

VRV IV water cooled series Air Conditioning Technical Data RWEYQ-T9

RWEYQ8T9Y1B RWEYQ10T9Y1B RWEYQ12T9Y1B RWEYQ14T9Y1B RWEYQ16T9Y1B RWEYQ18T9Y1B RWEYQ20T9Y1B RWEYQ22T9Y1B RWEYQ24T9Y1B RWEYQ26T9Y1B RWEYQ28T9Y1B RWEYQ30T9Y1B RWEYQ32T9Y1B RWEYQ34T9Y1B RWEYQ36T9Y1B RWEYQ38T9Y1B RWEYQ40T9Y1B RWEYQ42T9Y1B





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1 Features

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Ideal for high rise buildings, using water as heat source

- > Environmental conscious solution: reduced CO2 emmisions thanks to the use of geothermal energy as a renewable energy source and typical lower refrigerant levels making it ideal to comply with EN378
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units, Biddle air curtains and hot water
- Unique zero heat dissipation principle obviates the need for ventilation or cooling in the technical room, maximising installation flexibility
- > 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
- > Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency and no more cold draft by supply of high outblow temperatures

- > Developed for easy installation and servicing: choice between top or front connection for refrigerant piping and rotating switch box for easy access to serviceable parts
- > Compact & lightweight design can be stacked for maximum space saving: 42HP can be installed in less than 0,5m² floorspace
- 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit
- Unified model for heat pump and heat recovery version and geothermal and standard operation
- > Variable Water Flow control option increases flexibility and control
- > 2 analogue input signals allowing external control of ON-OFF, operation mode, error signal, ...
- > Easy compliance with F-gas regulation thanks to automated refrigerant containment check
- > 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





1 Features

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Inverter





Specifications1 - 1 RWEYQ-T9

Technical Spe		ns		RWEYQ8T9	RWEYQ10T9	RWEYQ12T9	RWEYQ14T9
Recommended con	nbination			4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 FXMQ63P7VEB
Cooling capacity	Prated,c		kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)
	Nom.	30°C inlet Nom. Waterflow	Btu/h	73,000 (4)	92,000 (4)	110,000 (4)	131,000 (5)
		water temp. ID27/19 AHRI	kW	21.30 (4)	27.00 (4)	32.10 (4)	38.40 (5)
		30°C inlet Nom. Waterflow water temp. ID27/19 ISO	Btu/h kW	73,430 (2) 21.51 (2)	92,080 (2) 26.99 (2)	109,480 (2) 32.09 (2)	131,510 (3) 38.54 (3)
leating capacity	Prated,h	150	kW	25.0	31.5	37.5	45.0
	Max.	6°CWB	kW	25.0 (6)	31.5 (6)	37.5 (6)	45.0 (6)
ower input - 50Hz	Cooling	Nom. 30°C inlet water temp. ID27/19 AHRI	kW	4.52 (4)	5.59 (4)	7.59 (4)	9.01 (5)
		30°C inlet water temp. ID27/19 ISO	kW	4.45 (2)	5.47 (2)	7.45 (2)	8.96 (3)
ER at nom. apacity	30°C inlet water	Nom. Waterflow	Btu/ h/W	16.10 (4)	16.50 (4)	14.50 (4)	14.50 (5)
	temp. ID27/19 AHRI	Nom. Waterflow	kW/kW	4.71 (4)	4.83 (4)	4.23 (4)	4.26 (5)
		Nom. Waterflow	Btu/ h/W	16.49 (2)	16.83 (2)	14.71 (2)	14.69 (3)
	temp. ID27/19 ISO	Nom. Waterflow	kW/kW	4.83 (2)	4.93 (2)	4.31 (2)	4.30 (3)
COP				13.3	11.8	11.1	10.1
EER			Ì	8.4	7.9	9.2	8.5
S,C			%	326.8	307.8	359.0	330.7
s,h			%	524.3	465.9	436.0	397.1
pace cooling	A Condition	EERd	%	5.6	4.6	5.4	4.2
	(35°C - 27/19), cooling tower (inlet/outlet) 30/35	Pdc	kW	22.4	28.0	33.5	40.0
	B Condition	EERd	%	6.9	6.3	7.0	6.3
	(30°C - 27/19), cooling tower (inlet/outlet) 26/*	Pdc	kW	16.5	20.6	24.7	29.5
	C Condition	EERd	%	10.1	9.1	10.5	9.4
	(25°C - 27/19), cooling tower (inlet/outlet) 22/*	Pdc	kW	10.6	13.3	15.9	18.9
	D Condition	EERd	%	11.9	12.3	14.9	15.6
	(20°C - 27/19),	Pdc	kW	7	.9	8.2	8.4
pace heating	TBivalent	COPd (declared COP)		7.2	6.1		5.8
Average climate)		Pdh (declared heating cap)	kW	25.0	31.5	37.5	45.0
		Tbiv (bivalent temperature)	°C			0	
	TOL	COPd (declared COP)	LAA	7.2	6.1		5.8
		Pdh (declared heating cap) Tol (temperature operating	°C kW	25.0	31.5	37.5 0	45.0
	A Con-	limit) COPd (declared COP)		0 1	71	6.6	EO
	dition	Pdh (declared heating cap)	kW	8.1 22.1	7.1 27.9	6.6 33.2	5.8 39.6
		COPd (declared COP)		13.0	11.4	10.7	9.5
		Pdh (declared heating cap)	kW	13.5	17.0	20.2	24.3
pace heating		COPd (declared COP)	114:	19.1	16.8	15.5	14.3
Average climate)		Pdh (declared heating cap)	kW	8.9	10.9	13.0	15.8
	D Con- dition	COPd (declared COP) Pdh (declared heating cap)	kW	19.1 8.9	20.1	19.3	23.8 9.2
anacity	(12°C)		LID.	0	10	12	14
Capacity range	Catagorii		HP	8	10	12	14
PED	Most critical	Name Ps*V	Bar*l		Liquid	gory II receiver	
	critical part	L2.A	Ddf"l		4	34	



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Technical Spe		ns			RWEYQ8T9	RWEYQ10T9	RWEYQ12T9	RWEYQ14T9		
Indoor index	Min.				100.0	125.0	150.0	175.0		
connection	Max.	11.1.1.			300.0	375.0	450.0	525.0		
Dimensions	Unit	Height Width		mm		98 76				
		Depth		mm mm		56				
	Packed	Height		mm		1,13				
	unit	Width		mm		89				
	unic	Depth		mm		66				
Weight	Unit	Берин		kg	10	95		 97		
···c·g···	Packed ur	nit		kg		07		08		
Packing	Material					Cart				
3	Weight			kg		3.	1			
Packing 2	Material					Woo	od			
	Weight			kg		8.3	3			
Packing 3	Material					Plas	tic			
	Weight			kg		0.2				
Casing	Colour					lvory v				
	Material					Painted galvani	· · · · · · · · · · · · · · · · · · ·			
Heat exchanger	Туре					Brazed				
	Indoor sid					Ai				
	Outdoors			L		wat				
			er pressure	bar ³ /l-	4.4./0\	37.		0.2 (0)		
	Water	Cooling	Rated	m³/h	4.4 (8)	5.5 (8)	6.6 (8)	8.3 (8)		
Compress	flow rate	Heating	Rated	m³/h	6.1 (8)	7.6 (8)	8.9 (8)	10.3 (8)		
Compressor	Quantity Type					Hormotically soaled ser	all invertor compresses			
	Crankcase	hoator		w	Hermetically sealed scroll inverter compressor 33					
Operation range	Inlet	Cooling	Min.	°CDB	10					
Operation range	water	Cooling	IVIIII.	CDB		IC	,			
	tempera-									
	ture									
Operation range	Inlet	Cooling	Max.	°CDB		45	5			
	water	Heating	Min.	°CWB		10				
	tempera-	3	Max.	°CWB		45				
	ture									
	Temper-	Max.		°CDB		40)			
	ature									
	around									
	casing									
	Humidity		Max.	%		80				
	around	Heating	Max.	%		80	J			
Sound power level	casing	Nom.		dBA	65.0 (9)	71.0 (9)	72.0 (9)	74.0 (9)		
Sound pressure	Cooling	Nom.		dBA	48.0 (10)	50.0 (10)	56.0 (10)	58.0 (10)		
level	Cooling	NOITI.		UDA	1 0.0 (10)	30.0 (10)	50.0 (10)	30.0 (10)		
Refrigerant	Туре					R-41	0A	<u>I</u>		
	GWP					2,08				
	Charge			TCO2Eq	16	5.5		0.0		
	Charge			kg		9		.6		
Refrigerant oil	Type				-	Synthetic (ethe				
Piping connections		Туре				Braze con				
-		OD		mm	9.52 12.7					
	Gas	Туре				Braze con				
		OD		mm	19.1 (11)	22.2 (11)	28.6	5 (11)		
	HP/LP	Туре				Brazing co				
	gas	OD		mm	15.9 (12) / 19.1 (13)	19.1 (12) / 22.2 (13)	19.1 (12) / 28.6 (13)	22.2 (12) / 28.6 (13		
	Drain	Size				14mm OD/	10mm ID			
		Туре		mm		Flexible P				
	Water	Inlet	Туре			External				
			Size			ISO 228-				
		Outlet	Туре			External				
			Size			ISO 228-				
	Total	System	Actual	m		500	(14)			
	piping									
	length									
Capacity control	Method					Inverter co				
Indication if the hea						no				
Supplementary		Heating	elbu	kW		0.0	Ü			
heater	capacity									





RWEYO-T9

Technical Spe	cificatio	ns			RWEYQ8T9	RWEYQ10T9	RWEYQ12T9	RWEYQ14T9
Power consump-	Crank-	Cooling	PCK	kW	•	0.00	00	-
tion in other than	case	Heating	PCK	kW		0.00	00	
active mode	heater							
	mode							
	Off mode	Cooling	POFF	kW		0.04	16	
		Heating	POFF	kW		0.05	50	
	Standby	Cooling	PSB	kW		0.04	16	
	mode	Heating	PSB	kW		0.05	50	
	Thermo-	Cooling	PTO	kW		0.01	13	
	stat-off	Heating	PTO	kW		0.06	57	
	mode							
Cooling	Cdc (Degr	radation c	ooling)			0.2	5	
Heating	Cdh (Deg	radation h	eating)			0.2	5	
Safety devices	ltem	01				High pressu	ıre switch	
		02				Inverter overlo	ad protector	
		03				PC boar	d fuse	

Standard accessories: Installation manual: Quantity: 1:

Standard accessories: Operation manual: Quantity: 1:

Standard accessories: Water supply piping with strainer; Quantity: 1;

Electrical Sp	ecifications		RWEYQ8T9	RWEYQ10T9	RWEYQ12T9	RWEYQ14T9			
Power supply	Name		•	Y					
	Phase		3N~						
	Frequency	Hz	50						
	Voltage	V		380-	415				
Power supply int	ake			Both indoor an	d outdoor unit				
Voltage range	Min.	%	-10						
	Max.	%	10						
Current	Nominal Cooling running current	A (2)	6.5 (15)	9.0 (15)	10.0 (15)	12.6 (15)			
Current - 50Hz	(RLA) Nominal Combina- Cooling running tion A	А		-					
curr (RLA	current Combina- Cooling (RLA) tion B	А		-					
	Starting current (MSC) - remar	<		See no	ote 16				
	Zmax List		No requirements						
	Minimum Ssc value	kVa		1,780	(16)				
	Minimum circuit amps (MCA)	A	15.5 (17)	16.4 (17)	19.5 (17)	22.3 (17)			
	Maximum fuse amps (MFA)	A	20	(18)	25	(18)			
	Total overcurrent amps (TOCA) A		25.0	(19)				
Power Perfor-	Power Combina- 35°C ISO	Full load		-					
mance	factor tion B 46°C ISO	- Full load							
Wiring connec-	For Quantity			50	ĵ.				
tions - 50Hz	power								
	supply								
	For Quantity			2					
	connec- Remark tion with			F1,	F2				
	indoor								

(1)Cooling: indoor temp. 27°CDB, 19°CWB; inlet water temperature: 30° C; equivalent refrigerant piping: 7.5m; level difference: 0m. | (2)Cooling T3: Indoor temp 29° CDB/19°CWB Water inlet temp 30° C Nom. waterflow Equivalent piping length 7,6m Level difference piping 0m Power input indoors included According to teststandard ISO 13256: (3)Cooling T3: Indoor temp 29°CDB/19°CWB Water inlet temp 30°C Nom. waterflow Equivalent piping length 7,5m Level difference piping 0m Power input indoors included According to teststandard ISO 13256:

(4)Cooling T1: Indoor temp 27°CDB/19°CWB Water inlet temp 30°C Nom. waterflow Equivalent piping length 7,6m Level difference piping 0m Power input indoors included According to teststandard AHRI 1230:

(5)Cooling T1: Indoor temp 27°CDB/19°CWB Water inlet temp 30°C Nom. waterflow Equivalent piping length 15,5m Level difference piping 0m Power input indoors included According to teststandard AHRI 1230:

(6)Heating: indoor temp. 20°CDB; inlet water temperature: 20°C; equivalent piping length: 7.5m; level difference: 0m |
(7)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%) |
(8)Water flow rate for performance testing according to standard rating conditions of EN 14511-2. |

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

(11)In case of heat pump system, gas pipe is not used | (12)In case of heat recovery system |

(13)In case of heat pump system | (14)Refer to refrigerant pipe selection or installation manual |

(15)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; inlet water temp. 30°C |

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

(18)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). | (19)TOCA means the total value of each OC set. |

 $MSC\ means\ the\ maximum\ current\ during\ start\ up\ of\ the\ compressors.\ This\ unit\ uses\ only\ inverter\ compressors.\ Starting\ current\ is\ always\ \le\ max.\ running\ current.\ |$

Maximum allowable voltage range variation between phases is 2%. I

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





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

Sec: Short-circuit power | For detailed contents of standard accessories, see installation/operation manual |

Multi combination (10~54HP) data is corresponding with the standard multi combination

Technical spe	cificatio	ns System		RWEYQ16T9	RWEYQ18T9	RWEYQ20T9	RWEYQ22T9	RWEYQ24T9
System	Outdoor	unit module 1		RWE	YQ8T	RWE	YQ10T	RWEYQ12T
	Outdoor	unit module 2		RWEYQ8T	RWE	YQ10T	RWE	YQ12T
Recommended co	mbination				1	8 x FXMQ63P7VEB	6 x FXMQ50P7VEB +	12 x FXMQ50P7VEB
				2 x FXMQ80P7VEB	4 x FXMQ63P7VEB		4 x FXMQ63P7VEB	
Cooling capacity	Prated,c		kW	44.8 (1)	50.4 (1)	56.0 (1)	61.5 (1)	67.0 (1)
Heating capacity	Prated,h		kW	50.0	56.5	62.5	69.0	75.0
	Max.	6°CWB	kW	50.0 (6)	56.5 (6)	62.5 (6)	69.0 (6)	75.0 (6)
SCOP				11.7	12.5	11.9	11.4	11.1
SEER					7.9	7.7	8.0	8.8
ηs,c			%	307.6	308.7	298.1	311.3	342.6
ηs,h			%	459.2	491.1	466.8	447.9	434.5
Space cooling	A Condition	EERd	%	5.1	5.0	4.6	5.0	5.4
	(35°C - 27/19), cooling tower (inlet/outlet) 30/35	Pdc	kW	44.8	50.4	56.0	61.5	67.0
	B Condition	EERd	%	6	5.5	6.3	6.6	7.0
	(30°C - 27/19), cooling tower (inlet/outlet)	Pdc	kW	33.0	37.1	41.3	45.3	49.4
	26/*							
	C Condition	EERd	%	9.0	9.5	9.1	9.8	10.5
	(25°C - 27/19), cooling tower (inlet/outlet) 22/*	Pdc	kW	21.2	23.9	26.5	29.1	31.7
	D Condition	EERd	%	11.0	10.1	9.9	9.4	11.5
	(20°C - 27/19),	Pdc	kW	9.4	10.6	11.8	13.0	14.1
Space heating	TBivalent	COPd (declared COP)		6.1	6.6	6.2	6.0	5.8
(Average climate)		Pdh (declared heating cap)	kW	50.0	56.5	63.0	69.0	75.0
		Tbiv (bivalent temperature)	°C			-10		
	TOL	COPd (declared COP)		6.1	6.6	6.2	6.0	5.8
		Pdh (declared heating cap)	kW	50.0	56.5	63.0	69.0	75.0
		Tol (temperature operating limit)	°C			-10		
	A Con-	COPd (declared COP)		6.9	7.5	7.1	6.8	6.6
	dition	Pdh (declared heating cap)	kW	44.2	50.0	55.7	61.0	66.3
	(-7°C)	3 17						
	B Condi-	COPd (declared COP)		11.4	12.1	11.4	11.0	10.7
	tion (2°C)	Pdh (declared heating cap)	kW	26.9	30.4	33.9	37.2	40.4
		COPd (declared COP)		16.3	17.8	16.8	16.1	15.5
	tion (7°C)	Pdh (declared heating cap)	kW	17.5	19.8	21.8	23.9	26.0
	D Con-	COPd (declared COP)		17.8	17.7	18.3	17.0	16.7
	dition (12°C)	Pdh (declared heating cap)	kW	8.6	8.7	9.6	10.6	11.5
Capacity range			HP	16	18	20	22	24
PED	Category					Category II		
	Most	Name				Liquid receiver		
	critical part	Ps*V	Bar*l			484		
Maximum number	of connect	able indoor units				64 (7)		
Indoor index	Min.			200.0	225.0	250.0	275.0	300.0
connection	Max.			600.0	675.0	750.0	825.0	900.0
Heat exchanger	Indoor sid	le				Air		
-	Outdoor	side				water		
	Water	Cooling Rated	m³/h	8.9 (8)	9.9 (8)	11.0 (8)	12.2 (8)	13.3 (8)
	flow rate	Heating Rated	m³/h	12.1 (8)	13.6 (8)	15.1 (8)	16.4 (8)	17.7 (8)
Sound power level		Nom.	dBA	68.0 (9)	72.0 (9)	74.0 (9)		0 (9)
Sound pressure level	Cooling	Nom.	dBA	51.0 (10)	52.0 (10)	53.0 (10)	57.0 (10)	59.0 (10)
Refrigerant	Туре					R-410A		,
3	GWP					2,087.5		
Refrigerant oil	Туре				Svr	thetic (ether) oil FVC	68D	
	71: -							



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Technical spe	cificatio	ns Syst	em		RWEYQ16T9	RWEYQ18T9	RWEYQ20T9	RWEYQ22T9	RWEYQ24T9		
Piping connections	s Liquid	Туре					Braze connection				
		OD		mm	12.7	12.7 15.9					
	Gas	Type			Braze connection						
		OD		mm	28.6 (11) 34.9 (11)						
	HP/LP	Type									
	gas	OD		mm	22.2 (12) / 28.6 (13) 28.6 (12) / 28.6 (13) 28.6 (12)						
	Drain	Size			14mm OD/ 10mm ID						
		Type		mm			Flexible PVC hose				
	Water	Inlet	Type		External thread						
			Size		ISO 228-G11/4 B						
		Outlet	Туре				External thread				
			Size		ISO 228-G1 1/4 B						
	Total	System	Actual	m	500 (14)						
	piping										
	length										
Capacity control	Method						Inverter controlled				
Indication if the he		• •					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			0.000				
active mode	heater										
	mode	C !:	2055	1347							
	Off mode		POFF	kW			0.092				
	CtII	Heating		kW	-		0.100				
	Standby mode		PSB PSB	kW kW	0.092						
		Heating					0.100				
	Thermo- stat-off			kW kW			0.026				
	mode	Heating	PTO	KVV			0.134				
Cooling	Cdc (Degi	radation c	oolina)				0.25				
Heating	Cdh (Deg				0.25						
Safety devices	Item	01	. <i>J</i> ,				High pressure switch				
,		02					erter overload prote				
		03			1		PC board fuse				

Technical spe	ecificatio	ns System		RWEYQ26T9	RWEYQ28T9	RWEYQ30T9	RWEYQ32T9	RWEYQ34T9
System	Outdoor	unit module 1		RWEYQ12T	RWEYQ14T		RWEYQ10T	
	Outdoor	unit module 2		RWE	YQ14T	RWE'	YQ10T	RWEYQ12T
	Outdoor	unit module 3			-	RWEYQ10T	RWE	YQ12T
Recommended co	Recommended combination				2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	12 x FXMQ63P7VEB		12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB
Cooling capacity	Prated,c		kW	73.5 (1)	80.0 (1)	84.0 (1)	89.5 (1)	95.0 (1)
Heating capacity	Prated,h		kW	82.5	90.0	94.5	100.5	106.5
	Max.	6°CWB	kW	82.5 (6)	90.0 (6)	94.5 (6)	100.5 (6)	106.5 (6)
SCOP				10.4	9.9	11.9	11.6	11.4
SEER				8.3	7	.9	8.2	8.8
ηs,c			%	322.5	306.1	308.3	318.2	342.5
ηs,h			%	406.9	387.9	467.2	456.1	447.0
Space cooling	A Condition	EERd	%	4.9	4.5	4.6	4.9	5.1
	(35°C - 27/19), cooling tower (inlet/outlet) 30/35	Pdc	kW	73.5	80.0	84.0	89.5	95.0
	B Condition	EERd	%	6.6	6	.3	6.5	6.7
	(30°C - 27/19), cooling tower (inlet/outlet) 26/*	Pdc	kW	54.2	58.9	61.9	66.0	70.0
	C Condition	EERd	%	9.9	9.4	9.1	9.6	10.1
	(25°C - 27/19), cooling tower (inlet/outlet) 22/*	Pdc	kW	34.8	37.9	39.8	42.4	45.0
	D Condition	EERd	%	10.8	10.2	11.6	11.2	13.5
	(20°C - 27/19),	Pdc	kW	15.5	16.8	17.7	18.8	20.0



Specifications1 - 1 RWEYQ-T9

Technical spe					RWEYQ26T9	RWEYQ28T9	RWEYQ30T9	RWEYQ32T9	RWEYQ34T9		
Space heating	TBivalent		clared COP)		5.3	4.9	6.2	6.1	5.9		
(Average climate)			ared heating cap)	kW	82.5	90.0	94.5	100.5	106.5		
			lent temperature)	°C			-10	I	1		
	TOL		clared COP)		5.3	4.9	6.2	6.1	5.9		
							100.5	106.5			
			erature operating	°C			-10				
	A C	limit)	alawa d COD)		C1	F 7					
	A Con-		clared COP)	1.14/	6.1	5.7	7.1	6.9	6.7		
	dition (-7°C)	Pan (aeci	ared heating cap)	kW	73.0	79.6	83.6	88.9	94.2		
	· ,	COPd (de	clared COP)		10.0	9.5	11.4	11.1	10.9		
			ared heating cap)	kW	44.4	48.5	50.9	54.1	57.3		
			clared COP)	KVV	14.8	14.3	16.8	16.3	15.9		
			ared heating cap)	kW	28.6	31.2	32.7	34.8	36.9		
	D Con-		clared COP)	IXVV	15.8	16.0	<u> </u>	9.4	19.3		
	dition		ared heating cap)	kW	12.7	13.9		7.7	17.6		
	(12°C)		,								
Capacity range				HP	26	28	30	32	34		
PED	Category						Category II				
	Most	Name					Liquid receiver				
	critical										
	part										
PED	Most	Ps*V		Bar*l			484				
	critical										
	part										
Maximum number		table indo	or units				64 (7)				
Indoor index	Min.				325.0	350.0	375.0	400.0	425.0		
connection	Max.	1.			975.0	1,050.0	1,125.0	1,200.0	1,275.0		
Heat exchanger	Indoor sid				Air						
	Outdoor		Datad	m³/h	14.0 (0)	16.1	water	177 (0)	10.0 (0)		
	Water	Cooling	Rated	m/n m³/h	14.9 (8)		5 (8)	17.7 (8)	18.8 (8)		
Sound power level		Heating Nom.	Rated	dBA	19.2 (8)	20.6 (8)	22.7 (8)	24.0 (8)	25.3 (8)		
Sound power level	Cooling	Nom.		dBA	76.0 (9) 60.0 (10)	77.0 (9) 61.0 (10)	55.0 (10)	76.0 (9) 58.0 (10)	60.0 (10)		
level	Cooling	NOIII.		UDA	60.0 (10)	61.0 (10)	55.0 (10)	36.0 (10)	60.0 (10)		
Refrigerant	Type						R-410A				
Remgerant	GWP						2,087.5				
Refrigerant oil	Type					Syn	thetic (ether) oil FVC	68D			
Piping connection		Туре				3,11	Braze connection	000			
p.i.ig comicciton	s Eigaia	OD		mm			19.1				
	Gas	Туре					Braze connection				
		OD		mm			34.9 (11)				
	HP/LP	Туре					Brazing connections	;			
	gas	OD		mm			28.6 (12) / 34.9 (13)				
	Drain	Size					14mm OD/ 10mm ID				
		Туре		mm			Flexible PVC hose				
	Water	Inlet	Type				External thread				
			Size				ISO 228-G1 1/4 B				
		Outlet	Type				External thread				
			Size				ISO 228-G1 1/4 B				
	Total	System	Actual	m			500 (14)				
	piping										
	length										
Capacity control	Method						Inverter controlled				
Indication if the he							no				
Supplementary		Heating	elbu	kW			0.0				
heater	capacity	C!'	DCK	1.147			0.000				
Power consump-	Crank-	Cooling	PCK	kW			0.000				
tion in other than active mode	case heater	Heating	PCK	kW			0.000				
active illoue	neater mode										
		Cooling	POFF	kW		092		0.138			
	On mode	Heating	POFF	kW		100		0.150			
	Standby	Cooling	PSB	kW		092		0.138			
	mode	Heating	PSB	kW		100		0.150			
	Thermo-		PTO	kW		026		0.039			
	stat-off	Heating	PTO	kW		134		0.201			
	mode	ricatilly	. 10	IZ 4 A	0.			0.201			
Cooling		radation co	polina)				0.25				
Heating		radation h					0.25				
Safety devices	Item	01	caming/				High pressure switch	1			
, acriscs		02					erter overload prote				
		03				1110	PC board fuse				
		0.5			1		i C Dodia luse				





1 - 1 RWEYQ-T9

Technical spe				RWEYQ36T9	RWEYQ38T9	RWEYQ40T9	RWEYQ42T9
System		unit module 1			RWEYQ12T	I	RWEYQ14T
		ınit module 2			YQ12T		YQ14T
		unit module 3		RWEYQ12T		RWEYQ14T	ı
Recommended cor	nbination			18 x FXMQ50P7VEB	13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	3 x FXMQ50P7VEB + 15 FXMQ63P7VEB
Cooling capacity	Prated,c		kW	100.5 (1)	107.0 (1)	113.5 (1)	120.0 (1)
Heating capacity	Prated,h		kW	112.5	120.0	127.5	135.0
	Max.	6°CWB	kW	112.5 (6)	120.0 (6)	127.5 (6)	135.0 (6)
SCOP				11.2	10.7	10.3	10.0
SEER				9.0		.7	8.5
ηs,c			%	352.3	338.8	341.4	332.9
ηs,h			%	438.5	419.4	404.4	391.2
Space cooling	A Condition	EERd	%	5.4	5.0	4.7	4.5
	(35°C - 27/19), cooling tower (inlet/outlet) 30/35	Pdc	kW	100.5	107.0	113.5	120.0
	B Condition	EERd	%	7.0	6.7	6.5	6.3
	(30°C - 27/19), cooling tower (inlet/outlet) 26/*	Pdc	kW	74.1	78.8	83.6	88.4
	C Condition	EERd	%	10.5	10.1	9.7	9.4
	(25°C - 27/19), cooling tower (inlet/outlet) 22/*	Pdc	kW	47.6	50.7	53.8	56.8
	D Condition	EERd	%	13.1	12.8	15	5.4
	(20°C - 27/19),	Pdc	kW	21.2	22.5	24.5	25.3
Space heating	TBivalent	COPd (declared COP)		5.8	5.4	5.1	4.9
(Average climate)		Pdh (declared heating cap)	kW	112.5	120.0	127.5	135.0
		Tbiv (bivalent temperature)	°C			10	
	TOL	COPd (declared COP)		5.8	5.4	5.1	4.9
		Pdh (declared heating cap)	kW	112.5	120.0	127.5	135.0
		Tol (temperature operating limit)	°C		-	10	
	A Con-	COPd (declared COP)		6.6	6.3	6.0	5.7
	dition (-7°C)	Pdh (declared heating cap)	kW	99.5	106.2	112.8	119.4
	B Condi-	COPd (declared COP)		10.7	10.2	9.8	9.5
	tion (2°C)	Pdh (declared heating cap)	kW	60.6	64.6	68.6	72.7
	C Condi-	COPd (declared COP)		15.5	15.0	14.6	14.3
	tion (7°C)	Pdh (declared heating cap)	kW	38.9	41.5	44.1	46.7
	D Con-	COPd (declared COP)		19.3	18.8	18.9	18.4
	dition (12°C)	Pdh (declared heating cap)	kW	17.6	18.5	19.6	20.8
Capacity range			HP	36	38	40	42
PED	Category				Cate	gory II	
	Most critical part	Name			Liquid	receiver	
PED	Most critical part	Ps*V	Bar*l		4	84	
Maximum number	•	able indoor units			64	(7)	
Indoor index	Min.			450.0	475.0	500.0	525.0
connection	Max.			1,350.0	1,425.0	1,500.0	1,575.0
Heat exchanger	Indoor sid				А	ir iter	
	Water	Cooling Rated	m³/h	19.9 (8)	21.5 (8)	23.1 (8)	24.8 (8)
	flow rate		m³/h	26.6 (8)	28.0 (8)	29.4 (8)	30.9 (8)
Sound power level		Nom.	dBA	77.0 (9)		0 (9)	79.0 (9)
Sound pressure level	Cooling	Nom.	dBA	61.0 (10)		0 (10)	63.0 (10)
Refrigerant	Туре				R-4	10A	
-	GWP						
	GWP 2,087.5 erant oil Type Synthetic (ether) oil FVC68D						



Specifications1 - 1 RWEYQ-T9

Technical spe	cificatio	ns Syst	em		RWEYQ36T9	RWEYQ38T9	RWEYQ40T9	RWEYQ42T9			
Piping connection	s Liquid	Туре				Braze co	nnection				
	•	OD		mm		1	9.1				
	Gas	Туре				Braze co	nnection				
		OD		mm		41.	3 (11)				
	HP/LP	Туре			Brazing connections						
	gas	OD		mm	28.6 (12) / 41.3 (13) 41.3 (13) 41.3 (13)						
	Drain	Size			14mm OD/ 10mm ID						
		Туре		mm	Flexible PVC hose						
	Water	Inlet	Туре		External thread						
			Size			ISO 228	3-G1 1/4 B				
		Outlet	Туре			Extern	al thread				
			Size			ISO 228	3-G1 1/4 B				
	Total	System	Actual	m	500 (14)						
	piping										
	length										
Capacity control	Method					Inverter	controlled				
Indication if the he		equipped with a supplementary heater					10				
Supplementary	Back-up	Heating	elbu	kW		(0.0				
heater	capacity										
Power consump-	Crank-	Cooling	PCK	kW			000				
tion in other than	case	Heating	PCK	kW		0.	000				
active mode	heater										
	mode										
	Off mode		POFF	kW			138				
		Heating	POFF	kW			150				
	Standby	Cooling	PSB	kW			138				
	mode	Heating	PSB	kW			150				
	Thermo-		PTO	kW	0.039						
	stat-off mode	Heating	PTO	kW	0.201						
Cooling		radation c	oolina)		0.25						
Heating		radation h			0.25						
Safety devices	Item	01				·	sure switch				
,	'-	02					load protector				
		03					ard fuse				

Electrical sp	ecificatio	ns System		RWEYQ16T9	RWEYQ18T9	RWEYQ20T9	RWEYQ22T9	RWEYQ24T9	
Power supply	Name	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	A (2)	13.0 (15)	15.5 (15)	18.0 (15)	19.0 (15)	20.0 (15)	
	running								
	current								
	(RLA)								
Current - 50Hz	Nominal	Combina- Cooling	Α			-			
	running	tion A							
	current	Combina- Cooling	Α						
	(RLA)	tion B							
	Starting of	current (MSC) - remark	See note 16						
	Zmax	List	No requirements						
	Minimum	n Ssc value	kVa	3,560 (16)					
	Minimum	circuit amps (MCA)	Α	31.0 (17)	31.9 (17)	32.7 (17)	35.8 (17)	38.9 (17)	
	Maximun	n fuse amps (MFA)	Α	32 (18) 35 (18) 40 (18)					
	Total ove	rcurrent amps (TOCA)	Α	50.0 (19)					
Power Perfor-	Power	Combina- 35°C ISO - Full I	oad			-			
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	Electrical specifications System RWE			RWEYQ28T9	RWEYQ30T9	RWEYQ32T9	RWEYQ34T9	
Power supply	Name		Y1					
Phase			3N~					
	Frequency	Hz			50			
	Voltage	V			380-415			





1 - 1 RWEYQ-T9

Electrical specifications System				RWEYQ26T9	RWEYQ28T9	RWEYQ30T9	RWEYQ32T9	RWEYQ34T9	
Power supply inta	ake	·			Both	n indoor and outdoor	unit		
Voltage range	Min.		%		-10				
	Max.		%			10			
Current	Nominal running	Cooling	A (2)	22.6 (15)	25.2 (15)	27.0 (15)	28.0 (15)	29.0 (15)	
	current (RLA)								
Current - 50Hz	Nominal running	Combina- Cooling tion A	Α			-			
	current (RLA)	Combina- Cooling tion B	А	-					
	Starting o	current (MSC) - remark	See note 16						
	Zmax	List		No requirements					
	Minimum	n Ssc value	kVa	3,560 (16) 5,340 (16)					
	Minimum	mum circuit amps (MCA) A		41.7 (17)	44.6 (17)	49.1 (17)	52.2 (17)	55.3 (17)	
	Maximun	n fuse amps (MFA)	50 (18) 63 (18)			(18)			
	Total ove	rcurrent amps (TOCA)	Α	50.0 (19) 75.0 (19)					
Power Perfor-	Power	Combina- 35°C ISO - Full	load			-			
mance	factor	tion B 46°C ISO - Full	lload			-			
Wiring connec-	For	Quantity				5G			
tions - 50Hz	power								
	supply								
	For	Quantity		2					
	connec-	Remark		F1,F2					
	tion with indoor								

Electrical sp	ecificatio	ns System		RWEYQ36T9	RWEYQ38T9	RWEYQ40T9	RWEYQ42T9			
Power supply	Name				Υ	1	`			
	Phase			3N~						
	Frequenc	У	Hz		5	0				
	Voltage		V		380	-415				
Power supply int	ake				Both indoor an	d outdoor unit				
Voltage range	Min.		%		-1	0				
	Max.		%		1	0				
Current	Nominal	Cooling	A (2)	30.0 (15)	32.6 (15)	35.2 (15)	37.8 (15)			
	running									
	current									
	(RLA)									
Current - 50Hz	Nominal	Combina- Cooling	Α		-					
	running	tion A								
	current	Combina- Cooling	Α	-						
	(RLA)	tion B								
		current (MSC) - remark		See note 16						
	Zmax	List		No requirements						
		n Ssc value	kVa	5,340 (16)						
		n circuit amps (MCA)	Α	58.3 (17)	61.2 (17) 64.0 (17		66.9 (17)			
		n fuse amps (MFA)	A	63 (18) 80 (18)						
		rcurrent amps (TOCA)	Α	75.0 (19)						
Power Perfor-	Power	Combina- 35°C ISO - Full				•				
mance	factor	tion B 46°C ISO - Full	load							
Wiring connec-	For	Quantity			5	G				
tions - 50Hz	power									
	supply									
	For	Quantity		2						
	connec-	Remark		F1,F2						
	tion with									
	indoor									



Specifications1 - 1 RWEYQ-T9



3 Options

3 - 1 Options

RWEYQ-T9

				Multi .2. unit	Multi ·3· unit
Item					Multi 3 unit
	Outdoor unit				
			KHRQ2		
Heat pump					
					2M75H
l			KHRQ2		
Heat recovery					
					3M75H
			KHRQ2		
Heat pump					
					2M75T
Heat recovery					
					ONZET
Heat pump	See note ·3·.				
					ZP151 <i>1</i>
Heat recovery See note ·3·.		BHFQ23P907 BHFQ23P13!			
			ENDO		JF 133 <i>1</i>
Multi ·BS· unit					
	Heat pump	Heat pump Heat recovery Heat recovery Heat pump Heat recovery See note ·3·.	See note ·1·. See note ·1·. See note ·1·. See note ·1·. Outdoor unit Heat pump Heat recovery Heat pump Heat pump See note ·3·.	See note -1 BRP	RWEY018 RWEY010 RWEY014 RWEY014 RWEY014

Notes

- 1. In case of a heat recovery system, the cool/heat selector cannot be connected.
- It is not allowed to combine 'P'-series BS units (single/multi) with 'A'-series BS units (single/multi).
 For installations without special requirements towards fire regulations, the standard multi-connection kits can be used.
- For installations without special requirements towards fire regulations, the standard multi-connection kits can be used.
 For installations with special requirements towards fire regulations, the insulation material can be replaced by using kits -EKHBFQ1- and -EKHBFQ2.

The -4- kits contain alternative insulation material that complies with -EN13501-1:B-S3,dO- and with -BS476-7- (class -1-).

To replace the insulation material, determine the required number of ·EKBHFQ· kits according to the table below.

	EKBHFQ1	EKBHFQ2
BHFQ22P1007	1	1
BHFQ22P1517	2	2
BHFQ23P907	2	1
BHFQ23P1357	4	2

2D108935D



4 Combination table

4 - 1 Combination Table

RWEYQ-T9

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

Units in scope: $\cdot FXZQ15A \cdot and \cdot FXAQ15A \cdot.$

- 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% -> 
° 105% < CR ≤ 110% -> 
° 105% < CR ≤ 110% -> 
° 105% < CR ≤ 110% -> 
° 110% < CR ≤ 110% -> 
° 110% < CR ≤ 115% -> 
° 110% < CR ≤ 120% -> 
° 110% < CR ≤ 120% -> 
° 120% < CR ≤ 125% -> 
° 120% < CR ≤ 135% -> 
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```

Remark

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

3D104665A





4 Combination table

4 - 1 Combination Table

RWEYQ-T9

·VRV· water-cooled heat pump Multi-unit standard combinations table

	8НР	10НР	12HP	14HP
RWEYQ8	1			
RWEYQ10		1		
RWEYQ12			1	
RWEYQ14				1
RWEYQ16	2			
RWEYQ18	1	1		
RWEYQ20		2		
RWEYQ22		1	1	
RWEYQ24			2	
RWEYQ26			1	1
RWEYQ28				2
RWEYQ30		3		
RWEYQ32		2	1	
RWEYQ34		1	2	
RWEYQ36			3	
RWEYQ38			2	1
RWEYQ40			1	2
RWEYQ42				3

Notes

- 1) It is allowed to have other combinations than those described above.
- 2) Never combine more than $\cdot 3 \cdot$ units to create a multi-combination.

3D108944B



4 Combination table

4 - 1 Combination Table

RXMLQ-T

RXYLQ-T

RWEYQ-T9

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

Wall mounted type	Emura	FTXJ20M
		FTXJ25M
		FTXJ35M
		FTXJ50M
	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 ·3D079540·.

If you want to connect $\cdot RA \cdot / \cdot SA \cdot \cdot DX \cdot$ cassette, ceiling-mounted, or duct indoor units, use their $\cdot VRV \ DX \cdot$ 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 - 3 Capacity Correction Factor

RWEYQ-T9

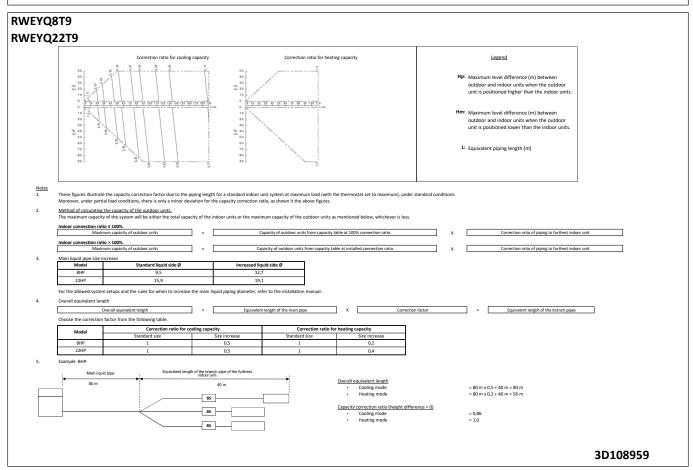
WC VRV Heat recovery **Correction factor**

	Model	Page
Ξ	8HP	2
ı,	10HP	3
Single unit	12HP	4
Si	14HP	5
	16HP	6
	18HP	4
	20HP	8
	22HP	2
	24HP	7
_ ـ	26HP	4
Multi unit	28HP	4
Ħ	30HP	4
Σ	32HP	8
	34HP	8
	36HP	9
	38HP	4
	40HP	4
	42HP	4

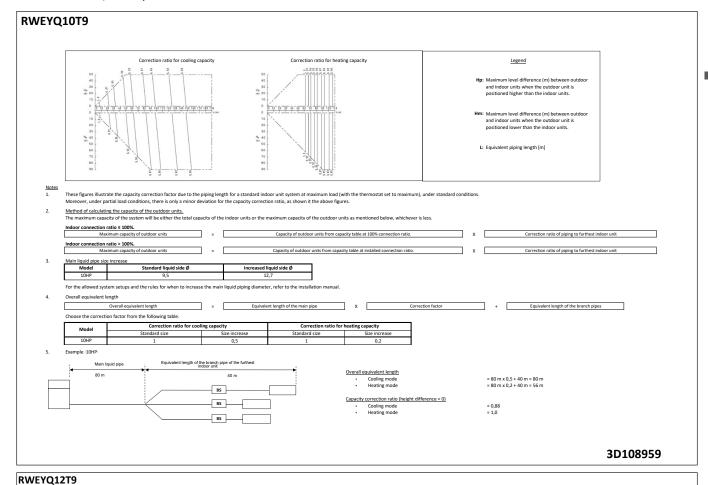
Notes

The multi-combination data corresponds with the standard multi-combinations described on $\cdot 3D108944 \cdot .$

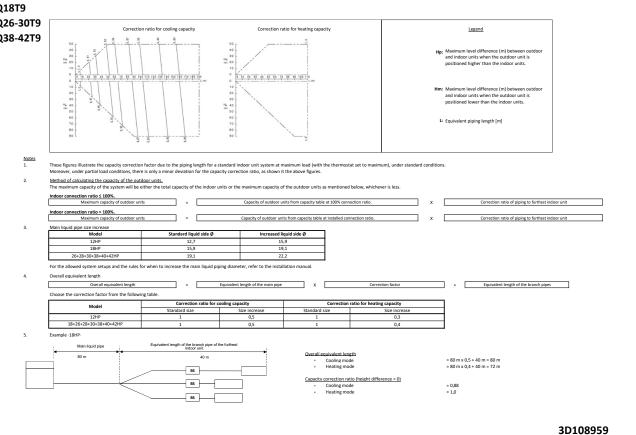
3D108959



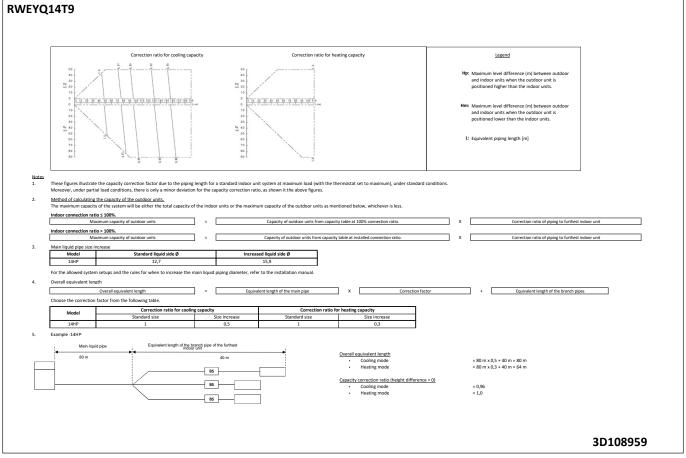


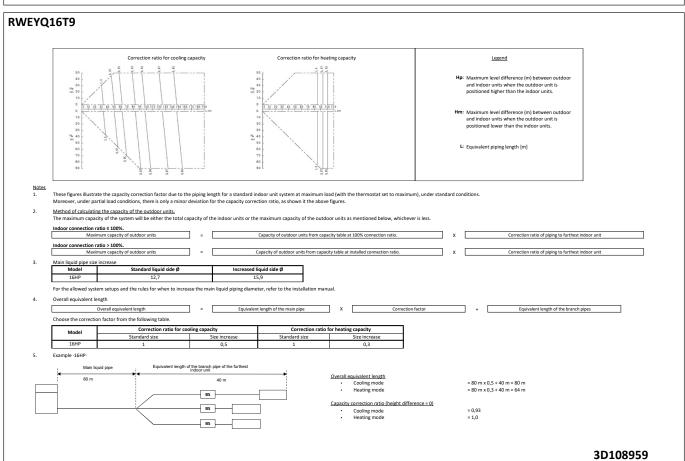




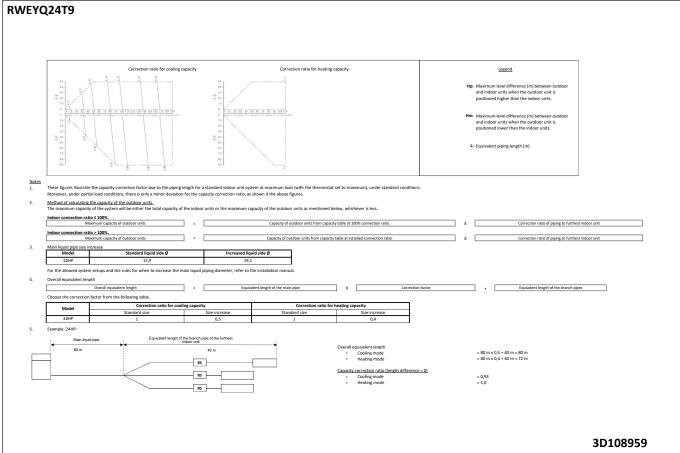


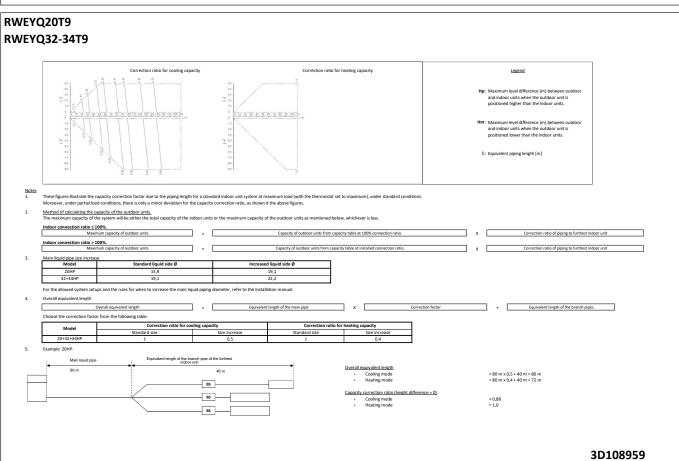






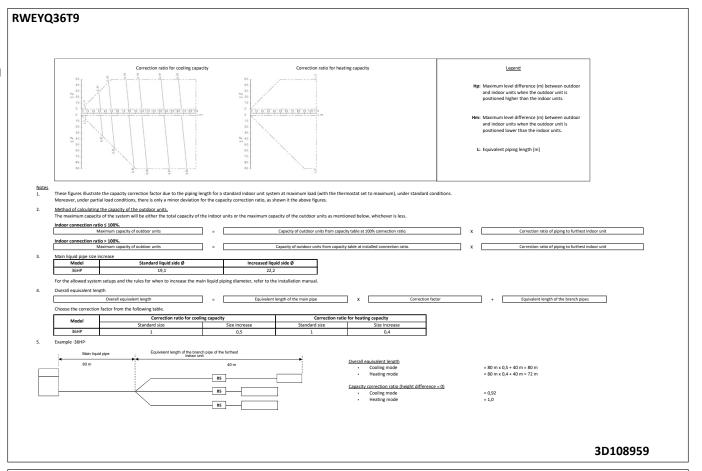








5 - 3 Capacity Correction Factor



RWEYQ-T9

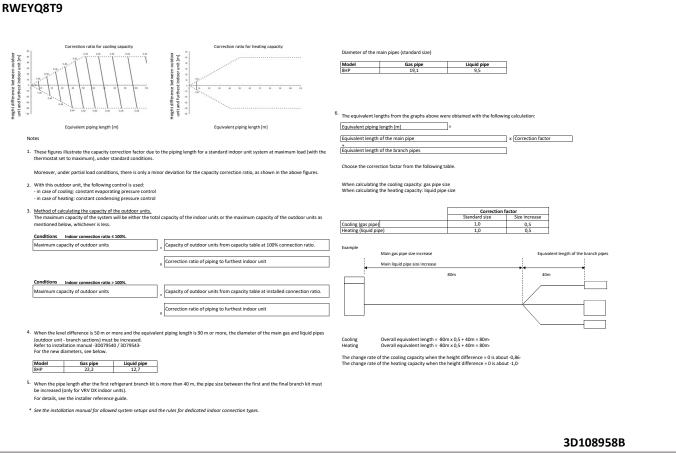
·VRV· water-cooled heat pump **VRV IV (cold regions) Correction factor**

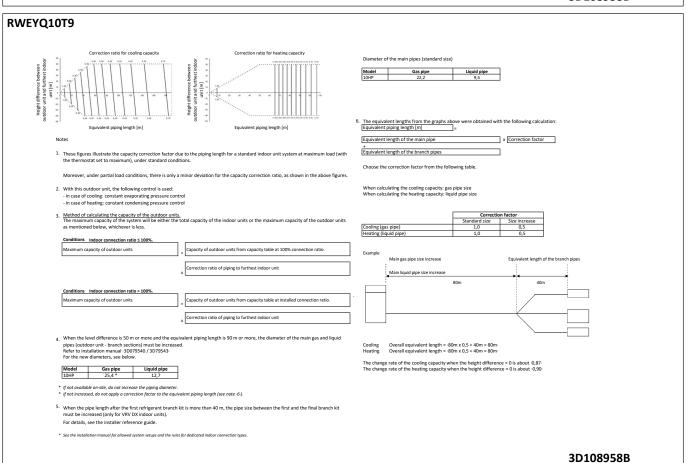
	Model	Page	
¥	8HP	2	
Single unit	10HP	3	
ngle	12HP	4	
Si	14HP	4	
	16HP	4	
	18HP	6	
	20HP	7	
	22HP	8	
	24HP	4	
Ħ	26HP	6	
Multi unit	28HP	6	
불	30HP	6	
>	32HP	7	
	34HP	7	
	36HP	4	
	38HP	6	
	40HP	6	
	42HP	6	

The multi-combination data corresponds with the standard multi-combinations described on ·3D117167·.

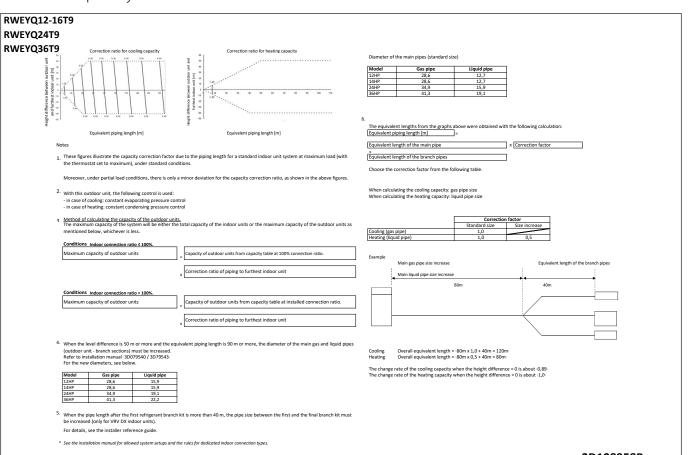
3D108958B

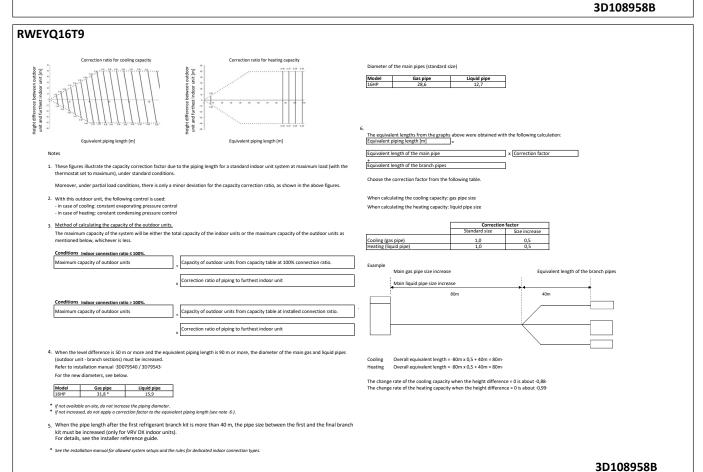




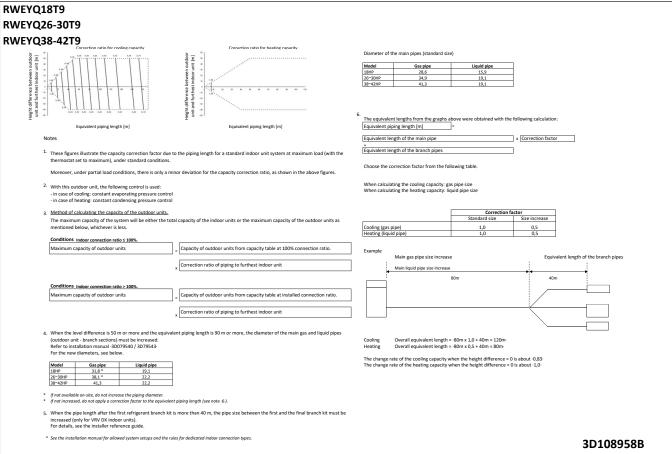


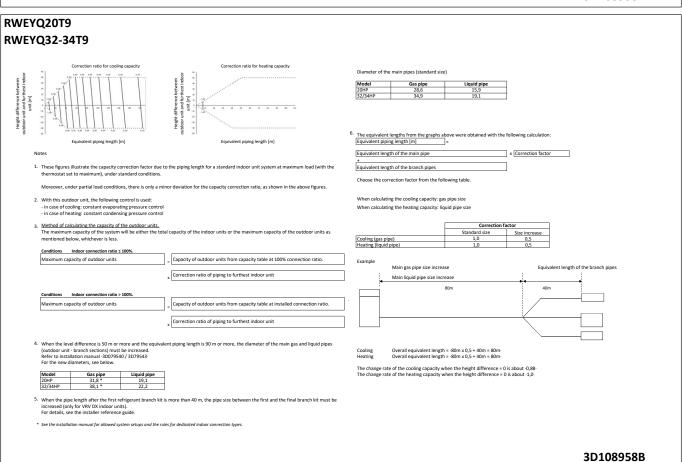






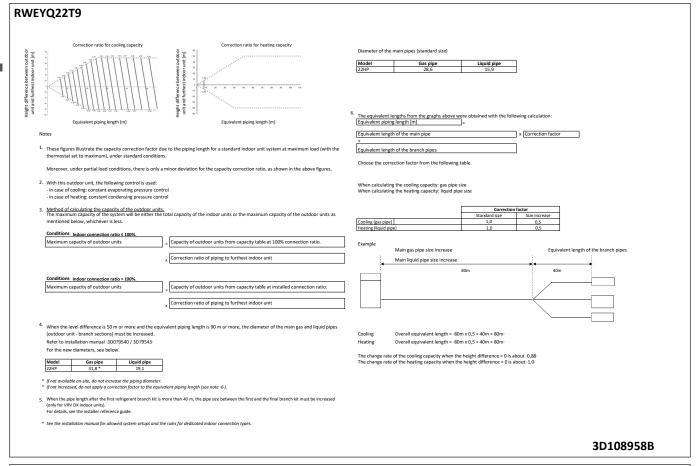








5 - 3 Capacity Correction Factor



RWEYQ-T9

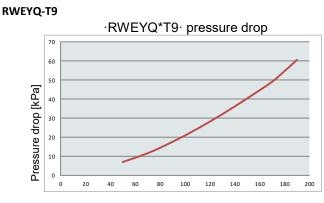
VRV4 Water Cooled Antifreeze Correction Factor

Ethylene Glycol			Propylene Glycol			
	10%	0,998		10%	0,992	
	20%	0,994		20%	0,988	
Cooling capacity	30%	0,990	Cooling capacity	30%	0,983	
	40%	0,985		40%	0,974	
	50%	0,980		50%	0,968	
	10%	0,993		10%	0,985	
	20%	0,989		20%	0,982	
Heating capacity	30%	0,986	Heating capacity	30%	0,978	
	40%	0,982		40%	0,970	
	50%	0,979		50%	0,966	

3D108966



5 - 3 Capacity Correction Factor



The values were measured during nominal cooling operation with an inlet water temperature of $\cdot 30\,^{\circ}\text{C}$.

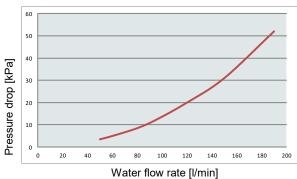
water temperature of 300°C.
The values were measured during nominal cooling operation with an inlet water-glycol temperature of -10°C.
EG: Ethylene glycol
PG: Propylene glycol

·ACH73: · plate heat exchanger (·100· plates)

Influence on performance
-EG 20%: +0.3-K during the condensation process, and -0.5-K during the evaporation process.
-EG 30%: +0.5-K during the condensation process, and -0.5-K during the evaporation process.
-EG 40%: +0.7-K during the condensation process, and -0.7-K during the evaporation process.
-PG 20%: +1.1-K during the condensation process, and -1.3-K during the evaporation process.
-PG 30%: +1.3-K during the condensation process, and -1.3-K during the evaporation process.
-PG 40%: +1.5-K during the condensation process, and -1.5-K during the evaporation process.

Water flow rate [I/min]

Accessory water filter pressure drop



	ACH73 // Delta pressure [kPa]							
I/min	Water	20% EG	30% EG	40% EG	20% PG	30% PG	40% PG	
50	5.4	6.8	6.9	7.0	7.1	7.2	7.5	
60	7.4	9.3	9.4	9.6	9.7	9.8	10.2	
70	9.7	12.1	12.2	12.5	12.6	12.8	13.3	
80	12.3	15.3	15.5	15.9	16.0	16.2	16.9	
90	15.2	18.9	19.1	19.6	19.8	20.1	20.8	
100	18.4	22.9	23.2	23.7	23.9	24.3	25.2	
110	21.9	27.2	27.6	28.2	28.5	28.9	30.0	
120	25.7	31.9	32.2	33.1	33.4	33.9	35.1	
130	29.7	37.0	37.5	38.4	38.7	39.3	40.7	
140	34.1	42.4	43.0	44.0	44.4	45.1	46.8	
150	38.8	48.2	48.9	50.1	50.5	51.2	53.2	
160	43.8	54.4	55.2	56.5	57.0	57.8	60.0	
170	49.1	61.0	61.9	63.3	63.9	64.8	67.3	
180	54.7	67.9	68.9	70.5	71.1	72.2	74.9	
190	60.6	75.2	76.3	78.1	78.8	80.0	83.0	

Water filter //	Delta pressure [kPa]
Flow [l/min]	Water
50	3,5
60	5
80	8,5
96	12,5
120	20
150	31
190	52

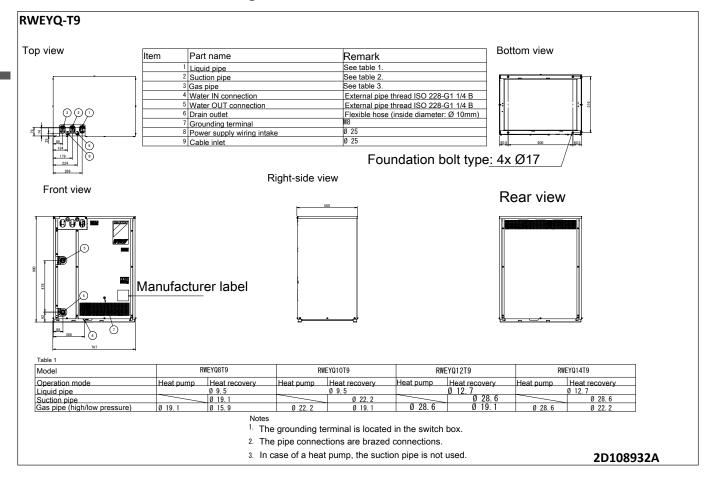
3D108933B





6 Dimensional drawings

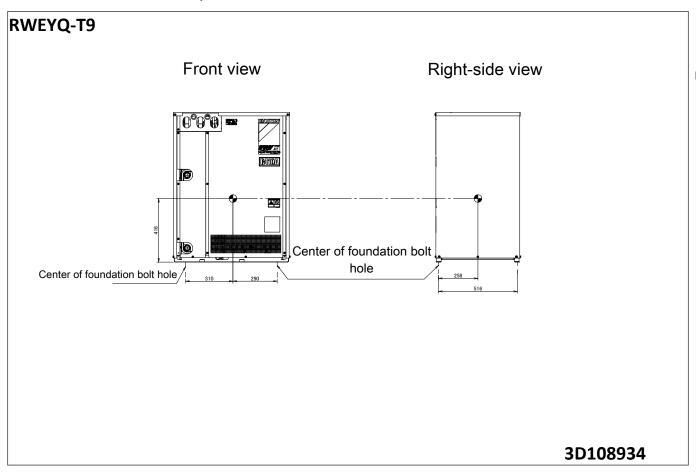
6 - 1 Dimensional Drawings





7 Centre of gravity

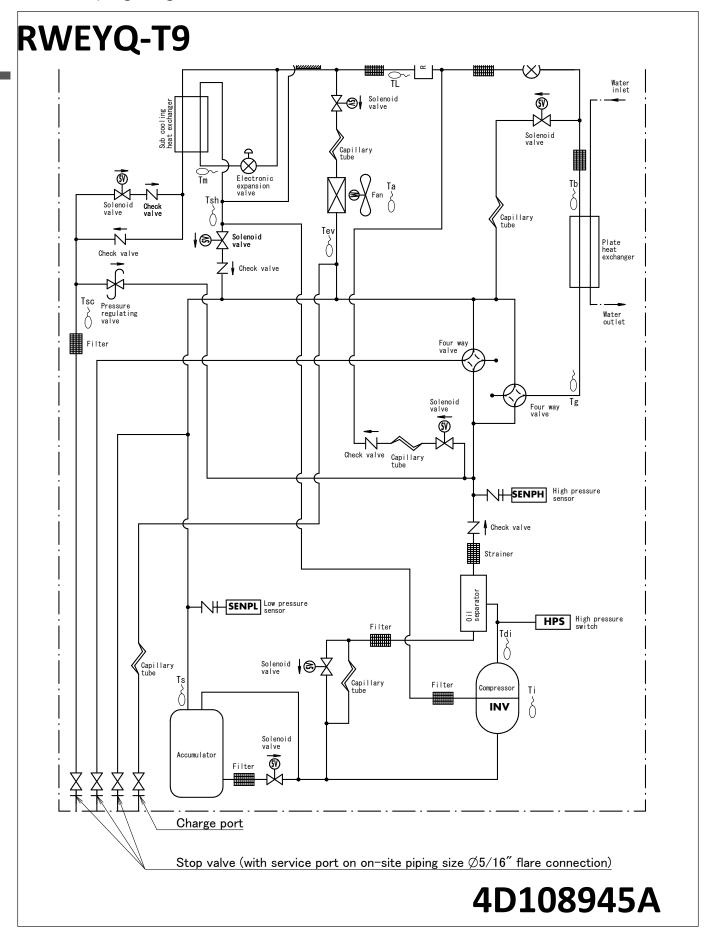
7 - 1 Centre of Gravity





8 Piping diagrams

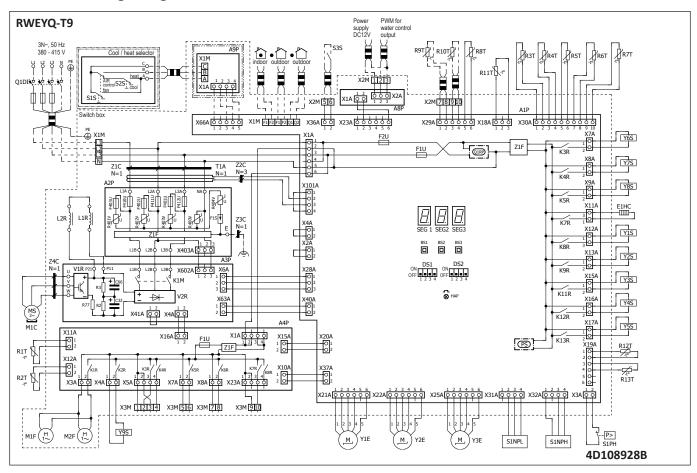
8 - 1 Piping Diagrams





9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase





9 Wiring diagrams

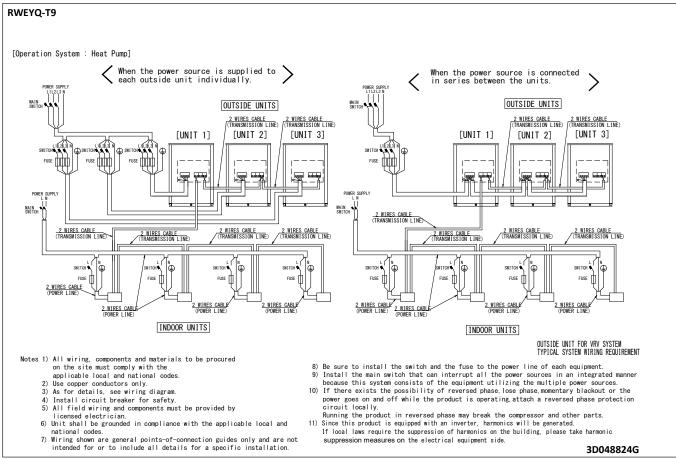
9 - 2 Notes & Legend

RWEYQ-T9 LEGEND NOTES to go through before starting the unit Part n° Description Part n° Description : Main terminal A1P S3S main PCB interlock switch noise filter PCB SEG*(A1P) 7-segment display ____: Earth wiring A3P inverter PCB T1A leakage current detection sensor _____: Wire number 15 A4P SUB PCB V1R (A3P) IGBT power module A8P adapter PCB V2R (A3P) : Wiring depending on model diode module __ _ _ _ : Field wire cool/heat selector PCB connector (remote switching cool/ X66A : Field cable BS* (A1P) push buttons (mode , set, return) heat selector) X*A PCB connector C* (A3P) DS* (A1P) Not mounted in switch box → **/12.2 : Connection ** continues on X*M terminal strip dipswitch page 12 column 2 E1HC X*M (A*P) terminal strip on PCB crankcase heater (1) X*Y Y*E PCB F1S (A2P) surge arrestor connector : Several wiring possibilities electronic expansion valve F1U (A4P) fuse T 3,15 A 250 V 1. Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1 ~ DS2 DIP Y*S solenoïd valve F401U (A2P) fuse T 6,3 A 250 V switches. 2. Do not operate the unit by short-circuiting protection device (S1PH). 3. For connection to indoor-outdoor transmission F1-F2 wiring, outdoor - outdoor transmission F1-F2, refer to Z*C Z*F noise filter (ferrit core) F402U (A2P) fuse T 6.3 A 250 V F403U (A2P) noise filter fuse T 6,3 A 250 V F410U (A2P) fuse T 63 A 600 V * : optional #: field supply POSITION IN SWITCH BOX F411U (A2P) fuse T 63 A 600 V F412U (A2P) fuse T 63 A 600 V F*U (A1P) fuse T 3.15 A 250 V L2R L1R running LED (service monitor-HAP (A1P) M1F M2F green) K1M (A3P) magnetic contactor K*R (A*P) magnetic relay A2P L*R reactor M1C motor (compressor) M*F motor (fan) A8P PS (A1P) power supply Q1DI earth leakage circuit breaker Q1RP (A1P) R* (A3P) phase reversal detect circuit X3M resistor thermistor R*V (A2P) A4P X2M S1NPH high pressure sensor S1NPL low pressure sensor S1PH high pressure switch (disch) air control switch S2S cool / heat switch 4D108928B

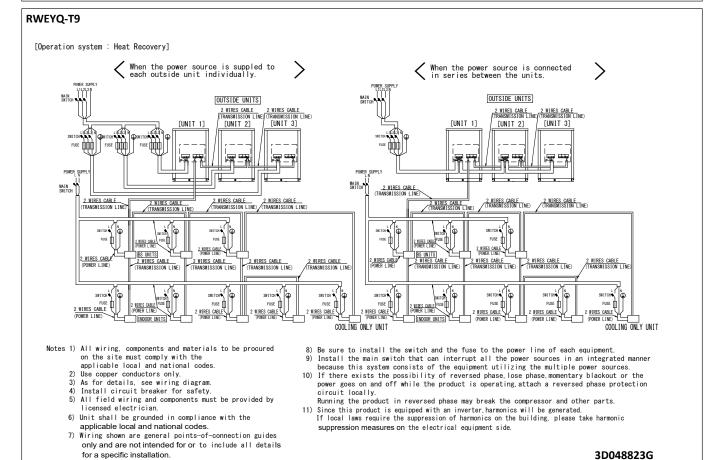


External connection diagrams

10 - 1 External Connection Diagrams



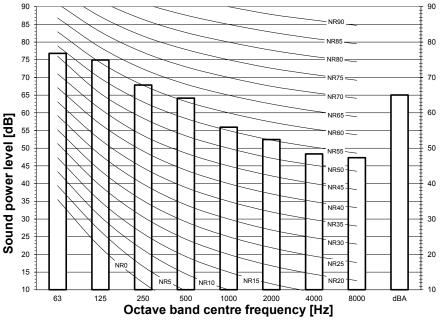
3D048824G





11 - 1 Sound Power Spectrum

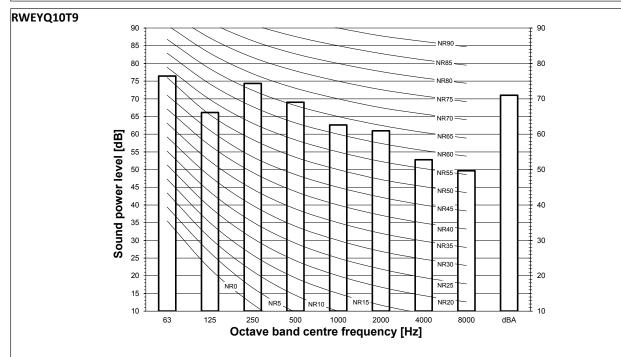




Notes

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

3D108940



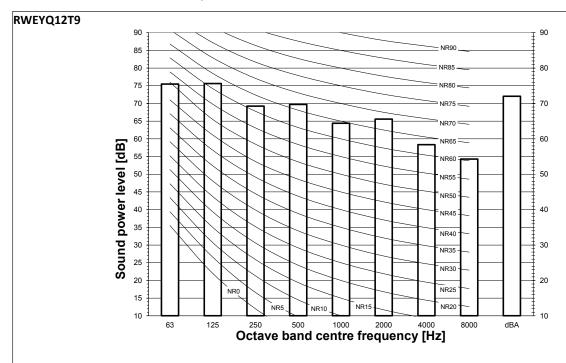
<u>Notes</u>

- -dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6μW/m²·
- Measured according to ISO 3744

3D108941



11 - 1 Sound Power Spectrum

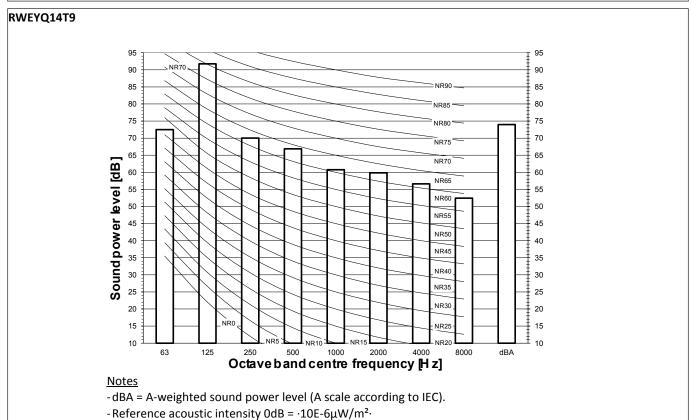


Notes

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

- Measured according to ISO 3744

3D108942

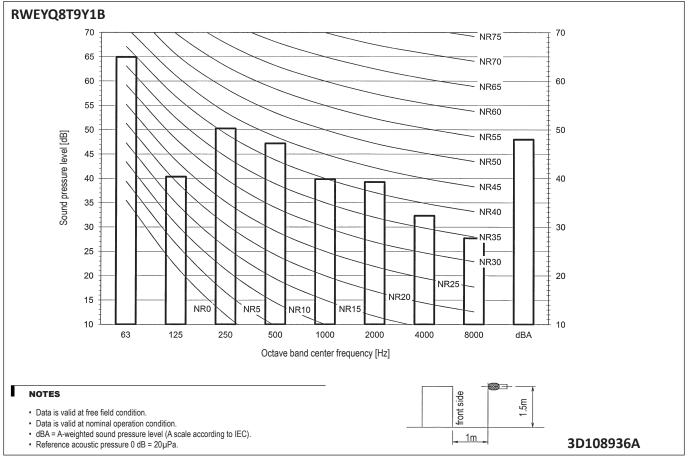


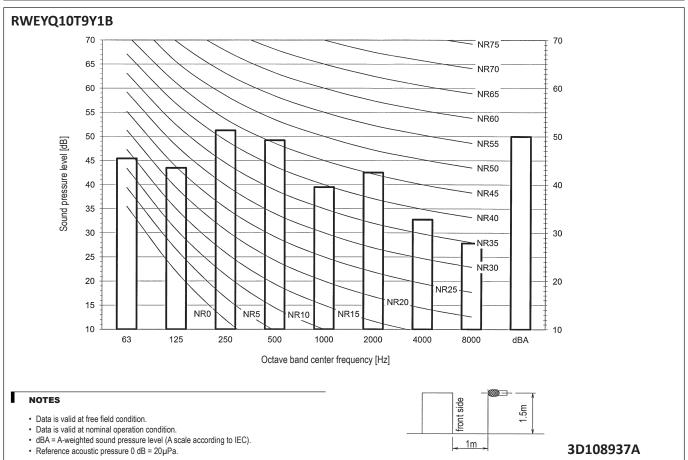


3D108943A



11 - 2 Sound Pressure Spectrum

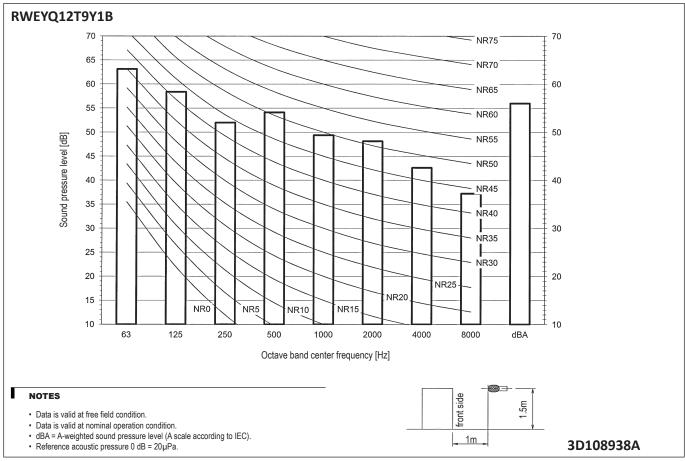


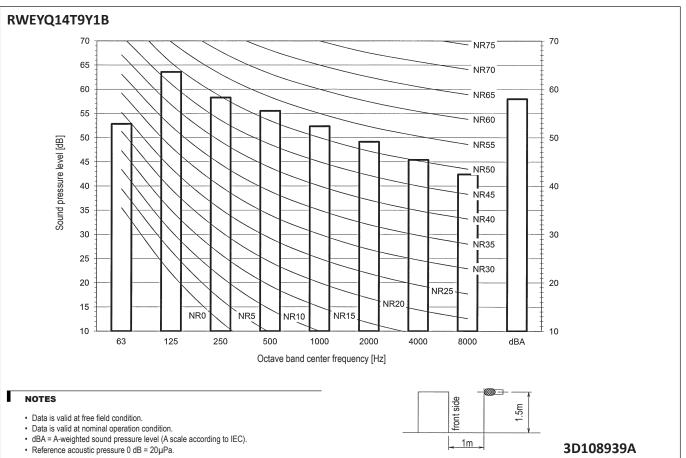


40



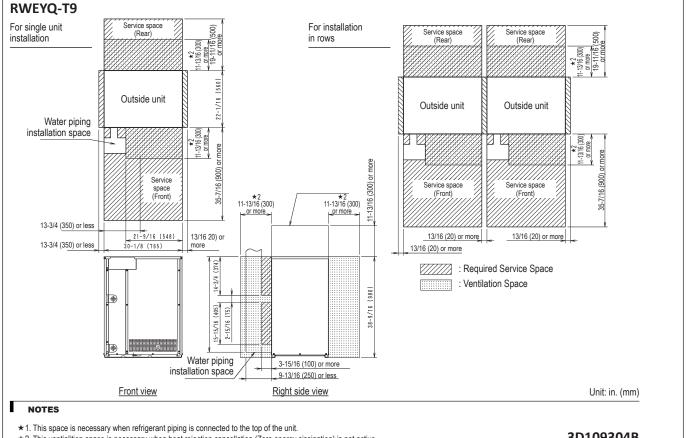
11 - 2 Sound Pressure Spectrum







Installation Method 12 - 1



★2. This ventialition space is necessary when heat rejection cancellation (Zero energy sissipation) is not active.

3D109304B



12 - 2 Refrigerant Pipe Selection

RWEYQ-T9

VRV4 Watercooled Field Piping Restrictions Heat pump Piping restrictions 1/3

		Maximum piping length			Maxim			
		Longest pipe (A+[B,G,E,J])	After first branch (B,G,E,J)	After first branch (for multi- (D)	Indoor+to- outdoor (H1)	Indoor-to-indoor (H2)	Outdoor-to- outdoor (H3)	Total piping length
		Actual / (Equivalent)	Actual	Actual / (Equivalent)	Outdoor above indoor / (indoor above outdoor)			
VRV DX indoor units only		165/(190)m	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	300m
		120/(140)m	40m ⁽¹⁾	10/(13)m	50/(40)m ⁽³⁾	30m	5m	500m
Hydrobox connection		120/(140)m	40m	10/(13)m	50/(40)m	15m	5m	300m
RA connection		100/(120)m	40m ⁽²⁾	=	50/(40)m	15m	=	250m
	Pair	50/(55) _m ⁽⁴⁾	=	=	50/(40)m	=	=	-
AHU connection	Multi	120/(140)m	40m	10/(13)m	50/(40)m	15m	5m	300m
	Mix	120/(140)m	40m	10/(13)m	50/(40)m	15m	5m	300m

Remark

Only available for single model configuration.

- (1) If all conditions below are met, the limitation can be extended up to 90 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 increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.

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 ≤ 40m.
- (2) 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:
 - -> 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) If the equivalent piping length between is > 90m, size up the main liquid and gas piping.
- (6) Multiple air handling units (AHU)(EKEXV + EKEQ kits).
- (7) Mix of AHU units and VRV DX indoor

3D108948



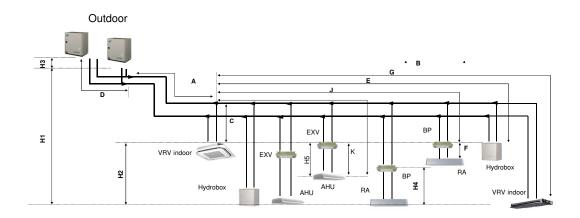
43



Refrigerant Pipe Selection 12 - 2

RWEYQ-T9

VRV4 Watercooled Field Piping Restrictions 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 pi	ping 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·	Pair	-	≦5m	-	5m	
connection	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·

3D108948



12 - 2 Refrigerant Pipe Selection

RWEYQ-T9

VRV4 Watercooled Field Piping Restrictions 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)
	Including FXZQ15 or FXAQ15	50~125%	Max.64	50~125%	-	-	-
	Including FXFQ20 or FXFQ25	50~130%	Max.64	50~130%	-	-	-
VRV DX indoor units only	Only FXDQ, FXSQ and FXAQ20~63	50~150%	Max.64	50~150%	=	=	=
	All other models (single system)	50~150%	Max.64	50~150%			
	All other models (multi system)	50~130%	Max.64	50~130%	-	-	-
VRV DX indoor unit + RA DX	<	80~130%	Max.32 ⁽¹⁾	0~130%	0~130%	-	-
·RA DX· indoor units only		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 Pair + multi		90~110% ⁽³⁾	Max.64 ⁽²⁾	-	-	-	90~110%

Remark

- (1) There is no restriction on the number of connectable BP boxes.
- (2) For connection with AHU

EKEXV kits are also considered indoor units.

- (3) Restrictions regarding the air handling unit capacity
- (4) Pair AHU = system with 1 air handling unit connected to one outdoor unit

Multi AHU = system with multiple air handling units connected to one outdoor unit

About ventilation applications

- $I. \quad {\sf FXMQ_MF} \ units \ are \ considered \ air \ handling \ units, following \ air \ handling \ unit \ limitations.$
 - 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.

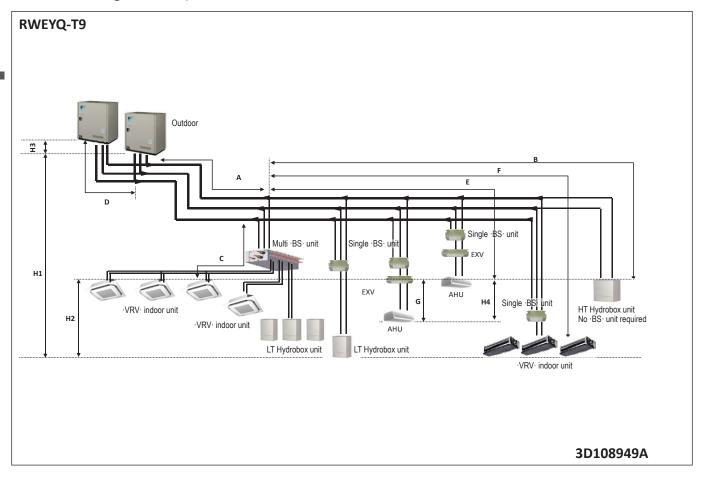
However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units.

3D108948





12 - 2 Refrigerant Pipe Selection





12 - 2 Refrigerant Pipe Selection

RWEYQ-T9

VRV4 Watercooled Field Piping Restrictions Heat recovery Piping restrictions

		То	tal		Al	lowed capacity	1	
		Capacity	Maximum indoor unit quantity	VRV indoor unit	·VRV· indoor unit without ·BS· unit	HT Hydrobox unit	LT Hydrobox unit	Air handling unit (AHU)
					Cooling only			
			(*1)		(*4)			
·VRV· indoor units only	Including FXZQ15 or FXAQ15	50 ~ 125 %	64	50 ~ 125 %	0 ~ 50 %	Not allowed	Not allowed	Not allowed
	Including FXFQ20 or FXFQ25	50 ~ 130 %	64	50 ~ 130 %	0 ~ 50 %	Not allowed	Not allowed	Not allowed
	Only FXDQ, FXSQ and FXAQ20~63	50 ~ 150 %	64	50 ~ 150 %	0 ~ 50 %	Not allowed	Not allowed	Not allowed
	All other models (single system)	50 ~ 150 %	64	50 ~ 150 %	0 ~ 50 %	Not allowed	Not allowed	Not allowed
	All other models (multi system)	50 ~ 130 %	64	50 ~ 130 %	0 ~ 50 %	Not allowed	Not allowed	Not allowed
·VRV· indoor units + LT	Hydrobox	50 ~ 130%	32	50 ~ 130 %	0 ~ 50 %	Not allowed	0 ~ 80%	Not allowed
·VRV· indoor units + H	Hydrobox	50 ~ 200%	32	50 ~ 110 %	Not allowed	0 ~ 100 %	Not allowed	Not allowed
"·VRV· indoor units + HT Hydrobox + LT Hydrobox Where (·VRV· indoor units + LT Hydrobox)"		"50 ~ 200% 50 ~ 130%"	32	50 ~ 110 %	Not allowed	"0 ~ 100 % -"	0 ~ 80%	Not allowed
AHU only Pair + Multi		Not allowed	Not allowed	Not allowed	Not allowed	Not allowed	Not allowed	Not allowed
·VRV· indoor unit + ·AHL	Js·	50 ~ 110 %	64	50 ~ 110 %	0 ~ 50 %	Not allowed		0 ~ 60 %

NOTES

- 1. Excluding $\cdot BS \cdot$ units and including $\cdot EXV \cdot$ kits.
- 2. 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
- 3. Other combinations than mentioned in this combination table are prohibited.
- 4. Cooling-only ·VRV· indoor units cannot be combined with HT Hydrobox units.
- 5. Restrictions regarding the air handling unit capacity

Amount of units connectable to a ·BS· unit

	BS1Q10	BS1Q16	BS1Q25	Multi ·BS· per branch	Multi ·BS· when 2 branches are combined
	(*6)	(*6)	(*6)	(*6)	(*5) (*6)
·VRV· indoor unit	Maximum ·6· units	Maximum ·8· units	Maximum ·8· units	Maximum ⋅5⋅ units	Maximum ⋅5⋅ units
Air handling unit (AHU)	Maximum ·100· class	Maximum ·160· class	Maximum ·250· class	Maximum ·140· class	Maximum ·250· class
	Maximum ·100· class	Maximum ·160· class	Maximum ·250· class	Maximum ·140· class	Maximum ⋅250⋅ class
LT Hydrobox unit	= 1 x HXY080	= Maximum ·2 x HXY080·	= Maximum ·3 x HXY080·	= Maximum ·1 x HXY080·	= Maximum ·3 x HXY080·
		Or maximum ·1 x HXY125·	Or maximum ·2 x HXY125·	Or maximum ·1 x HXY125·	Or maximum ·2 x HXY125·
			Or ·HXY080 + HXY125·		Or ·HXY080 + HXY125·

NOTES

- 1. When combining $\cdot 2 \cdot$ branches, the maximum piping length between the $\cdot BS \cdot$ unit and the indoor unit is $\leq 20m$. If the length of this piping is > 20m, increase the size of the liquid pipe.
- 2. When using Hydrobox units, do not combine them with other types of units.

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12 - 2 Refrigerant Pipe Selection

RWEYQ-T9

VRV4 Watercooled Field Piping Restrictions Heat recovery Piping restrictions

	N	Maximum piping lengtl	h	Max	imum height differen	ce	Total piping length
	Longest pipe from the outdoor unit or the last multi- outdoor piping branch	Longest pipe after first branch	Longest pipe from the outdoor unit to the last multi- outdoor piping branch	Indoor-to-outdoor Outdoor unit higher than indoor unit / Indoor unit higher than outdoor unit	Indoor-to-indoor	Outdoor-to-outdoor	Piping length
	Actual / Equivalent	Actual	Actual / Equivalent				
	Maximum: · (A+B, A+C, A+E, A+F)·	Maximum: ·(B,C,E,F)·	Maximum: ·(D)·	Maximum: ·(H1)·	Maximum: ·(H2)·	Maximum: ·(H3)·	
·VRV· indoor units only	165/190 m (*3)	40 m (*1)	10/13 m	50/40 m (*2)	30m	5 m	300 m
	120/140m (*3)	40 m (*1)		50/40 m (*2)	30m		500 m
Hydrobox unit	120/140m (*3)	40 m		50/40 m	15m		300 m
AHU (*4)	120/140m (*3)	40 m		50/40 m	15m		300 m

	Maximum piping length	Maximum height difference
	EXV> AHU: G	EXV> AHU: H4
AHU (*4)	5 m	5 m

NOTES

- 1. If all conditions below are met, the limitation can be extended up to 90 m
 - 1.1. In case of ·BS1Q· units, the piping length between all indoor units and the nearest branch kit is ≤ ·40·m.
 - 1.2. In case of multi BS units, the piping length between all indoor units and the multi BS unit is $\leq .40 \, \text{m}$.
 - 1.3. It is required to size up the liquid piping between the first branch kit and the last.
 - In contrast to multi BS units, ·BS1Q· units are not considered branch kits.
 - If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.
 - 1.4. When the piping size is increased, the piping length has to be counted as double.
 - The total piping length has to be within limitations.
 - 1.5. The piping length difference between the nearest indoor unit to the outdoor unit and the farthest indoor unit to the outdoor unit is ≤ ·40·m.
- 2. If all conditions below are met, the limitation can be extended up to 90 m
 - 2.1. If the outdoor units are positioned higher than the indoor units:
 - 2.1.1. Minimum connection ratio: .80%
 - 2.1.2. Size up the liquid piping
 - 2.1.3. Outdoor unit setting
 - For more information, refer to the service manual.
 - 2.2. If the outdoor units are positioned lower than the indoor units:
 - 2.2.1. No technical cooling
 - 2.2.2. Size up the liquid piping
 - 2.2.3. Outdoor unit setting
 - 2.2.4. Minimum connection ratio
 - -40~60m: Minimum connection ratio: ·80%·
 - -60~65m: Minimum connection ratio: .90%.
 - -65~80m: Minimum connection ratio: ·100%·
 - -80~90m: Minimum connection ratio: ·110%·
- 3. If the equivalent piping is $> .90 \cdot m$, size up the main liquid piping.
- 4. Mix of ·DX· units and ·AHU's·
- 5. If there is no branch kit present in the system, the longest pipe after the multi \cdot BS \cdot unit has to be $\leq \cdot 40 \cdot$ m.

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Operation range

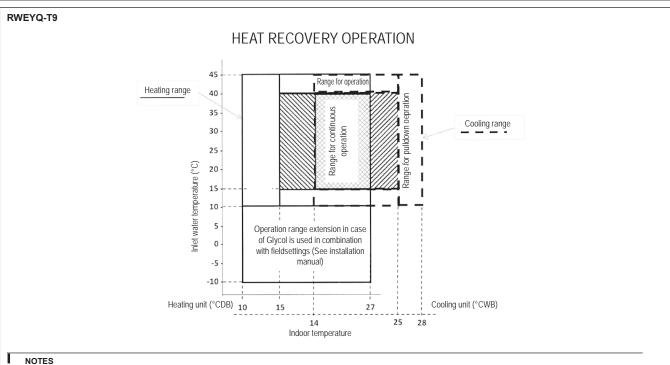
13 - 1 Operation Range

RWEYQ-T9 **HEAT PUMP OPERATION** Cooling Heating 45 40 40 for continuous warming up operation 35 35 30 30 Inlet water temperature (°C) Inlet water temperature (°C) Range f 25 25 20 20 ō 15 Range for operation Range for operation 10 10 5 5 Operation range extension in case of Glycol is used in combination 0 0 with fieldsettings (See installation manual) -5 -5 28 10 Indoor temperature (°CWB) Indoor temperature (°CDB)

Г NOTES

- 1. Cooling operation range is kept in any case
- This figure shows the range which can be operated when the water flow is between 50~150 l/min.
- Design within the following condition range: water temperature: 20 35 °C water volume: 60 l/min or more
- 4. When cooling load is small, thermostat-off may be carried out for freeze-up protection
- 5. Hold ambient temperature at 0~40°C and humidity at 80%RH or less.

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- 1. Cooling operation range is kept in any case
- This figure shows the range which can be operated when the water flow is between 50~150 l/min.
- 3. Design within the following condition range: water temperature: 20 \sim 35 $^{\circ}\text{C}$
- water volume: 60 l/min or more When cooling load is small, thermostat-off may be carried out for freeze-up protection
 Hold ambient temperature at 0-40°C and humidity at 80%RH or less.

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14 Appropriate Indoors

14 - 1 Appropriate Indoors

RWEYQ-T9

Recommended indoor units for ·RWEYQ*T*· outdoor units

·· HP	8	10	12	14	16
	4xFXMQ50	4xFXMQ63	6xFXMQ50	1xFXMQ50	4XFXMQ63

For multi outdoor units ·>16HP·, the recommended amount of indoor units is the sum of the indoor units defined for a single outdoor unit.

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

Appropriate indoor units for ·RWEYQ*T*· outdoor units

Covered by ·ENER LOT21·

FXFQ20-25-32-40-50-63-80-100-125 FXZQ15-20-25-32-40-50 FXCQ20-25-32-40-50-63-80-125 FXKQ25-32-40-63 FXDQ15-20-25-32-40-50-63 FXSQ15-20-25-32-40-50-63-80-100-125-140 FXMQ50-63-80-100-125-200-250 FXAQ15-20-25-32-40-50-63 FXHQ32-63-100 FXUQ71-100 FXNQ20-25-32-40-50-63 FXLQ20-25-32-40-50-63

Covered by ·ENER LOT10·

FTXJ25-35-50 FTXA20-25-35-42-50 FTXM20R-25R-35R-42R-50R-60R-71R FLXS25-35-50-60 FVXM25F-35F-50F FVXG25-35-50 FVXM25A-35A-50A CVXM20A

Outside the scope of ·ENER LOT21·

EKEXV50-63-80-100-125-140-200-250-400-500 + EKEQM / EKEQF HXY080-125 HXHD125-200 VKM50-80-100 CYVS100-150-200-250 CYVM100-150-200-250 CYVL100-150-200-250

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