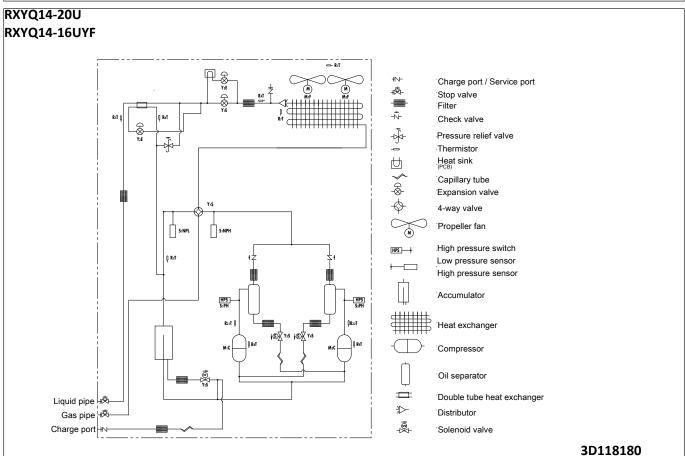




8 Piping diagrams

8 - 1 Piping Diagrams

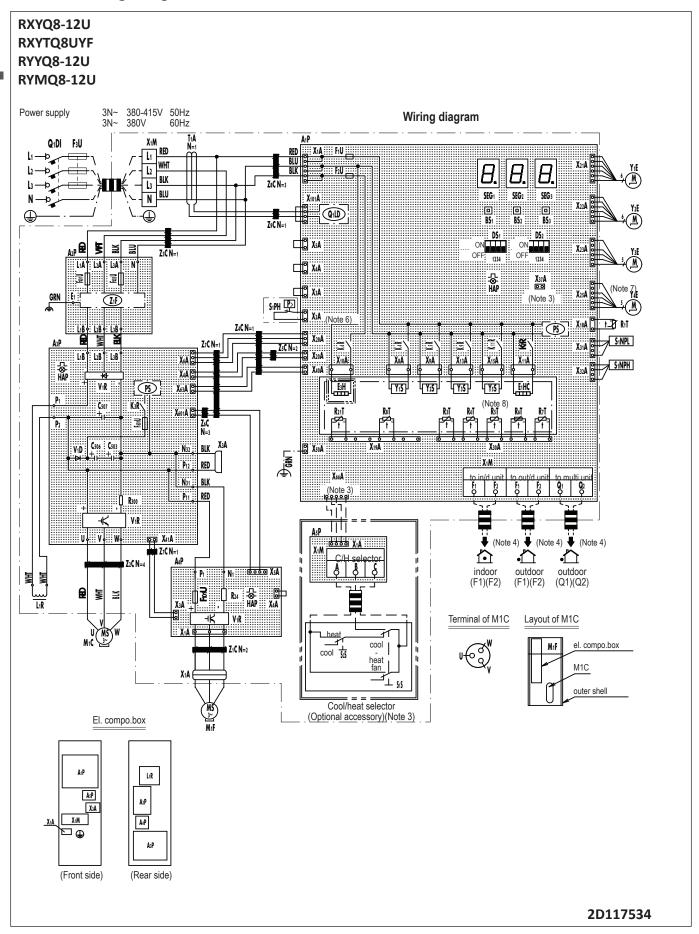






9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase





9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RXYQ8-12U RXYTQ8UYF RYYQ8-12U RYMQ8-12U

A1P	Printed Circuit Board (Main)	R3T	Thermistor (Accumulator)	
A2P	Printed Circuit Board (Noise Filter)	R4T	Thermistor (Heat Exc,Liq,Pipe)	
A3P	Printed Circuit Board (Inv)	R5T	Thermistor (Subcool,Liq,Pipe)	
A4P	Printed Circuit Board (Fan)	R6T	Thermistor (Heat Exc,Gas Pipe)	
A5P	Printed Circuit Board (ABC I/P)(Option)	R7T	Thermistor (Heat Exc,Deicer)	
BS1~3 (A1P)	Push Button Switch (Mode,Set,Return)	R8T	Thermistor (M1C body)	
C503,C506,C507 (A3P)	Capacitor	R21T	Thermistor (M1C discharge)	
DS1,DS2 (A1P)	DIP Switch	S1NPH	Pressure Sensor (High)	
E1HC	Crankcase Heater	S1NPL	Pressure Sensor (Low)	
E3H	Drainpan Heater (Option)	S1PH	Pressure Switch (Disch)	
F1U,F2U (A1P)	Fuse (T,3,15A,250V)	SEG1~SEG3 (A1P)	7-Segment Display	
F3U	Field Fuse	T1A	Current Sensor	
F101U (A4P)	Fuse	V1D (A3P)	Diode	
F401U,F403U (A2P)	Fuse	V1R (A3P,A4P)	Power Module	
F601U (A3P)	Fuse	X*A	Connector	
HAP (A1P,A3P, A4P)	Pilotlamp (Service Monitor-Green)	X1M (A1P)	Terminal Block (Control)	
K3R (A3P)	Magnetic Relay	X1M (A5P)	Terminal Block (Power Supply)(Option)	
K4R (A1P)	Magnetic Relay (Y1S)	Y1E	Electronic Expansion Valve(Main)	
K5R (A1P)	Magnetic Relay (Y2S)	Y2E	Electronic Expansion Valve (Injection)	
K6R (A1P)	Magnetic Relay (E3H)	Y3E	Electronic Expansion Valve (Refrigerant Jacket)	
K7R (A1P)	Magnetic Relay (E1HC)	Y4E	Electronic Expansion Valve (Storage Vessel)	
K9R (A1P)	Magnetic Relay (Y3S)	Y1S	Solenoid Valve (Main)	
K11R (A1P)	Magnetic Relay (Y5S)	Y2S	Solenoid Valve (Accumulator Oil Return)	
L1R	Reactor	Y3S	Solenoid Valve (Oil1)	
M1C	Motor (Compressor)	Y5S	Solenoid Valve (Sub)	
M1F	Motor (Fan)	Z*C	Noise Filter (Ferrite Core)	
PS (A1P,A3P)	Switching Power Supply	Z*F (A2P)	Noise Filter (With Surge Absorber)	
Q1DI	Field Earth Leakage Breaker	Connector For Optional Accessories		
Q1LD (A1P)	Field Earth Current Detector	X10A	Connector (Drainpan Heater)	
R24 (A4P)	Resistor (Current Sensor)	X37A	Connector (Power Adapter)	
R300 (A3P)	Resistor (Current Sensor)	X66A	Connector (Remote Switching	
R1T	Thermistor (Air)	AUUA	Cool/Heat Selector)	

NOTES

- 1. This wiring diagram applies only to the outdoor unit.
- 2. :: Ifield wiring, ____: terminal block, ©: connector, -o-: terminal, : protective earth (screw), : functional earth, ___: earth wiring, _ _ _: field supply, ___: PCB, ___: switch box, | __: option
- 3. When using the optional adapter, refer to the installation manual of the optional adapter.
- 4. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual.
- 5. How to use BS1~3 switch. Refer to "service precaution" label on el. compo. box cover.
- 6. When operating, don't shortcircuit the protection devices (S1PH).
- 7. Only for RYYQ model.
- 8. Only for RYYQ/RYMQ model.
- 9. Colors: BLK: Black, RED: Red, BLU: Blue, WHT: White, GRN: Green.

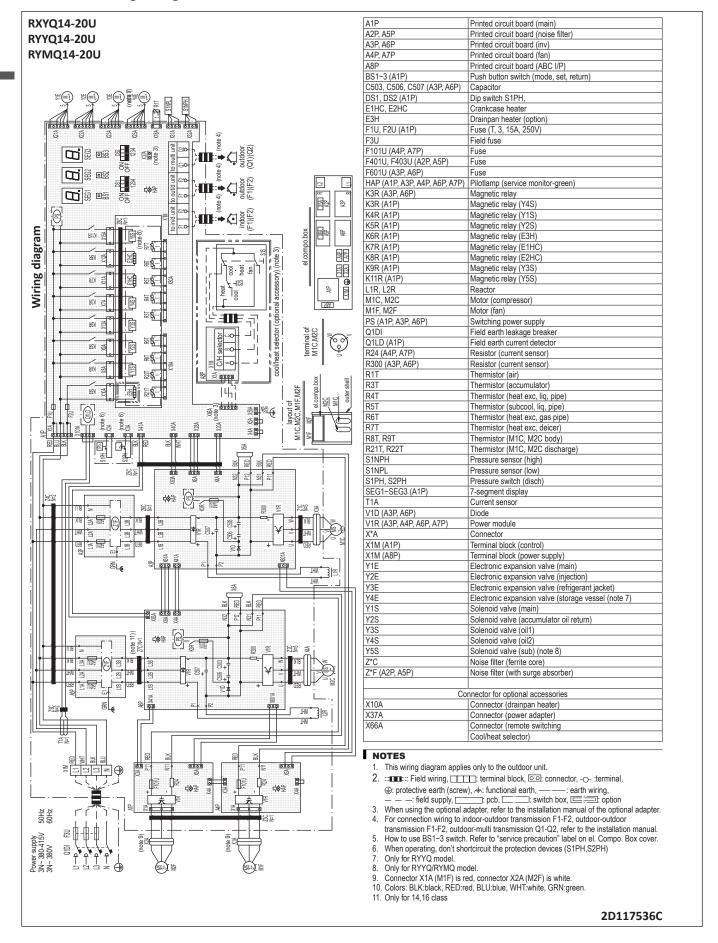
2D117534





Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase



3D119200



External connection diagrams

10 - 1 External Connection Diagrams

RXYQQ8-20U RXYQ8-20U RXYTQ8-16UYF RYYQ8-20U RYMQ8-20U

Notes

- All wiring, components and materials to be procured on-site must comply with the applicable legislation
- For details, refer to the wiring diagram attached to the outdoor unit.
- Install a circuit breaker for safety
- All field wiring and components must be provided by an authorised electrician
- 6. Unit has to be grounded in compliance with the applicable legislation.
- 7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation
- 8. Make sure to install the switch and the fuse to the power line of each equipement
- 9. Install a main switch to control the multiple power sources that the various components of the system make use of.
- 10. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units. The capacity of UNIT 2 must be larger than that of UNIT3 when the power source is connected in series between the units.
- 11. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if 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.

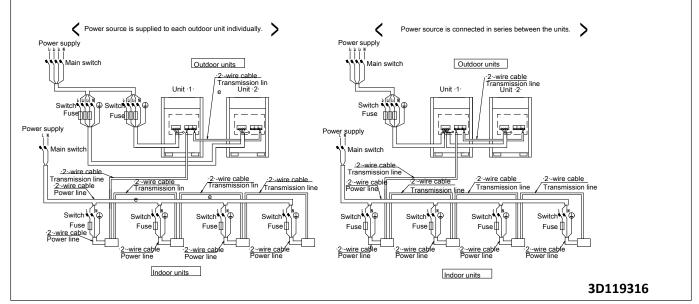
12. Install an earth leakage circuit breaker. Power source is supplied to each outdoor unit individually. Power source is connected in series between Outdoor units Outdoor units Transmission line Unit 3 Unit 3 Indoor units

RXYQQ8-20U RXYQ8-20U RXYTQ8-16U RYYQ8-20U RYMQ8-26U

- 1 All wiring, components and materials to be procured on-site must comply with the applicable legislation
- 2. Use copper conductors only
- 3. For details, refer to the wiring diagram attached to the outdoor unit.
- 4. Install a circuit breaker for safety.
- 5. All field wiring and components must be provided by an authorised electrician.
- 6. Unit has to be grounded in compliance with the applicable legislation.
- The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
 Make sure to install the switch and the fuse to the power line of each equipement.
- 9. Install a main switch to control the multiple power sources that the various components of the system make use of.

 10. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.

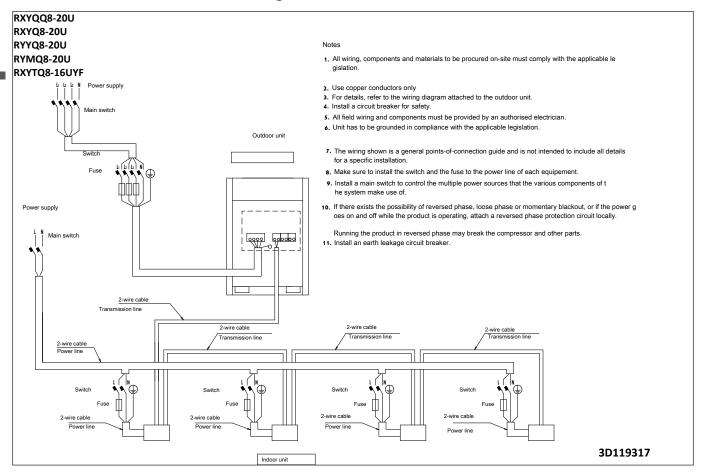
 11. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
- Running the product in reversed phase may break the compressor and other parts 12. Install an earth leakage circuit breaker.





10 External connection diagrams

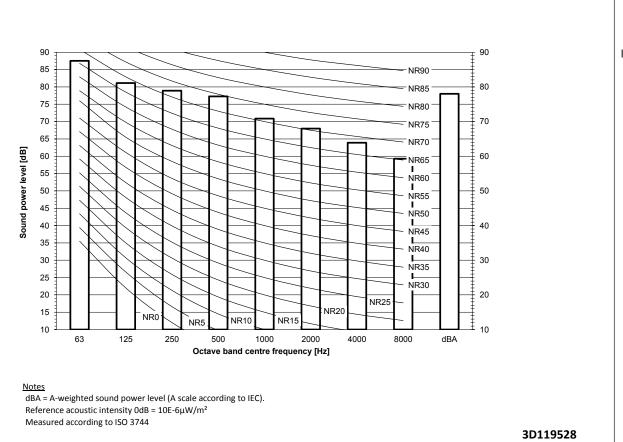
10 - 1 External Connection Diagrams



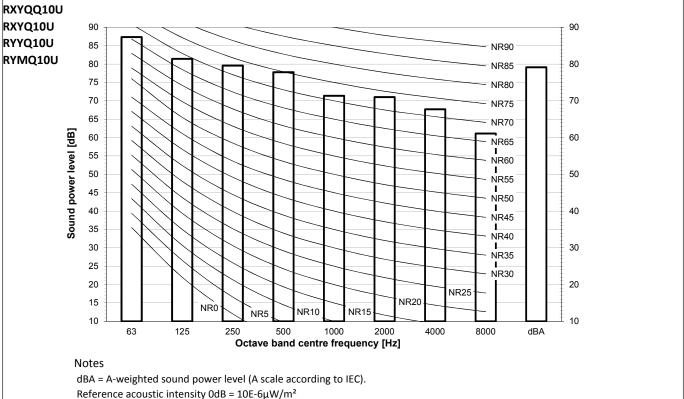


Sound Power Spectrum 11 - 1

REMQ5U **REYQ8U** RXYQQ8U RXYQ8U RXYTQ8UYF RYYQ8U RYMQ8U





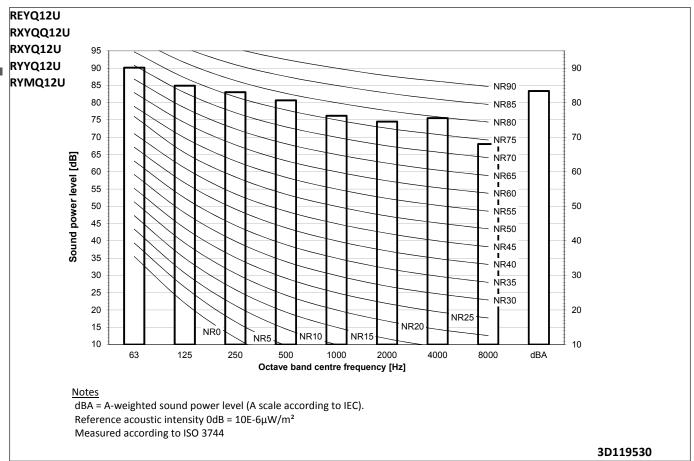


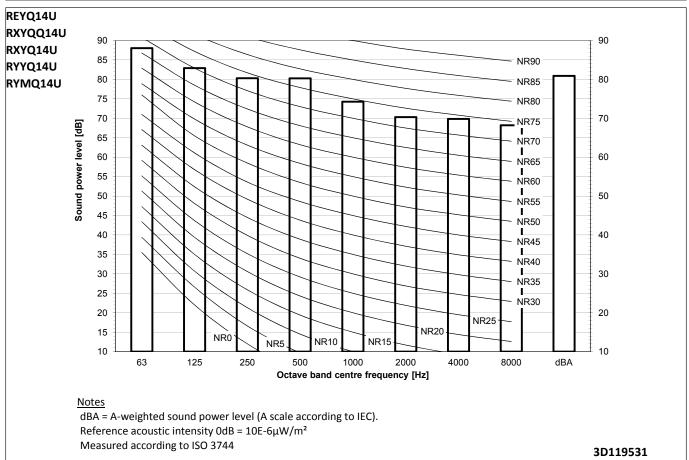
Measured according to ISO 3744

3D119529



11 - 1 Sound Power Spectrum

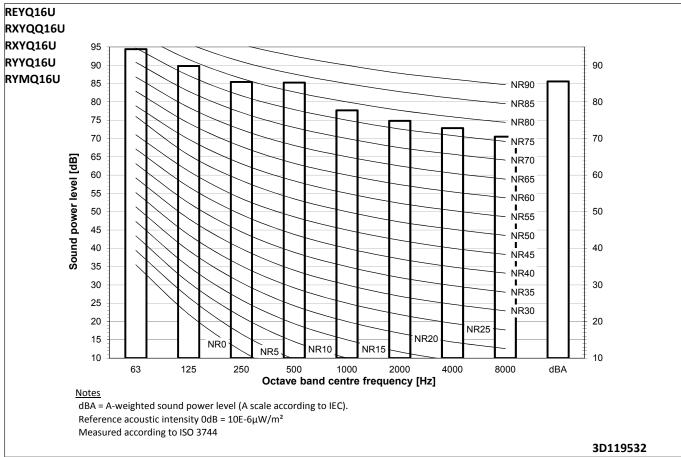


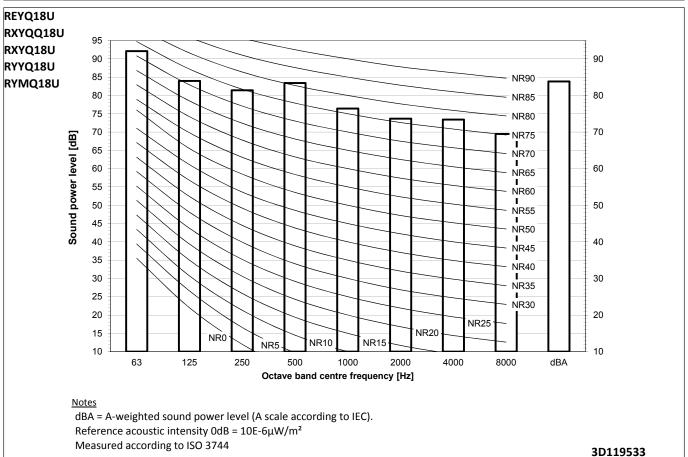


50



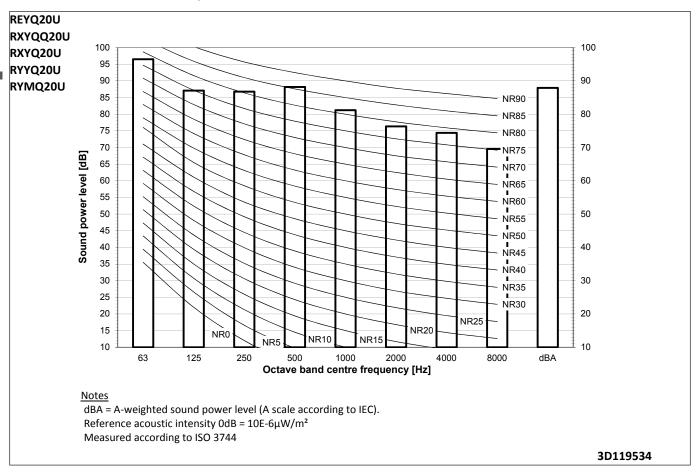
11 - 1 Sound Power Spectrum







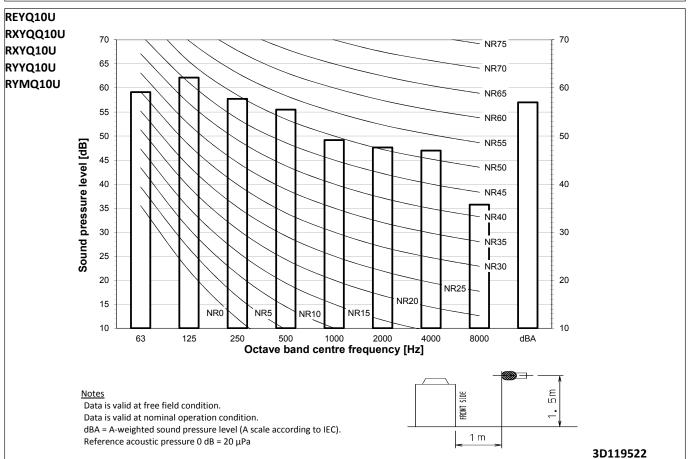
11 - 1 Sound Power Spectrum





11 - 2 Sound Pressure Spectrum

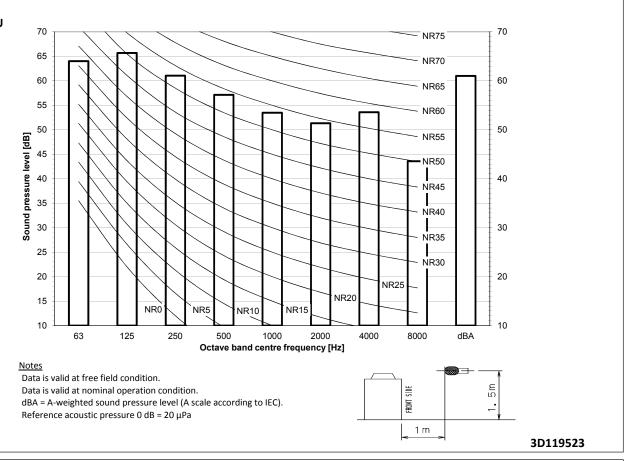
REMQ5U **REYQ8U** RXYQQ8U RXYQ8U 70 70 NR75 RXYTQ8UYF 65 NR70 RYYQ8U 60 60 RYMQ8U 55 NR60 50 50 NR55 Sound pressure level [dB] 45 NR50 40 40 NR45 35 NR40 30 . NR35 25 NR30 20 20 NR25 NR20 15 10 Octave band centre frequency [Hz] 63 125 8000 **Notes** FRONT SIDE Data is valid at free field condition. Data is valid at nominal operation condition. dBA = A-weighted sound pressure level (A scale according to IEC). Reference acoustic pressure 0 dB = $20 \mu Pa$ 3D119521



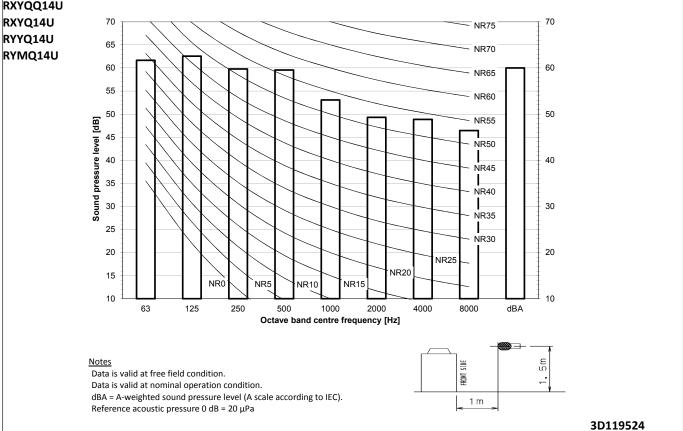


Sound Pressure Spectrum 11 - 2

REYQ12U RXYQQ12U RXYQ12U RYYQ12U RYMQ12U

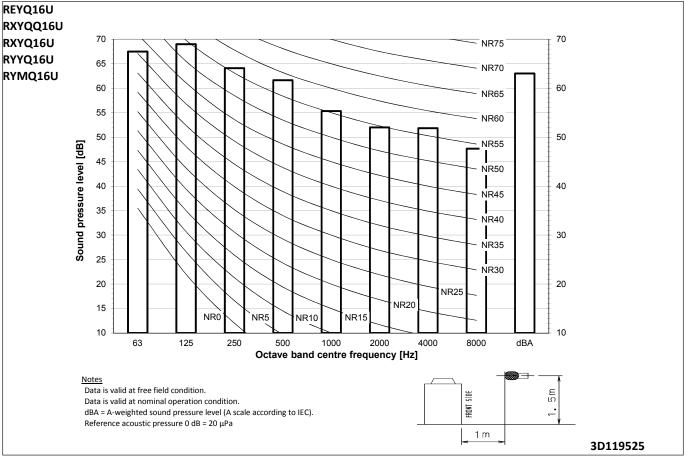


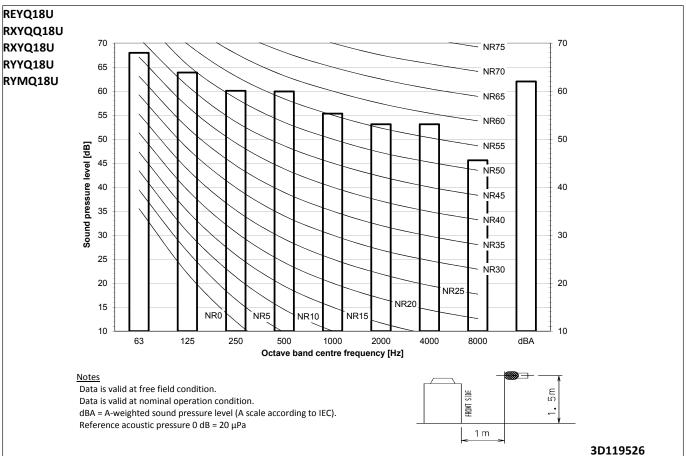






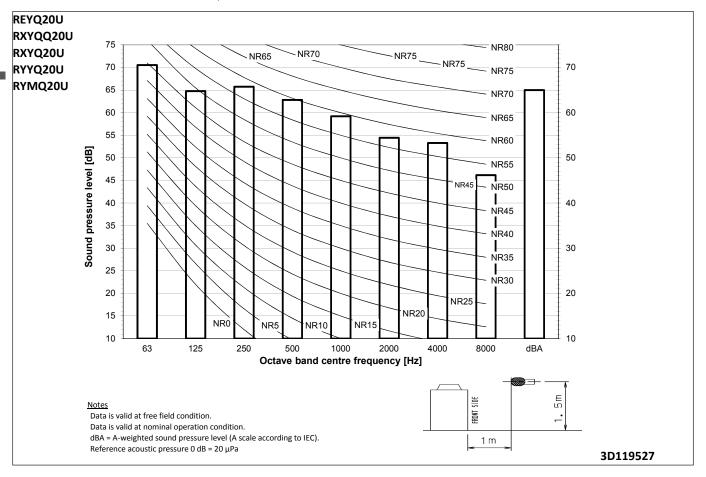
11 - 2 Sound Pressure Spectrum





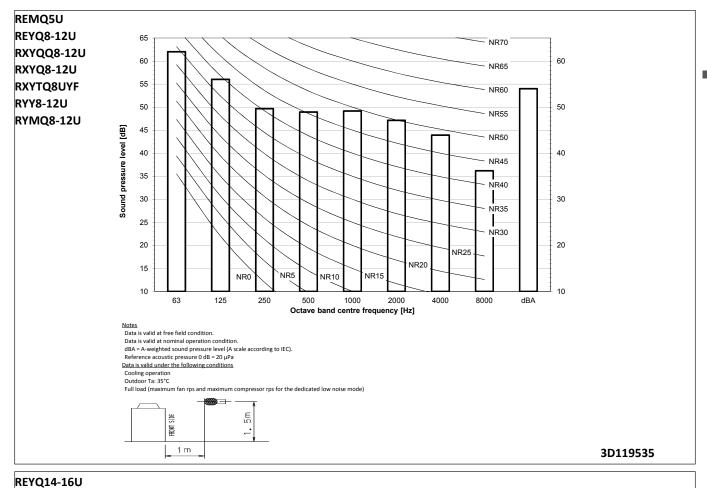


11 - 2 Sound Pressure Spectrum





11 - 3 Sound Pressure Spectrum Quiet Mode Level 1



RXYQQ14-16U 60 NR65 RXYQ14-16U 55 55 RXYTQ14-16UYF 50 50 RYYQ14-16U NR55 RYMQ14-16U 45 45 NR50 Sound pressure level [dB] 40 40 35 35 NR40 30 30 NR35 25 . IR30 20 20 NR25 15 15 NR5 10 500 1000 Octave band centre frequency [Hz] Data is valid at free field condition.

Data is valid at nominal operation condition. dBA = A-weighted sound pressure level (A scale according to IEC). Reference acoustic pressure 0 dB = 20 μPa Data is valid under the following conditions Cooling operation Outdoor Ta: 35°C Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



FRONT SIDE

3D119538



11 - 3 Sound Pressure Spectrum Quiet Mode Level 1

REYQ18-20U RXYQQ18-20U _ NR70 RXYQ18-20U 60 60 NR65 RYYQ18-20U 55 RYMQ18-20U NR60 50 NR55 Sound pressure level [dB] 45 NR50 40 35 NR40 30 NR35 25 NR30 20 20 15 NR10 NR15 500 8000 Octave band centre frequency [Hz] Notes

Data is valid at free field condition.

Data is valid at nominal operation condition.

dBA = A-weighted sound pressure level (A scale according to IEC).

Reference acoustic pressure 0 dB = 20 µPa

Data is valid under the following conditions

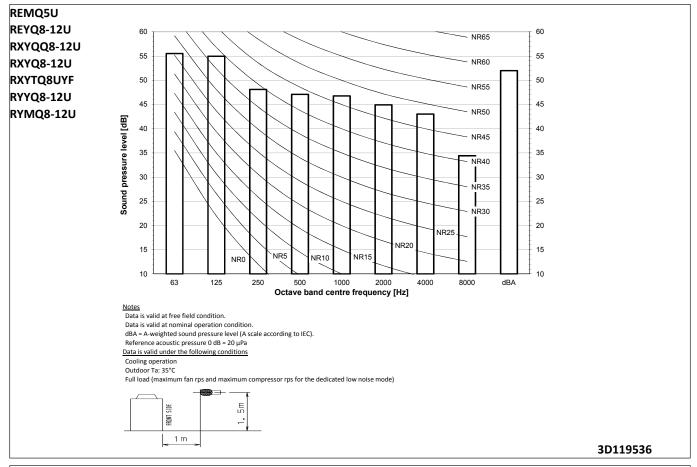
Cooling operation

Outdoor Ta: 35°C

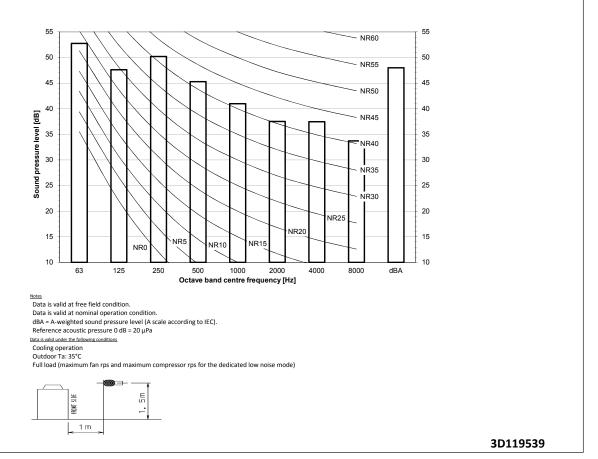
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode) FRONT SIDE 1 m 3D119541



11 - 4 Sound Pressure Spectrum Quiet Mode Level 2



REYQ14-16U RXYQQ14-16U RXYQ14-16U RXYTQ14-16UYF RYYQ14-16U RYMQ14-16U





11 - 4 Sound Pressure Spectrum Quiet Mode Level 2

REYQ18-20U RXYQQ18-20U 60 60 - NR65 RXYQ18-20U 55 55 RYYQ18-20U NR60 RYMQ18-20U 50 50 NR55 45 45 NR50 Sound pressure level [dB] 40 40 NR45 35 35 NR40 30 30 NR35 25 25 NR30 20 20 NR25 NR20 15 15 10 63 125 1000 dBA Octave band centre frequency [Hz] Notes
Data is valid at free field condition.
Data is valid at nominal operation condition.
dBA – A-weighted sound pressure level (A scale according to IEC).
Reference acoustic pressure of dB = 20 µFa
Data is valid under the following conditions
Cooling operation
Outdoor Ta: 35°C
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode) FRONT SIDE 1 m

3D119542



11 - 5 Sound Pressure Spectrum Quiet Mode Level 3

REMQ5U REYQ8-12U 55 55 NR60 RXYQQ8-12U RXYQ8-12U 50 50 NR55 RXYTQ8UYF 45 45 RYYQ8-12U RYMQ8-12U 40 Sound pressure level [dB] NR45 35 35 NR40 30 30 NR35 25 25 NR30 20 20 NR20 15 15 10 63 250 500 1000 4000 8000 dBA Octave band centre frequency [Hz] Notes
Data is valid at free field condition. Data is valid at nominal operation condition. dBA = A-weighted sound pressure level (A scale according to IEC). Reference acoustic pressure 0 dB = 20 uPa Data is valid under the following conditions Cooling operation Outdoor Ta: 35°C
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode) E B FRONT SIDE 1 m 3D119537

REYQ14-16U RXYQQ14-16U 55 55 RXYQ14U-16U 50 50 RXYTQ14-16UYF NR55 **RYYQ14-16U** 45 RYMQ14-16U NR50 40 40 Sound pressure level [dB] NR45 35 35 NR40 25 25 NR30 20 20 NR25 NR20 15 15 NR10 10 10 Octave band centre frequency [Hz] Notes

Data is valid at free field condition. Data is valid at nominal operation condition. Data is valid at nominal operation condition.

4BA = A-weighted sound pressure level (A scale according to IEC).

Reference acoustic pressure 0 dB = 20 µPa

Data is valid under the following conditions

Cooling operation

Outdoor Ta: 35°C

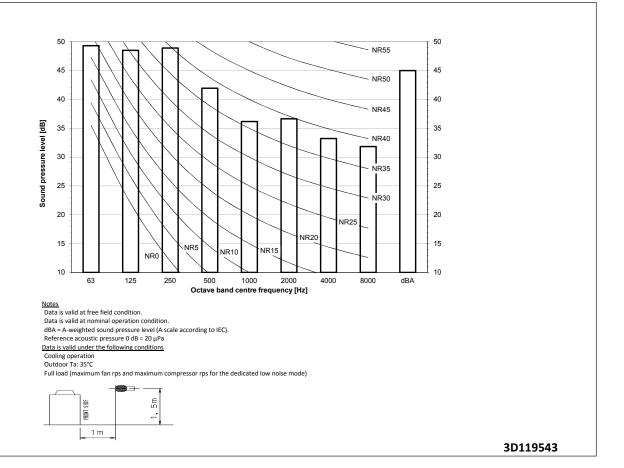
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode) FRONT SIDE

3D119540



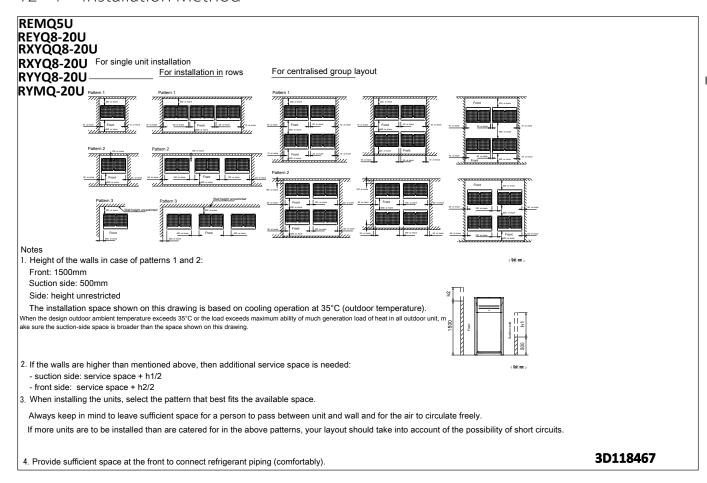
11 - 5 Sound Pressure Spectrum Quiet Mode Level 3

REYQ18-20U RXYQQ18-20U RXYQ18-20U RYYQ18-20U RYMQ18-20U



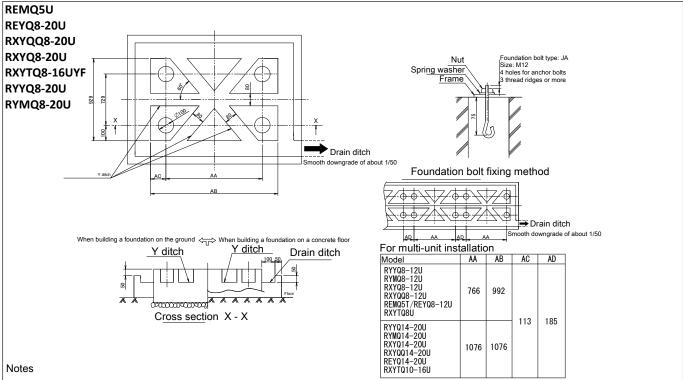


12 - 1 Installation Method





12 - 2 Fixation and Foundation of Units



- 1. Provide a drain ditch around the foundation to drain water from the installation area.
- 2. The surface has to be finished with mortar. The corner edges have to be chamfered.
- 3. Build the foundation on a concrete floor or, if not possible, make sure the foundation surface has a rough finish.
- 4. Use a cement/sand/gravel ratio of 1/2/4 for the concrete, and a diameter of 10 mm for the reinforcement bars (approximately, 300mm intervals).
- 5. When installing the equipment on a roof, make sure to check the strength of the floor and take adequate water proofing measures. 3D118459



12 - 3 Refrigerant Pipe Selection

RXYQ-U RYYQ-Y RYMQ-U

> VRV4 Heat pump Piping restrictions 1/3

riping restrictions 1/	-							
	Maximum piping length			Maximum height difference			Total piping length	
For the reference drawing, see		Longest pipe	After first branch	After first branch (for multi-outdoor)	Indoor-to-outdoor ⁽³⁾	Indoor-to-indoor	Outdoor-to-outdoor	rotal pipilig leligtii
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					Odladori			
VRV DX indoor units only		165/(190)m	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	1000m
Standard multi-combination								
All multi-outdoor-unit combinations except standard multi-outdoor-unit combinations		135/(160)m	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	500m
Hydrobox connection		135/(160)m	40m	10/(13)m	50/(40)m	15m	5m	300-500m ⁽⁵⁾
RA connection		100/(120)m	50m ⁽²⁾	-	50/(40)m	15m	-	250m
	Pair	50/(55)m ⁽⁴⁾	-	-	40/(40)m	-	-	-
AHU connection	Multi (6)	165/(190)m	40m	10/13m	40/(40)m	15m	5m	1000m
	Mix (7)	165/(190)m	40m	10/13m	40/(40)m	15m	5m	1000m

Remark

For standard multi-outdoor-unit combinations, see 3D079534.

- (1) If all conditions below are met, the limitation can be extended up to 90 \mbox{m}
 - a. The piping length between all indoor units and the nearest branch kit is \leq 40m.
 - b. It is necessary to increase the size of the gas and liquid piping if the pipe length between the first and the farthest indoor unit is >40m.

If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.

 $\ensuremath{\text{c}}.$ When the piping size is increased, the piping length has to be counted as double.

The total piping length has to be within limitations.

- d. The piping length difference between the nearest indoor unit from the first branch to the outdoor unit and the farthest indoor unit to the outdoor unit is ≤ 40 m.
- If the piping length between the first branch and the BP box or VRV indoor unit is more than 20m, increase the length of the gas and liquid piping between the first branch and the BP box or VRV indoor unit.
- (3) An extension to up to 90 m is possible without an additional option kit. Respect the following conditions:
 - $\mbox{->}$ If the outdoor units are positioned higher than the indoor units:
 - a. Size up the liquid piping
 - b. A dedicated setting on the outdoor unit is required.
 - -> If the outdoor units are positioned lower than the indoor units:
 - a. 40~60m Minimum connection ratio: 80%

60~65m Minimum connection ratio: 90%

65~80m Minimum connection ratio: 100%

80~90m Minimum connection ratio: 110%

b. Size up the liquid piping

A dedicated setting on the outdoor unit is required.

- (4) The allowable minimum length is 5 m.
- (5) In case of multi-outdoor-unit combinations.
- (6) Multiple air handling units (AHU)(EKEXV + EKEQ kits).
- (7) Mix of AHU units and VRV DX indoor
- (8) If the equivalent piping length between is > 90m, size up the main liquid and gas piping.

3D079540E

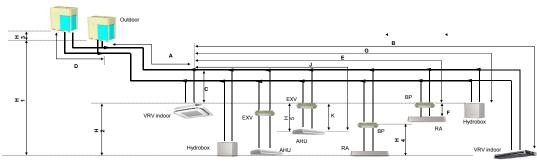


12 - 3 Refrigerant Pipe Selection

RXYQ-U RYYQ-U RYMQ-U

VRV4 Heat pump

Piping restrictions 2/3



- Remark
 (1) Schematic indication
- Illustrations may differ from the actual appearance of the unit.
- (2) This is only to illustrate piping length limitations.
 Combination of indoor unit types is not allowed.

Refer to combination table 3D079543 for details about the allowed combinations.

		Allowed p	iping length	Maximum height difference			
		BP to RA EXV to AHU		BP to RA	EXV to AHU		
		(F)	(K)	(H4)	(H5)		
RA connection		2~15m	-	5m	-		
AHU connection	Pair	-	≦5m	-	5m		
	Multi (1)	-	≦ 5m	-	5m		
	Mix (2)	-	≦5m	-	5m		

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

3D079540E



12 - 3 Refrigerant Pipe Selection

RXYQ-U RYYQ-U RYMQ-U

> 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	50~130%	Max.64	50~130%	=	Ξ	-
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	50~130%	Max.32	50~130%	-	0~80%	-
VRV DX indoor unit + AHU	50~110% ⁽³⁾	Max.64 ⁽²⁾	50~110%	=	≡	0~110%
AHU only	90~110% ⁽³⁾	Max 64 ⁽²⁾				90~110%
Pair + multi (4)	90~110%(**	Max.64(=)	=	=	-	

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 ${\bf r}$
- (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 $\ensuremath{\mathsf{FXMQ_MF}}$ 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.

3D079540E

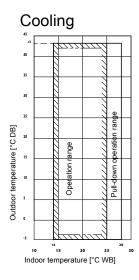


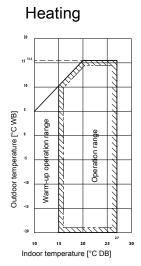


13 Operation range

13 - 1 Operation Range

RXYQQ-U RXYQ-U RYYQ-U RYMQ-U





Notes

1. These figures assume the following operation conditions

Indoor and outdoor units Equivalent piping length: 5m

Level difference: 0m

- 2. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- 3. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
- 4. Operation range is valid in case direct expansion indoor units are used.

3D118465



Appropriate Indoors 14

14 - 1 Appropriate Indoors

RXYQ-U RYYQ-U RYMQ-U

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

 HP	8	10	12	14	16	18	20
	4xFXMQ50	4xFXMQ63	6xFXMQ50	1xFXMQ50 5XFXMQ63	4XFXMQ63 2xFXMQ80	3xFXMQ50 5XFXMQ63	2xFXMQ50 6xFXMQ63

 $For multi outdoor units \cdot > 16 HP \cdot, the \ recommended \ amount \ of \ indoor \ units \ is \ the \ sum \ of \ the \ indoor \ units \ defined \ for \ a \ single \ outdoor \ units \ index \ outdoor \ units \ index \ units$

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

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

Covered by ·ENER LOT21·

FXFQ20-25-32-40-50-63-80-100-125 FXZQ15-20-25-32-40-50 FXCQ20-25-32-40-50-63-80-125 FXKQ25-32-40-63 FXDQ15-20-25-32-40-50-63 FXSQ15-20-25-32-40-50-63-80-100-125-140 FXMQ50-63-80-100-125-200-250 FXAQ15-20-25-32-40-50-63 FXHQ32-63-100 FXUQ71-100

FXLQ20-25-32-40-50-63 Covered by ·ENER LOT10·

FXNQ20-25-32-40-50-63

FTXJ25-35-50 FTXA20-25-35-42-50 FLXS25-35-50-60 FVXM25F-35F-50F FVXG25-35-50 FTXM20R-25R-35R-42R-50R-60R-71R

CVXM20A

Outside the scope of ·ENER LOT21·

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

3D118461D CYVL100-150-200-250



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