DAIKIN

Air Conditioning
Technical Data
REMQ-T, REYQ-T

> REMQ5T7Y1B
> REYQ8T7Y1B
> REYQ10T7Y1B
> REYQ12T7Y1B
> REYQ14T7Y1B
> REYQ16T7Y1B
> REYQ18T7Y1B
> REYQ20T7Y1B

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REMQ-T, REYQ-T

1 Features

1 - 1 REMQ-T

- Outdoor unit module for VRV IV heat recovery to create systems from 10 up to 13HP
- Free combination of outdoor units to meet installation space or efficiency requirements

Inverter

1 Features
1 - 2 REYQ-T

- Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8 !
- 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
- "Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, 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
- Continuous comfort: Unique continuous heating technology makes VRV IV the best alternative to traditional heating systems
- VRV configurator software for the fastest and most accurate commissioning, configuration and customisation
- Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.
- 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
- Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- 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 our i-Net service: 24/7 monitoring for maximum efficiency, extended lifetime, immediate service support thanks to failure prediction and a clear understanding of operability and usage

Inverter

2 Specifications

2-1 Technical Specifications				REMQ5T	REYQ8T	REYQ10T	REYQ12T	REYQ14T	REYQ16T	REYQ18T	REYQ20T
Recommended combinations				-	4 x FXMQ50P 7VEB	4 x FXMQ63P 7VEB	6 x FXMQ50P 7VEB	1 x FXMQ50P 7VEB + 5 x FXMQ63P 7VEB	4 x FXMQ63P 7VEB + 2 x FXMQ80P 7VEB	3 x FXMQ50P 7VEB + 5 x FXMQ63P 7VEB	2 x FXMQ50P 7VEB + 6 x FXMQ63P 7VEB
Cooling capacity	Prated,c		kW	14.0 (1)	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	45.0 (1)	50.4 (1)	52.0 (1)
Heating capacity	Prated,h		kW	-	13.7 (2)	16.0 (2)	18.4 (2)	20.6 (2)	23.2 (2)	27.9 (2)	31.0 (2)
	Max.	6°CWB	kW	16.0 (3)	25.0 (3)	31.5 (3)	37.5 (3)	45.0 (3)	50.0 (3)	56.5 (3)	63.0 (3)
ESEER - Automatic				-	7.41	7.37	6.84	7.05	6.63	6.26	5.68
ESEER - Standard				-	6.25	5.78	5.36	5.45	5.14	4.84	4.39
SEER				-	5.4	5.6	5.5	5.7	5.5		5.3
SCOP				-	3.7	3.9	4.0	3.5		3.8	
ηs,c			%	-	212.4	222.0	216.9	226.6	216.8	216.2	210.3
ηs,h			%	-	146.8	152.3	155.5	138.4	138.9	149.1	148.1
Space cooling	A Condition (35°C - 27/19)	EERd		-	2.5	2.7	2.6		2.1		1.9
		Pdc	kW	-	22.4	28.0	33.5	40.0	45.0	50.4	52.0
	B Condition (30°C - 27/19)	EERd		-	4.1	4.4	4.2	4.3	4.0	3.7	3.6
		Pdc	kW	-	16.5	20.6	24.7	29.5	33.2	37.1	38.3
	C Condition (25°C - 27/19)	EERd		-	6.4	6.7	6.6	7.0	6.8	6.7	6.6
		Pdc	kW	-	10.6	13.3	15.9	18.9	21.3	23.9	24.6
	D Condition (20°C - 27/19)	EERd		-	8.7	8.9	8.7	9.5	10.0	11.8	11.7
		Pdc	kW	-	4.8	6.9	7.1	8.4	9.5	10.6	10.9
Space heating (Average climate)	TBivalent	COPd (declared COP)		-	2.2			1.9	1.8	2.1	2.0
		Pdh (declared heating cap)	kW	-	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tbiv (bivalent temperature)	°C	-	-10						
	TOL	COPd (declared COP)		-	2.2			1.9	1.8	2.1	2.0
		Pdh (declared heating cap)	kW	-	13.7	16.0	18.4	20.6	23.2	27.9	31.0
		Tol (temperature operating limit)	°C	-	-10						
	A Condition (-7°C)	COPd (declared COP)		-	2.4			2.2		2.3	
		Pdh (declared heating cap)	kW	-	12.1	14.2	16.3	18.2	20.5	24.7	27.4
	B Condition (2°C)	COPd (declared COP)		-	3.2	3.4	3.3			3.4	
		Pdh (declared heating cap)	kW	-	7.4	8.6	9.9	11.1	12.5	15.0	16.7
	C Condition (7°C)	COPd (declared COP)		-	6.6	6.9	7.2	5.7		5.8	
		Pdh (declared heating cap)	kW	-	5.8	6.6	6.4	7.1	8.0	9.7	10.7
	D Condition (12°C)	COPd (declared COP)		-	8.6	7.9	8.2	4.1	4.2	7.1	
		Pdh (declared heating cap)	kW	-	6.7	6.2	6.3	4.1	4.2	5.5	
Capacity range			HP	5	8	10	12	14	16	18	20
Maximum number of connectable indoor units				64 (4)							
Indoor index connection	Min.			62.5	100.0	125.0	150.0	175.0	200.0	225.0	250.0
	Max.			162.5	260.0	325.0	390.0	455.0	520.0	585.0	650.0
Dimensions	Unit	Height	mm	1,685							
		Width	mm	930				1,240			
		Depth	mm	765							
	Packed unit	Height	mm	1,820							
		Width	mm	995				1,305			
		Depth	mm	860							
Weight	Unit		kg	210		218		304	305	337	
	Packed unit		kg	226		234		320	321	353	
Packing	Material			Carton							
	Weight		kg	2.0				3.0			

2 Specifications

2-1 Technical Specifications					REMQ5T	REYQ8T	REYQ10T	REYQ12T	REYQ14T	REYQ16T	REYQ18T	REYQ20T
Packing 2	Material				Wood							
	Weight			kg	17.0				18.5			
Packing 3	Material				Plastic							
	Weight			kg	0.5							
Casing	Colour				Daikin White							
	Material				Painted galvanized steel plate							
Heat exchanger	Type				Cross fin coil							
	Indoor side				Air							
	Outdoor side				air	Air	air	Air		air		
	Air flow rate	Cooling	Rated	m³/h	9,720 (2)		10,500 (2)	11,100 (2)	13,380 (2)	15,600 (2)	15,060 (2)	15,660 (2)
		Heating	Rated	m³/h	9,720 (2)		10,500 (2)	11,100 (2)	13,380 (2)	15,600 (2)	15,060 (2)	15,660 (2)
Compressor	Quantity				1				2			
	Type				Hermetically sealed scroll compressor							
	Crankcase heater			W	33							
Fan	Quantity				1				2			
	External static pressure	Max.		Pa	78							
Fan motor	Quantity				1				2			
	Type				DC motor							
	Output			W	750							
Sound power level	Cooling	Nom.		dBA	77.0 (5)	78.0 (5)	79.0 (5)	81.0 (5)		86.0 (5)		88.0 (5)
Sound pressure level	Cooling	Nom.		dBA	56.0 (6)	58.0 (6)		61.0 (6)		64.0 (6)	65.0 (6)	66.0 (6)
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0							
	Heating	Min.~Max.		°CWB	-20.0~15.5							
Refrigerant	Type				R-410A							
	GWP				2,087.5							
	Charge			TCO_2eq	20.2		20.5	20.7	24.6			
				kg	9.7		9.8	9.9	11.8			
Refrigerant oil	Type				Synthetic (ether) oil FVC68D							
Piping connections	Liquid	Type			Braze connection							
		OD		mm	9,52			12,7			15,9	
	Gas	Type			Braze connection							
		OD		mm	19.1		22.2	28.6				
	HP/LP gas	Type			Brazing connections							
		OD		mm	15.9 (2)		19.1 (2)		22.2 (2)			28.6 (2)
	Total piping length	System	Actual	m	-	1,000 (7)						
Defrost method					Reversed cycle							
Safety devices	Item	01			High pressure switch							
		02			Fan driver overload protector							
		03			Inverter overload protector							
		04			PC board fuse							
PED	Category				Category II							
	Most critical part	Name			Liquid receiver							
		Ps*V		Bar*l	564				672		824	
Cooling	Cdc (Degradation cooling)				-	0.25						
Heating	Cdh (Degradation heating)				-	0.25						
Power consumption in other than active mode	Crankcase heater	Cooling	PCK	kW	-		0.000	-		0.000		
		Heating	PCK	kW	-		0.050	-		0.077		
	Off mode	Cooling	POFF	kW	-	0.036	0.046		0.067			
		Heating	POFF	kW	-	0.048	0.050		0.077			
	Standby mode	Cooling	PSB	kW	-	0.036	0.046		0.067			
		Heating	PSB	kW	-	0.048	0.050		0.077			
	Thermostat-off mode	Cooling	PTO	kW	-	0.013			0.027			
		Heating	PTO	kW	-	0.065	0.067		0.112			
Indication if the heater is equipped with a supplementary heater					-	no						
Supplementary heater	Back-up capacity	Heating	elbu	kW	-	0.0						

2 Specifications

Standard Accessories : Installation and operation manual; Quantity : 1;
Standard Accessories : Connection pipes; Quantity : 1;

2-2 Electrical Specifications				REMQ5T	REYQ8T	REYQ10T	REYQ12T	REYQ14T	REYQ16T	REYQ18T	REYQ20T
Power supply	Name			Y1							
	Phase			3N~							
	Frequency		Hz	50							
	Voltage		V	380-415							
Voltage range	Min.		%	-10							
	Max.		%	10							
Current	Nominal running current (RLA) - 50Hz	Cooling	A	4.1 (8)	7.7 (8)	10.5 (8)	13.8 (8)	15.6 (8)	18.5 (8)	22.0 (8)	28.5 (8)
Current - 50Hz	Starting current (MSC) - remark			(9)							
	Minimum circuit amps (MCA)		A	16.1 (10)		22.0 (10)	24.0 (10)	27.0 (10)	31.0 (10)	35.0 (10)	39.0 (10)
	Maximum fuse amps (MFA)		A	20 (11)		25 (11)	32 (11)		40 (11)		50 (11)
	Total overcurrent amps (TOCA)		A	17.3 (12)		24.6 (12)		35.4 (12)		42.7 (12)	
	Full load amps (FLA)	Total	A	1.2 (13)		1.3 (13)	1.5 (13)	1.8 (13)	2.6 (13)		
Wiring connections - 50Hz	For power supply	Quantity		5G							
	For connection with indoor	Quantity		2							
		Remark		F1,F2							
Power supply intake				Both indoor and outdoor unit							

Notes

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

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

(3) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m

(4) Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%)

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

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

(7) Refer to refrigerant pipe selection or installation manual

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

(9) MSC means the maximum current during start up of the compressor. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.

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

(13) FLA means the nominal running current of the fan

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

Maximum allowable voltage range variation between phases is 2%.

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

The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Recovery operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation)

The STANDARD ESEER value corresponds with normal VRV4 Heat Recovery operation, not taking into account advanced energy saving operation functionality

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 phase

Ssc: Short-circuit power

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

2 Specifications

2-3 Technical Specifications					REYQ10T	REYQ13T	REYQ16T	REYQ18T	REYQ20T	REYQ22T	REYQ24T	REYQ26T
System	Outdoor unit module 1				REMQ5T		REYQ8T			REYQ10T	REYQ8T	REYQ12T
	Outdoor unit module 2				REMQ5T	REYQ8T		REYQ10T	REYQ12T		REYQ16T	REYQ14T
Recommended combinations					4 x FXMQ63P 7VEB	3 x FXMQ50P 7VEB + 5 x FXMQ63P 7VEB	4 x FXMQ63P 7VEB + 2 x FXMQ80P 7VEB	4 x FXMQ50P 7VEB + 4 x FXMQ63P 7VEB	10 x FXMQ50P 7VEB	6 x FXMQ50P 7VEB + 4 x FXMQ63P 7VEB	4 x FXMQ50P 7VEB + 4 x FXMQ63P 7VEB + 2 x FXMQ80P 7VEB	7 x FXMQ50P 7VEB + 5 x FXMQ63P 7VEB
Continuous heating					Yes							
Cooling capacity	Prated,c			kW	28.0 (1)	36.4 (1)	44.8 (1)	50.4 (1)	55.9 (1)	61.5 (1)	67.4 (1)	73.5 (1)
Heating capacity	Prated,h			kW	16.0 (2)	21.7 (2)	23.2 (2)	27.9 (2)	31.0 (2)	34.4 (2)	36.9 (2)	37.1 (2)
	Max.	6°CWB		kW	32.0 (3)	41.0 (3)	50.0 (3)	56.5 (3)	62.5 (3)	69.0 (3)	75.0 (3)	82.5 (3)
ESEER - Automatic					7.77	7.54	7.41	7.38	7.06	7.07	6.87	6.95
SEER					5.7	5.8	5.7	5.6	5.5	5.4	5.5	5.6
SCOP					4.0	3.8			3.9	4.0	3.8	
ηs,c				%	224.2	229.3	223.9	222.9	215.0	213.5	215.3	222.0
ηs,h				%	156.4	148.9	147.4	150.8	152.3	155.7	147.5	151.0
Space cooling	A Condition (35°C - 27/19)	EERd			3.2	2.8	2.4	2.6	2.5	2.6	2.2	2.6
		Pdc		kW	28.0	36.4	44.5	50.4	55.9	61.5	67.4	73.5
	B Condition (30°C - 27/19)	EERd			4.3	4.2	4.0	4.2	4.1	4.3	4.0	4.2
		Pdc		kW	20.6	26.8	33.0	37.1	41.2	45.3	49.7	54.2
	C Condition (25°C - 27/19)	EERd			6.2	6.1	6.8		6.5	6.6	6.7	6.8
		Pdc		kW	13.3	17.2	21.2	23.9	26.5	29.1	31.9	34.8
	D Condition (20°C - 27/19)	EERd			10.2	13.7	11.0	9.3	8.7	7.6	9.5	9.1
		Pdc		kW	5.9	7.7	9.5	11.7	11.9	13.0	14.3	15.5
Space heating (Average climate)	TBivalent	COPd (declared COP)			2.2		2.3		2.2		1.9	2.1
		Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	37.1
		Tbiv (bivalent temperature)		°C	-10							
	TOL	COPd (declared COP)			2.2		2.3		2.2		1.9	2.1
		Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	37.1
		Tol (temperature operating limit)		°C	-10							
	A Condition (-7°C)	COPd (declared COP)			2.4		2.5		2.4		2.3	
		Pdh (declared heating cap)		kW	14.0	19.1	20.5	24.7	27.4	30.4	32.6	32.8
	B Condition (2°C)	COPd (declared COP)			3.5	3.1			3.3			
		Pdh (declared heating cap)		kW	8.6	11.6	12.5	15.0	16.7	18.5	19.9	20.0
	C Condition (7°C)	COPd (declared COP)			6.7		6.5	6.7	6.9	7.0	6.2	6.4
		Pdh (declared heating cap)		kW	5.8	7.5	8.0	12.4	12.1	12.9	12.8	
	D Condition (12°C)	COPd (declared COP)			8.7	8.6	8.4	8.6	8.2		8.6	8.2
		Pdh (declared heating cap)		kW	6.8		6.7		6.3		6.7	6.3
Capacity range				HP	10	13	16	18	20	22	24	26
Maximum number of connectable indoor units					64 (4)							
Indoor index connection	Min.				125.0	163.0	200.0	225.0	250.0	275.0	300.0	325.0
	Max.				325.0	423.0	520.0	585.0	650.0	715.0	780.0	845.0
Heat exchanger	Indoor side				Air							
	Outdoor side				Air	air	Air			air		
	Air flow rate	Cooling	Rated	m³/h	19,440 (2)			20,220 (2)	20,820 (2)	21,600 (2)	25,320 (2)	24,480 (2)
		Heating	Rated	m³/h	19,440 (2)			20,220 (2)	20,820 (2)	21,600 (2)	25,320 (2)	24,480 (2)
Sound power level	Cooling	Nom.		dBA	80.0 (5)	80.5 (5)	81.0 (5)	81.5 (5)	82.8 (5)	83.1 (5)	86.6 (5)	84.0 (5)
Sound pressure level	Cooling	Nom.		dBA	59.0 (6)	60.1 (6)	61.0 (6)		62.8 (6)		65.0 (6)	64.0 (6)

2 Specifications

2-3 Technical Specifications					REYQ10T	REYQ13T	REYQ16T	REYQ18T	REYQ20T	REYQ22T	REYQ24T	REYQ26T
Refrigerant	Type				R-410A							
	GWP				2,087.5							
Refrigerant oil	Type				Synthetic (ether) oil FVC68D							
Piping connections	Liquid	Type			Braze connection							
		OD		mm	9,52	12,7		15,9				19,1
	Gas	Type			Braze connection							
		OD		mm	22.2	28.6					34.9	
	HP/LP gas	Type			Brazing connections							
		OD		mm	19.1 (2)		22.2 (2)		28.6 (2)			
	Total piping length	System	Actual	m	500 (7)					1,000 (7)		
Defrost method					Reversed cycle							
PED	Category				Category II							
Cooling	Cdc (Degradation cooling)				0.25							
Heating	Cdh (Degradation heating)				0.25							
Power consumption in other than active mode	Crankcase heater	Cooling	PCK	kW	-	0.000		-		0.000		
		Heating	PCK	kW	-	0.096		-		0.100	0.125	0.127
	Off mode	Cooling	POFF	kW	0.072			0.082		0.092	0.103	0.113
		Heating	POFF	kW	0.096			0.098		0.100	0.125	0.127
	Standby mode	Cooling	PSB	kW	0.072			0.082		0.092	0.103	0.113
		Heating	PSB	kW	0.096			0.098		0.100	0.125	0.127
	Thermostat-off mode	Cooling	PTO	kW	0.026						0.040	
		Heating	PTO	kW	0.130			0.132		0.134	0.177	0.179
Indication if the heater is equipped with a supplementary heater					no							
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0							

Standard Accessories : Installation and operation manual; Quantity : 1;

Standard Accessories : Connection pipes; Quantity : 1;

2-4 Technical Specifications				REYQ28T	REYQ30T	REYQ32T	REYQ34T	REYQ36T	REYQ38T	REYQ40T	REYQ42T
System	Outdoor unit module 1			REYQ12T		REYQ16T			REYQ8T	REYQ10T	
	Outdoor unit module 2			REYQ16T	REYQ18T	REYQ16T	REYQ18T	REYQ20T	REYQ12T		REYQ16T
	Outdoor unit module 3			-					REYQ18T		REYQ16T
Recommended combinations				6 x FXMQ50P 7VEB + 4 x FXMQ63P 7VEB + 2 x FXMQ80P 7VEB	9 x FXMQ50P 7VEB + 5 x FXMQ63P 7VEB	8 x FXMQ63P 7VEB + 4 x FXMQ80P 7VEB	3 x FXMQ50P 7VEB + 9 x FXMQ63P 7VEB + 2 x FXMQ80P 7VEB	2 x FXMQ50P 7VEB + 10 x FXMQ63P 7VEB + 2 x FXMQ80P 7VEB	13 x FXMQ50P 7VEB + 5 x FXMQ63P 7VEB	9 x FXMQ50P 7VEB + 9 x FXMQ63P 7VEB	12 x FXMQ63P 7VEB + 4 x FXMQ80P 7VEB
Continuous heating				Yes							
Cooling capacity	Prated,c		kW	78.5 (1)	83.9 (1)	90.0 (1)	95.4 (1)	97.0 (1)	106.3 (1)	111.9 (1)	118.0 (1)
Heating capacity	Prated,h		kW	39.7 (2)	44.4 (2)	46.4 (2)	51.1 (2)	54.2 (2)	58.1 (2)	58.9 (2)	60.9 (2)
	Max.	6°CWB	kW	87.5 (3)	94.0 (3)	100.0 (3)	106.5 (3)	113.0 (3)	119.0 (3)	125.5 (3)	131.5 (3)
ESEER - Automatic				6.72	6.48	6.63	6.43	6.06	6.66	6.68	6.79
SEER				5.5				5.4	5.5		
SCOP				3.8	3.9	3.5	3.7		3.9		3.7
ηs,c			%	216.8	216.2	216.8	216.4	213.2	215.3	217.6	
ηs,h			%	150.9	152.9	138.9	146.8	146.1	151.3	153.0	145.7
Space cooling	A Condition (35°C - 27/19)	EERd		2.3	2.2	2.1		2.0	2.3		
		Pdc	kW	78.5	83.9	90.0	95.4	97.0	106.3	111.9	118.0
	B Condition (30°C - 27/19)	EERd		4.0	3.9	4.0	3.8		3.9	4.0	4.1
		Pdc	kW	57.8	61.8	66.3	70.3	71.5	78.3	82.4	86.9
	C Condition (25°C - 27/19)	EERd		6.7		6.8		6.7	6.6	6.7	6.8
		Pdc	kW	37.2	39.7	42.6	45.2	46.0	50.4	53.0	55.9
	D Condition (20°C - 27/19)	EERd		9.4	10.3	10.0	10.9		9.9	9.8	9.5
		Pdc	kW	16.6	17.7	18.9	20.1	20.4	22.5	23.6	24.8

2 Specifications

2-4 Technical Specifications						REYQ28T	REYQ30T	REYQ32T	REYQ34T	REYQ36T	REYQ38T	REYQ40T	REYQ42T
Space heating (Average climate)	TBivalent	COPd (declared COP)				2.0	2.2	1.8	1.9		2.2		1.9
		Pdh (declared heating cap)			kW	39.7	44.4	46.4	51.1	54.2	58.1	58.9	60.9
		Tbiv (bivalent temperature)			°C	-10							
	TOL	COPd (declared COP)				2.0	2.2	1.8	1.9		2.2		1.9
		Pdh (declared heating cap)			kW	39.7	44.4	46.4	51.1	54.2	58.1	58.9	60.9
		Tol (temperature operating limit)			°C	-10							
	A Condition (-7°C)	COPd (declared COP)				2.3	2.4	2.2	2.3	2.2	2.4		2.3
		Pdh (declared heating cap)			kW	35.1	39.3	41.0	45.2	47.9	51.4	52.1	53.8
	B Condition (2°C)	COPd (declared COP)				3.3	3.4	3.3	3.4		3.3	3.4	3.3
		Pdh (declared heating cap)			kW	21.4	23.9	25.0	27.5	29.2	31.3	31.7	32.8
	C Condition (7°C)	COPd (declared COP)				6.4	6.3	5.7	5.8		6.3	6.4	6.1
		Pdh (declared heating cap)			kW	13.7	15.3	16.0	17.7	18.8	20.1	20.4	21.1
	D Condition (12°C)	COPd (declared COP)				8.2	7.9	4.2	6.8	6.7	7.8	7.7	5.8
		Pdh (declared heating cap)			kW	6.3	6.8	8.4	7.9	8.3	12.2	11.7	10.4
Capacity range					HP	28	30	32	34	36	38	40	42
Maximum number of connectable indoor units						64 (4)							
Indoor index connection	Min.					350.0	375.0	400.0	425.0	450.0	475.0	500.0	525.0
	Max.					910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0	1,300.0	1,365.0
Heat exchanger	Indoor side					Air							
	Outdoor side					air							
	Air flow rate	Cooling	Rated		m³/h	26,700 (2)	26,160 (2)	31,200 (2)	30,660 (2)	31,260 (2)	35,880 (2)	36,660 (2)	41,700 (2)
		Heating	Rated		m³/h	26,700 (2)	26,160 (2)	31,200 (2)	30,660 (2)	31,260 (2)	35,880 (2)	36,660 (2)	41,700 (2)
Sound power level	Cooling	Nom.			dBA	87.2 (5)		89.0 (5)		90.1 (5)	87.7 (5)	87.8 (5)	89.4 (5)
Sound pressure level	Cooling	Nom.			dBA	65.8 (6)	66.5 (6)	67.0 (6)	67.5 (6)	68.1 (6)	67.0 (6)		67.5 (6)
Refrigerant	Type					R-410A							
	GWP					2,087.5							
Refrigerant oil	Type					Synthetic (ether) oil FVC68D							
Piping connections	Liquid	Type				Braze connection							
		OD			mm	19,1							
	Gas	Type				Braze connection							
		OD			mm	34.9				41.3			
	HP/LP gas	Type				Brazing connections							
		OD			mm	28.6 (2)					34.9 (2)		
	Total piping length	System	Actual		m	1,000 (7)							
Defrost method						Reversed cycle							
PED	Category					Category II							
Cooling	Cdc (Degradation cooling)					0.25							
Heating	Cdh (Degradation heating)					0.25							
Power consumption in other than active mode	Crankcase heater	Cooling	PCK		kW	0.000							
		Heating	PCK		kW	0.127		0.154			0.175	0.177	0.204
	Off mode	Cooling	POFF		kW	0.113		0.134			0.149	0.159	0.180
		Heating	POFF		kW	0.127		0.154			0.175	0.177	0.204
	Standby mode	Cooling	PSB		kW	0.113		0.134			0.149	0.159	0.180
		Heating	PSB		kW	0.127		0.154			0.175	0.177	0.204
	Thermostat-off mode	Cooling	PTO		kW	0.040		0.054			0.053		0.067
		Heating	PTO		kW	0.179		0.224			0.244	0.246	0.291
Indication if the heater is equipped with a supplementary heater						no							
Supplementary heater	Back-up capacity	Heating	elbu		kW	0.0							

Standard Accessories : Installation and operation manual; Quantity : 1;

Standard Accessories : Connection pipes; Quantity : 1;

2 Specifications

2-5 Technical Specifications					REYQ44T	REYQ46T	REYQ48T	REYQ50T	REYQ52T	REYQ54T
System	Outdoor unit module 1				REYQ12T	REYQ14T	REYQ16T			REYQ18T
	Outdoor unit module 2				REYQ16T				REYQ18T	
	Outdoor unit module 3				REYQ16T			REYQ18T		
Recommended combinations					6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	1 x FXMQ50P7VEB + 13 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	12 x FXMQ63P7VEB + 6 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 13 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 14 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	9 x FXMQ50P7VEB + 15 x FXMQ63P7VEB
Continuous heating					Yes					
Cooling capacity	Prated,c			kW	123.5 (1)	130.0 (1)	135.0 (1)	140.4 (1)	145.8 (1)	151.2 (1)
Heating capacity	Prated,h			kW	62.9 (2)	67.0 (2)	69.6 (2)	74.3 (2)	79.0 (2)	83.7 (2)
	Max.	6°CWB		kW	137.5 (3)	145.0 (3)	150.0 (3)	156.5 (3)	163.0 (3)	169.5 (3)
ESEER - Automatic					6.68	6.75	6.63	6.49	6.37	6.26
SEER					5.5	5.6	5.5			
SCOP					3.7	3.5		3.7	3.8	
ηs,c				%	216.8	219.7	216.8	216.5	216.3	216.2
ηs,h				%	145.6	138.2	138.9	144.1	148.0	149.6
Space cooling	A Condition (35°C - 27/19)	EERd			2.2	2.3	2.1			
		Pdc		kW	123.5	130.0	135.0	140.4	145.8	151.2
	B Condition (30°C - 27/19)	EERd			4.0			3.9	3.8	3.7
		Pdc		kW	91.0	95.8	99.5	103.4	107.4	111.4
	C Condition (25°C - 27/19)	EERd			6.8	6.9	6.8			6.7
		Pdc		kW	58.5	61.6	63.9	66.5	69.1	71.6
	D Condition (20°C - 27/19)	EERd			9.6	9.9	10.0	10.6	11.2	11.8
		Pdc		kW	26.0	27.4	28.4	29.6	30.7	31.8
Space heating (Average climate)	TBivalent	COPd (declared COP)			1.9	1.8		1.9	2.0	2.1
		Pdh (declared heating cap)		kW	62.9	67.0	69.6	74.3	79.0	83.7
		Tbiv (bivalent temperature)		°C	-10					
	TOL	COPd (declared COP)			1.9	1.8		1.9	2.0	2.1
		Pdh (declared heating cap)		kW	62.9	67.0	69.6	74.3	79.0	83.7
		Tol (temperature operating limit)		°C	-10					
	A Condition (-7°C)	COPd (declared COP)			2.3	2.2		2.3		
		Pdh (declared heating cap)		kW	55.6	59.2	61.5	65.7	69.9	74.0
	B Condition (2°C)	COPd (declared COP)			3.3			3.4		
		Pdh (declared heating cap)		kW	33.9	36.1	37.5	40.0	42.5	45.1
	C Condition (7°C)	COPd (declared COP)			6.1	5.7			5.8	
		Pdh (declared heating cap)		kW	22.7	23.2	24.1	25.7	27.3	29.0
	D Condition (12°C)	COPd (declared COP)			5.9	4.1	4.2	5.6	7.1	
		Pdh (declared heating cap)		kW	10.5	12.4	12.6	11.4	12.2	12.9
Capacity range				HP	44	46	48	50	52	54
Maximum number of connectable indoor units					64 (4)					
Indoor index connection	Min.				550.0	575.0	600.0	625.0	650.0	675.0
	Max.				1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Heat exchanger	Indoor side				Air					
	Outdoor side				air					
	Air flow rate	Cooling	Rated	m³/h	42,300 (2)	44,580 (2)	46,800 (2)	46,260 (2)	45,720 (2)	45,180 (2)
		Heating	Rated	m³/h	42,300 (2)	44,580 (2)	46,800 (2)	46,260 (2)	45,720 (2)	45,180 (2)
Sound power level	Cooling	Nom.		dBA	89.6 (5)		90.8 (5)			
Sound pressure level	Cooling	Nom.		dBA	68.0 (6)		68.8 (6)	69.1 (6)	69.5 (6)	69.8 (6)
Refrigerant	Type				R-410A					
	GWP				2,087.5					

2 Specifications

2-5 Technical Specifications					REYQ44T	REYQ46T	REYQ48T	REYQ50T	REYQ52T	REYQ54T
Refrigerant oil	Type				Synthetic (ether) oil FVC68D					
Piping connections	Liquid	Type			Braze connection					
		OD		mm	19,1					
	Gas	Type			Braze connection					
		OD		mm	41.3					
	HP/LP gas	Type			Brazing connections					
		OD		mm	34.9 (2)					
	Total piping length	System	Actual	m	1,000 (7)					
Defrost method					Reversed cycle					
PED	Category				Category II					
Cooling	Cdc (Degradation cooling)				0.25					
Heating	Cdh (Degradation heating)				0.25					
Power consumption in other than active mode	Crankcase heater	Cooling	PCK	kW	0.000					
		Heating	PCK	kW	0.204	0.231				
	Off mode	Cooling	POFF	kW	0.180	0.201				
		Heating	POFF	kW	0.204	0.231				
	Standby mode	Cooling	PSB	kW	0.180	0.201				
		Heating	PSB	kW	0.204	0.231				
	Thermostat-off mode	Cooling	PTO	kW	0.067	0.081				
		Heating	PTO	kW	0.291	0.336				
Indication if the heater is equipped with a supplementary heater					no					
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0					

Standard Accessories : Installation and operation manual; Quantity : 1;

Standard Accessories : Connection pipes; Quantity : 1;

2-6 Electrical Specifications				REYQ10T	REYQ13T	REYQ16T	REYQ18T	REYQ20T	REYQ22T	REYQ24T	REYQ26T
Voltage range	Min.		%	-10							
	Max.		%	10							
Current	Nominal running current (RLA) - 50Hz	Cooling	A	8.2 (8)	11.8 (8)	15.4 (8)	18.2 (8)	21.5 (8)	24.3 (8)	26.2 (8)	29.4 (8)
Current - 50Hz	Starting current (MSC) - remark			(9)							
	Minimum circuit amps (MCA)		A	30.0 (10)			37.0 (10)	39.0 (10)	46.0 (10)		51.0 (10)
	Maximum fuse amps (MFA)		A	40 (11)			50 (11)		63 (11)		
Wiring connections - 50Hz	For power supply	Quantity		5G							
	For connection with indoor	Quantity		2							
		Remark		F1,F2							
Power supply intake				Both indoor and outdoor unit							

2-7 Electrical Specifications				REYQ28T	REYQ30T	REYQ32T	REYQ34T	REYQ36T	REYQ38T	REYQ40T	REYQ42T
Voltage range	Min.		%	-10							
	Max.		%	10							
Current	Nominal running current (RLA) - 50Hz	Cooling	A	32.3 (8)	35.8 (8)	37.0 (8)	40.5 (8)	47.0 (8)	43.5 (8)	46.3 (8)	47.5 (8)
Current - 50Hz	Starting current (MSC) - remark			(9)							
	Minimum circuit amps (MCA)		A	55.0 (10)	59.0 (10)	62.0 (10)	66.0 (10)	70.0 (10)	74.0 (10)	81.0 (10)	84.0 (10)
	Maximum fuse amps (MFA)		A	63 (11)	80 (11)				100 (11)		
Wiring connections - 50Hz	For power supply	Quantity		5G							
	For connection with indoor	Quantity		2							
		Remark		F1,F2							
Power supply intake				Both indoor and outdoor unit							

2-8 Electrical Specifications				REYQ44T	REYQ46T	REYQ48T	REYQ50T	REYQ52T	REYQ54T
Voltage range	Min.		%	-10					
	Max.		%	10					
Current	Nominal running current (RLA) - 50Hz	Cooling	A	50.8 (8)	52.6 (8)	55.5 (8)	59.0 (8)	62.5 (8)	66.0 (8)
Current - 50Hz	Starting current (MSC) - remark			(9)					
	Minimum circuit amps (MCA)		A	86.0 (10)	89.0 (10)	93.0 (10)	97.0 (10)	101.0 (10)	105.0 (10)
	Maximum fuse amps (MFA)		A	100 (11)		125 (11)			

2 Specifications

2-8 Electrical Specifications			REYQ44T	REYQ46T	REYQ48T	REYQ50T	REYQ52T	REYQ54T
Wiring connections - 50Hz	For power supply	Quantity	5G					
	For connection with indoor	Quantity	2					
		Remark	F1,F2					
Power supply intake			Both indoor and outdoor unit					

Notes

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

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

(3) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m

(4) Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%)

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

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

(7) Refer to refrigerant pipe selection or installation manual

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

(9) MSC means the maximum current during start up of the compressor. VRV IV uses only inverter compressors. Starting current is always ≤ max. running current.

(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).

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

TOCA means the total value of each OC set.

FLA means the nominal running current of the fan

Maximum allowable voltage range variation between phases is 2%.

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

The AUTOMATIC ESEER value corresponds with normal VRV4 Heat Recovery operation, taking into account advanced energy saving operation functionality (variable refrigerant temperature control operation)

The STANDARD ESEER value corresponds with normal VRV4 Heat Recovery operation, not taking into account advanced energy saving operation functionality

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 phase

Ssc: Short-circuit power

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

3 Options

3 - 1 Options

REMQ5T
REYQ-T

Description	Option	REMQ5*	REYQ8*	REYQ10*	REYQ12*	REYQ14*	REYQ16*	REYQ18*	REYQ20*	Multi -2-	Multi -3-
Low ambient option	EKBPH012T (*1)	o	o	o	o	-	-	-	-	o	o
Bottom plate heater	EKBPH020T (*1)	-	-	-	-	o	o	o	o	o	o
PC cable kit	EKPCCAB2	o	o	o	o	o	o	o	o	o	o
Refnet header	KHRQ23M29H	o	o	o	o	o	o	o	o	o	o
	KHRQ23M64H	-	-	-	o	o	o	o	o	o	o
	KHRQ23M75H	-	-	-	-	-	-	-	-	o	o
Refnet joint	KHRQ23M20T	o	o	o	o	o	o	o	o	o	o
	KHRQ23M29T9	o	o	o	o	o	o	o	o	o	o
	KHRQ23M64T	-	-	-	o	o	o	o	o	o	o
	KHRQ23M75T	-	-	-	-	-	-	-	-	o	o
Outdoor multi-connection kit	BHFQ23P907	-	-	-	-	-	-	-	-	o	-
	BHFQ23P1357	-	-	-	-	-	-	-	-	-	o
Single -BSVQ- unit (*2) (*3)	BS1Q10A	o	o	o	o	o	o	o	o	o	o
	BS1Q16A	o	o	o	o	o	o	o	o	o	o
	BS1Q25A	o	o	o	o	o	o	o	o	o	o
Multi -BS- unit	BS4Q14A	o	o	o	o	o	o	o	o	o	o
	BS6Q14A	o	o	o	o	o	o	o	o	o	o
	BS8Q14A	o	o	o	o	o	o	o	o	o	o
	BS10Q14A	o	o	o	o	o	o	o	o	o	o
	BS12Q14A	o	o	o	o	o	o	o	o	o	o
	BS16Q14A	o	o	o	o	o	o	o	o	o	o

Notes
1. One bottom plate heater per outdoor unit required.
2. Sound reduction kit -EKBSVQLNP-
   One sound reduction kit per -BSVQ- box required.
3. Technical cooling is available.
4. Multi-tenancy is available

3D088010

4 Combination table

4 - 1 Combination Table

REYQ-T

		5HP	8HP	10HP	12HP	14HP	16HP	18HP	20HP
	REMQ5* (*1)	1							
Non-continuous heating	**REYQ8***		1						
	REYQ10*			1					
	REYQ12*				1				
	REYQ14*					1			
	REYQ16*						1		
	REYQ18*							1	
	REYQ20*								1
Continuous heating ·2· outdoor units	**REYQ10***	2							
	REYQ13*	1	1						
	REYQ16*		2						
	REYQ18*		1	1					
	REYQ20*		1		1				
	REYQ22*			1	1				
	REYQ24*		1				1		
	REYQ26*				1	1			
	REYQ28*				1		1		
	REYQ30*				1			1	
	REYQ32*						2		
	REYQ34*						1	1	
	REYQ36*						1		1
Continuous heating ·3· outdoor units	**REYQ38***		1		1			1	
	REYQ40*			1	1			1	
	REYQ42*			1			2		
	REYQ44*				1		2		
	REYQ46*					1	2		
	REYQ48*						3		
	REYQ50*						2	1	
	REYQ52*						1	2	
	REYQ54*							3	

Notes
1. The ·REMQ5*· unit cannot be used as a standalone unit and may only be used in standard combinations.
2. Standard and free combinations have different piping restrictions.
3. Never combine more than ·3· units to create a multi-combination.

3D088011

REYQ-T

Indoor unit combination pattern	VRV indoor unit	VRV indoor unit Cooling only unit	LT Hydrobox unit	HT Hydrobox unit	AHU (*3)
VRV indoor unit	o	o	o	o	o
VRV indoor unit Cooling only unit	o	o	o	*Not allowed*	o
LT Hydrobox unit	o	o	o (*1)	o (*1)	*Not allowed*
HT Hydrobox unit	o	*Not allowed*	o (*1)	o (*1)	*Not allowed*
AHU (*3)	o	o	*Not allowed*	*Not allowed*	o (*2)

Notes
1. ·Hydroboxes· indoor units may not be used without a ·VRV· indoor unit
   Refer to the connection ratio restrictions.
2. ·AHUs·/air curtains may not be used without a ·VRV· indoor unit.
   Refer to the connection ratio restrictions.
3. The following units are considered AHUs:
   3.1 ·EKEXV + EKEQM + AHU· coil
   3.2 ·Biddle· air curtain
   3.3 ·FXMQ*MF· unit

3D088013

5 Capacity tables

5 - 1 Capacity Table Legend

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

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

- Capacity table database: lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
  Click here to access the capacity table viewer.

- For more information about all our tools we offer click here to see the overview on my.daikin.eu

5 Capacity tables

5 - 2 Integrated Heating Capacity Correction Factor

REYQ-T

The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.

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

Formula **A = B * C**

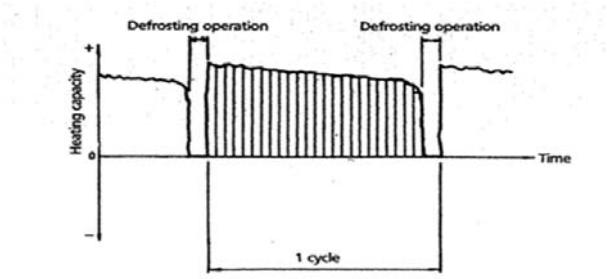
A= Integrated heating capacity
B= Capacity characteristics value
C= Integrated correction factor for frost accumulation (see table)

Inlet air temperature of heat exchanger

	[°CDB/°CWB]	-7/-7,6	-5/-5,6	-3/-3,7	0/-0,7	3/2,2	5/4,1	7/6
	Integrated correction factor for frost accumulation ·(C)·							
For single unit installation	**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
For multi-unit installation	**10HP**	0.95	0.93	0.88	0.84	0.85	0.90	1.00
	13HP	0.95	0.93	0.88	0.84	0.85	0.90	1.00
	16HP	0.95	0.93	0.88	0.84	0.85	0.90	1.00
	18HP	0.95	0.93	0.88	0.82	0.83	0.89	1.00
	20HP	0.95	0.93	0.88	0.80	0.81	0.88	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

1. The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).
2. When there is an accumulation of snow against the outdoor unit heat exchanger, there will always be a temporary reduction in capacity depending on the outdoor temperature (°C DB), relative humidity (RH) and the amount of frosting which occurs.
3. The multi-combination data ·VRV4· corresponds with the standard multi-combination of drawing ·3D088011·.

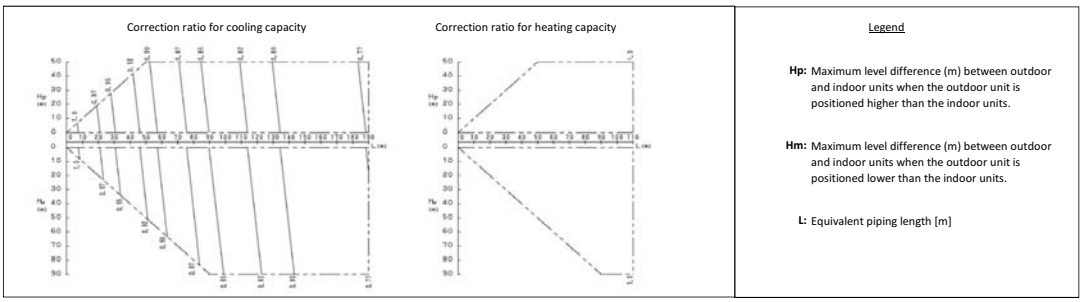


3D088034

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ8T
REYQ22T



Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
8HP	9.5	12.7
22HP	15.9	19.1

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

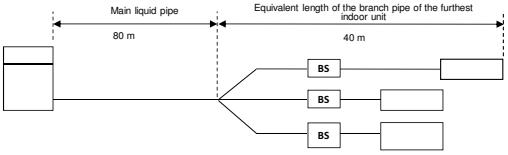
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
8HP	1	0.5	1	0.2
22HP	1	0.5	1	0.4

5. Example ·8HP·

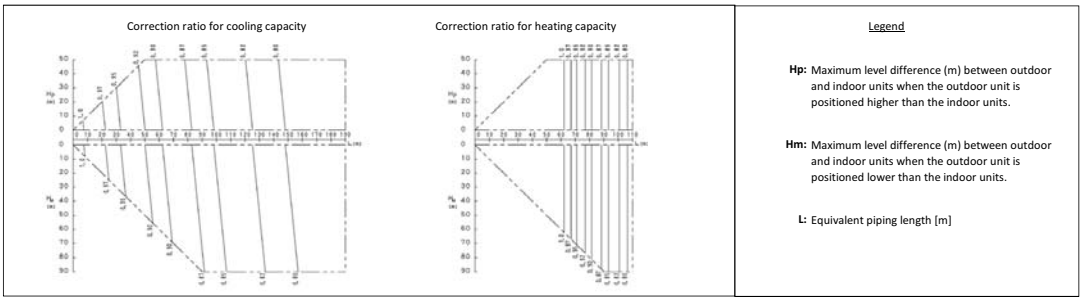


Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,2 + 40 m = 56 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,86
- Heating mode = 1,0

3D088033

REYQ10T



Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
10HP	9.5	12.7

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

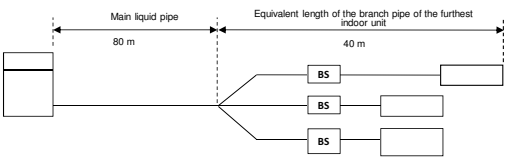
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
10HP	1	0.5	1	0.2

5. Example ·10HP·



Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,2 + 40 m = 56 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,88
- Heating mode = 1,0

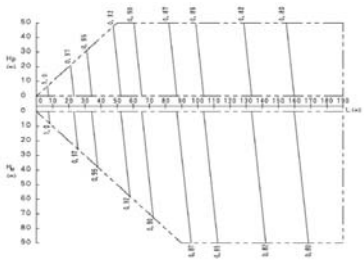
3D088033

5 Capacity tables

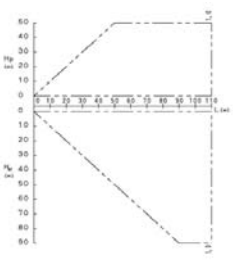
5 - 3 Capacity Correction Factor

REYQ12T
REYQ18T
REYQ26T
REYQ28T
REYQ30T
REYQ38T
REYQ40T
REYQ42T
REYQ44T

Correction ratio for cooling capacity



Correction ratio for heating capacity



Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
12HP	12.7	15.9
18HP	15.9	19.1
26+28+30+38+40+42+44HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

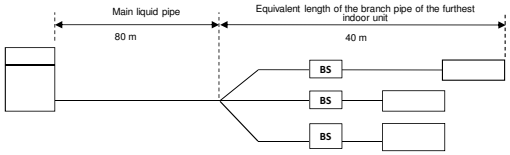
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
12HP	1	0.5	1	0.3
18+26+28+30+38+40+42+44HP	1	0.5	1	0.4

5. Example ·18HP·



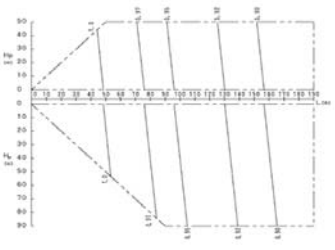
Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,88
- Heating mode = 1,0

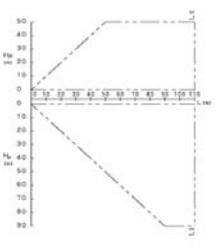
3D088033

REYQ13T
REYQ14T

Correction ratio for cooling capacity



Correction ratio for heating capacity



Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
13+14HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

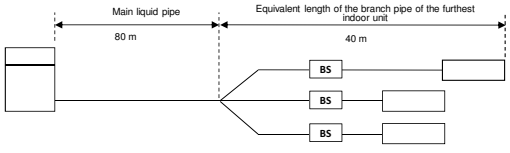
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
13+14HP	1	0.5	1	0.3

5. Example ·14HP·



Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,3 + 40 m = 64 m

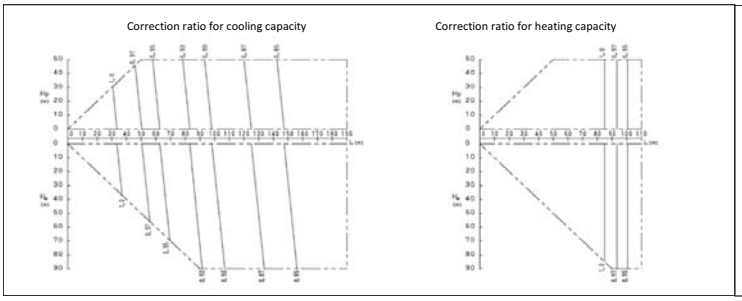
Capacity correction ratio (height difference = 0)
- Cooling mode = 0,96
- Heating mode = 1,0

3D088033

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ16T



Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
16HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

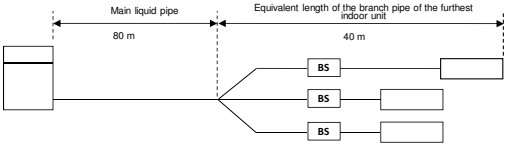
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
16HP	1	0.5	1	0.3

5. Example ·16HP·

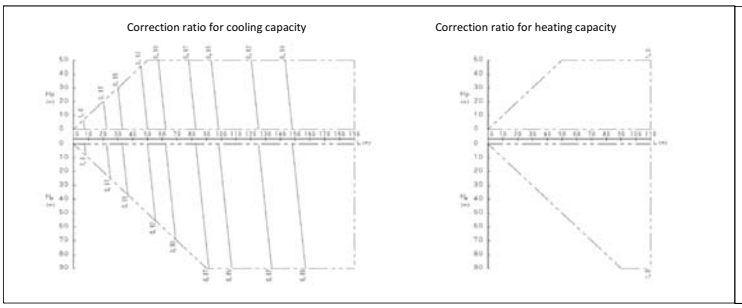


Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,93
- Heating mode = 1,0

3D088033

REYQ20T
REYQ32T
REYQ34T



Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
20HP	15.9	19.1
32+34HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

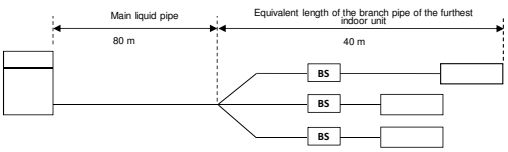
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
20+32+34HP	1	0.5	1	0.4

5. Example ·20HP·



Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,4 + 40 m = 72 m

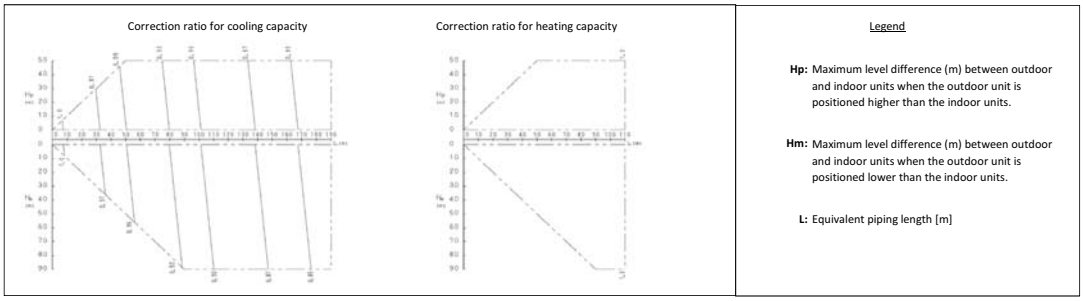
Capacity correction ratio (height difference = 0)
- Cooling mode = 0,88
- Heating mode = 1,0

3D088033

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ24T



Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
24HP	15.9	19.1

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

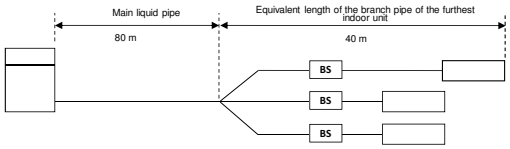
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
24HP	1	0.5	1	0.4

5. Example ·24HP·

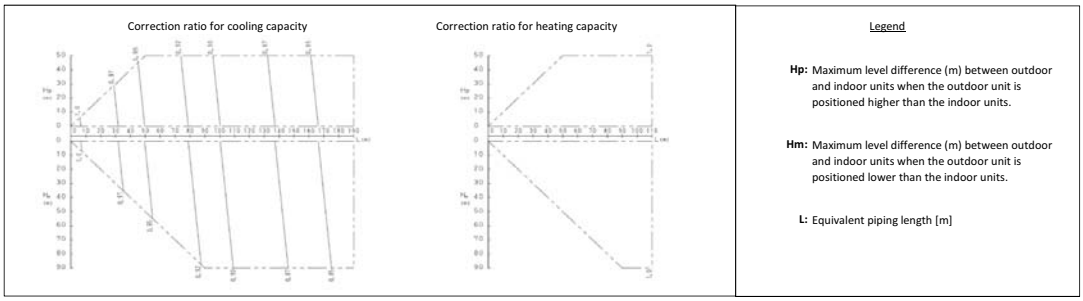


Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,93
- Heating mode = 1,0

3D088033

REYQ36T



Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
36HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

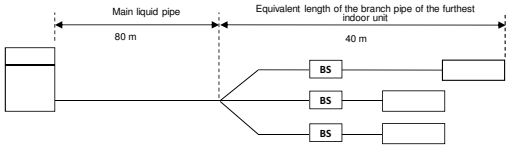
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
36HP	1	0.5	1	0.4

5. Example ·36HP·



Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,4 + 40 m = 72 m

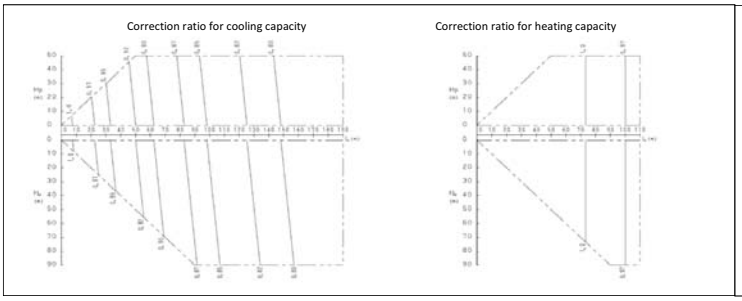
Capacity correction ratio (height difference = 0)
- Cooling mode = 0,92
- Heating mode = 1,0

3D088033

5 Capacity tables

5 - 3 Capacity Correction Factor

REYQ46T



Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
46HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

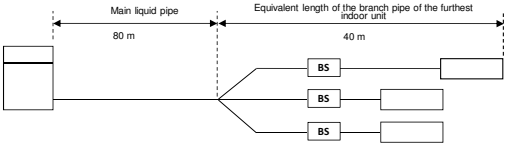
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
46HP	1	0.5	1	0.4

5. Example ·46HP·



Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,88
- Heating mode = 1,0

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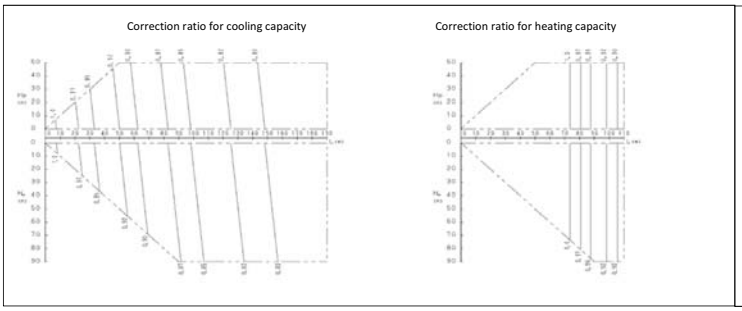
REYQ48T
REYQ50T
REYQ52T
REYQ54T



Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

1. These figures illustrate the capacity correction factor due to the piping length 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, as shown it the above figures.

2. 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 less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 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 unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
48~54HP	19.1	22.2

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

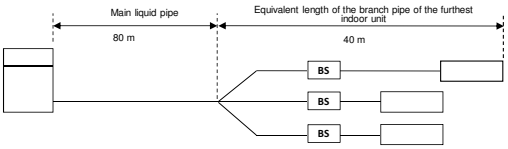
4. Overall equivalent length

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction ratio for cooling capacity		Correction ratio for heating capacity	
	Standard size	Size increase	Standard size	Size increase
48~54HP	1	0.5	1	0.4

5. Example ·48HP·



Overall equivalent length
- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,88
- Heating mode = 1,0

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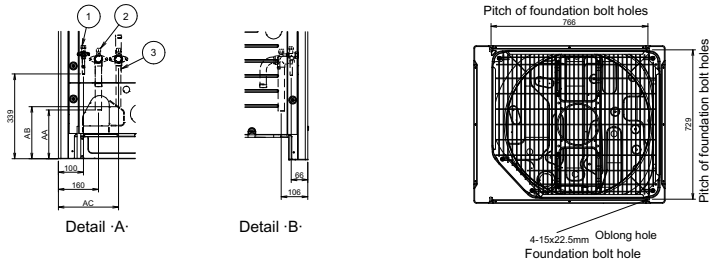
6 Dimensional drawings

6 - 1 Dimensional Drawings

REYQ8-12T



Model	AA	AB	AC
RYYQ8T, RXYQ8T, RXYQQ8T, RXYTQ8T	248	-	-
RYYQ10-12T, RXYQ10-12T, RXYQQ10-12T	195	-	-
RYMQ 8T	248	208	240
REMQ5T, RYMQ10-12T, REYQ8-12T	195	208	240

Notes

1. Detail ·A· and detail ·B· indicate the dimensions after fixing the attached piping. Items ·4 - 10·
2. Knockout hole.
3. Gas pipe
   RYYQ8T, RYMQ8T, RXYQ8T, RXYQQ8T, RXYTQ8T RYYQ10T, RYMQ10T, RXYQ10T, RXYQQ10T REMQ5T, REYQ8-12T RYYQ12T, RYMQ12T, RXYQ12T, RXYQQ12T : Ø ·19.1· brazing connection : Ø ·22.2· brazing connection : Ø ·25.4· brazing connection : Ø ·28.6· brazing connection
   Liquid pipe
   RYYQ8-10T, RYMQ8-10T, RXYQ8-10T, RXYQQ8-10T, REMQ5T, REYQ8-12T, RXYTQ8T : Ø ·9.5· brazing connection
   RYYQ12T, RYMQ12T, RXYQ12T, RXYQQ12T : Ø ·12.7· brazing connection
   Equalising pipe
   RYMQ8-10T : Ø ·19.1· brazing connection
   RYMQ12T : Ø ·22.2· brazing connection
   High pressure/low pressure gas pipe
   REMQ5T, REYQ8-12T : Ø ·19.1· brazing connection

No.	Part name	Remark
11	Grounding terminal	Inside of the switch box (·M8·)
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	
8	Power cord routing hole (bottom)	Ø65
7	Power cord routing hole (front)	Ø27
6	Power cord routing hole (front)	Ø65
5	Power cord routing hole (front)	Ø80
4	Power cord routing hole (side)	Ø65
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note ·3·.
2	Gas pipe connection port	See note ·3·.
1	Liquid pipe connection port	See note ·3·.

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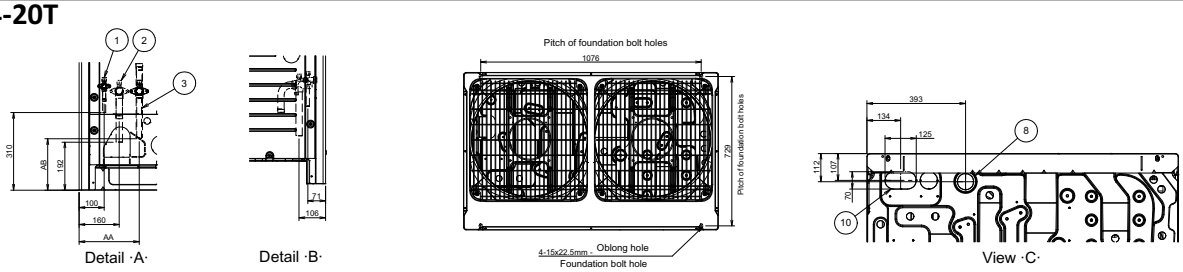
REYQ14-20T



Model	AA	AB
RYMQ14-16T, RXYQQ14-16T, REYQ14-20T	240	205
RYMQ18-20T, RXYQQ18-20T	240	210

Notes

1. Detail ·A· and detail ·B· indicate the dimensions after fixing the attached piping.
2. Items ·4 - 10· Knockout hole.
3. Gas pipe
   RXYTQ10T
   REYQ14-20T
   RYYQ14-20T, RYMQ14-20T, RXYQ14-20T, RXYQQ14-20T, RXYTQ12-16T : Ø ·22.2· brazing connection : Ø ·25.4· brazing connection : Ø ·28.6· brazing connection : Ø ·9.5· brazing connection
   Liquid pipe
   RXYTQ10T
   RYYQ14-16T, RYMQ14-16T, RXYQ14-16T, RXYQQ14-16T, REYQ14-20T, RXYTQ12-16T RYYQ18-20T, RYMQ18-20T, RXYQ18-20T, RXYQQ18-20T : Ø ·12.7· brazing connection : Ø ·15.9· brazing connection
   Equalising pipe
   RYMQ14-16T : Ø ·22.2· brazing connection
   RYMQ18-20T : Ø ·28.6· brazing connection
   High pressure/low pressure gas pipe
   REYQ14-20T : Ø ·22.2· brazing connection

No.	Part name	Remark
11	Grounding terminal	Inside of the switch box (·M8·)
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	
8	Power cord routing hole (bottom)	Ø65
7	Power cord routing hole (front)	Ø27
6	Power cord routing hole (front)	Ø65
5	Power cord routing hole (front)	Ø80
4	Power cord routing hole (side)	Ø65
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note ·3·.
2	Gas pipe connection port	See note ·3·.
1	Liquid pipe connection port	See note ·3·.

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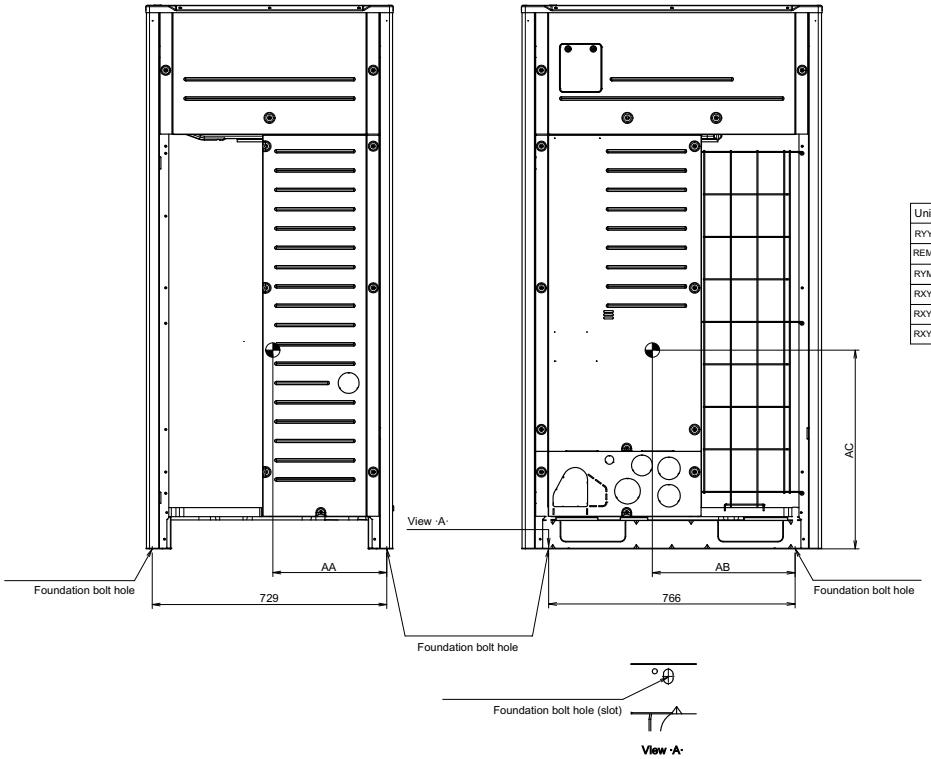
7 Centre of gravity

7 - 1 Centre of Gravity

REYQ8-12T



Unit	AA	AB	AC
RYYQ8-12T	328	366	565
REMQ5T / REYQ8-12T			
RYMQ8-12T	354	443	565
RXYQ8-12T	339	448	565
RXYQQ8-12T			
RXYTQ8T			

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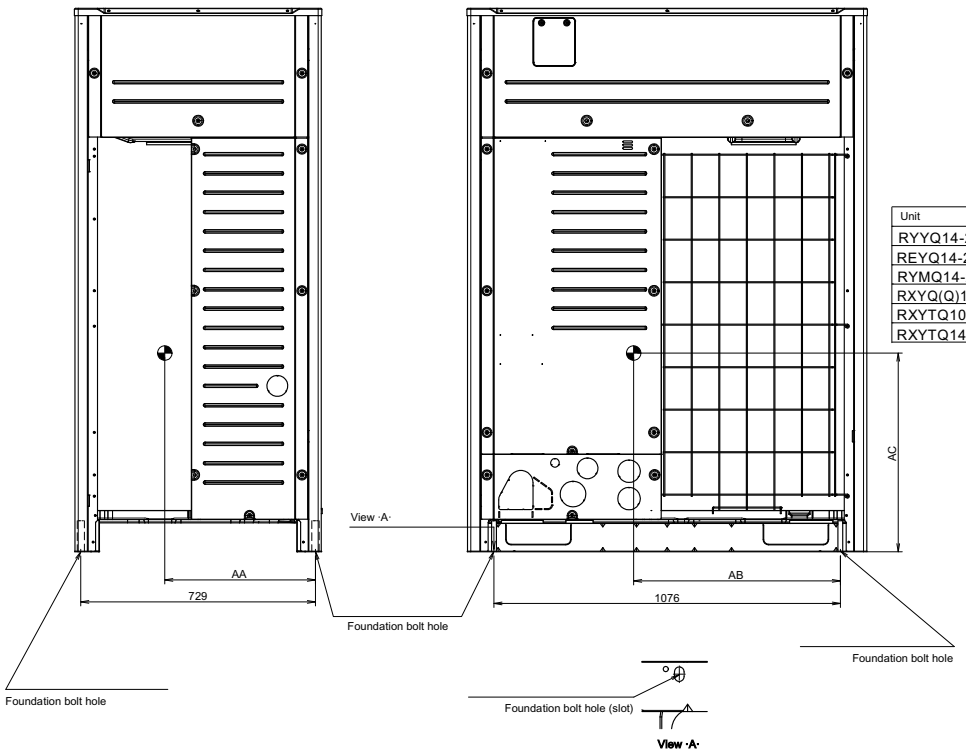
REYQ14-20T



Unit	AA	AB	AC
RYYQ14-20	334	470	610
REYQ14-20T	334	470	610
RYMQ14-20	360	569	610
RXYQ(Q)14-20	345	575	610
RXYTQ10-12T	350	610	810
RXYTQ14-16T	351	565	610

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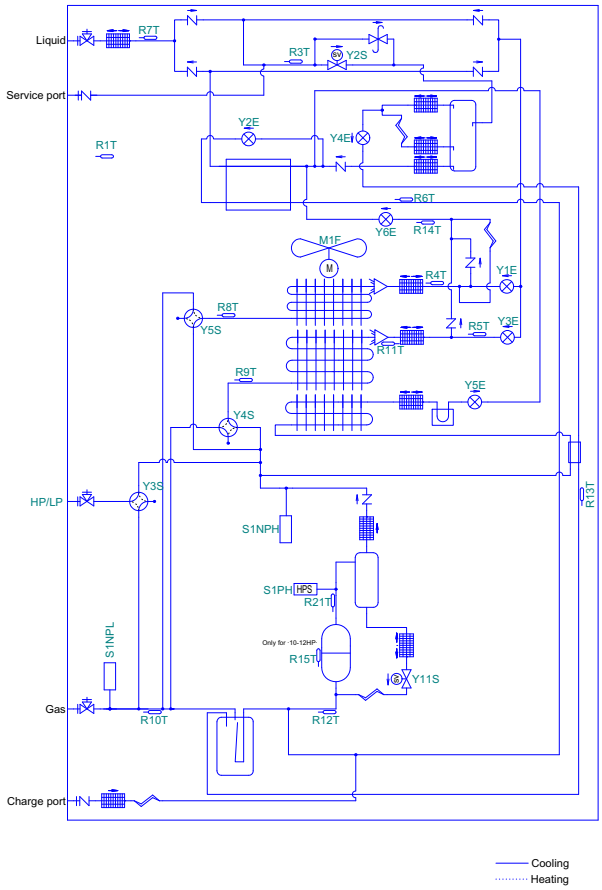
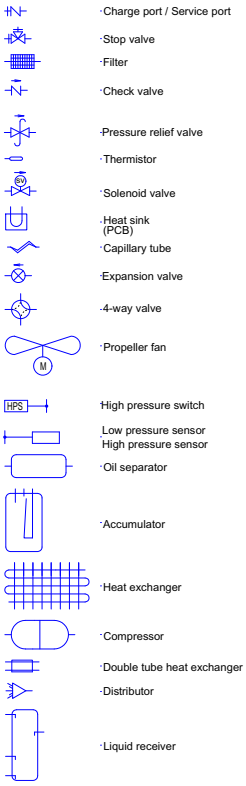
8 Piping diagrams

8 - 1 Piping Diagrams

REYQ8-12T





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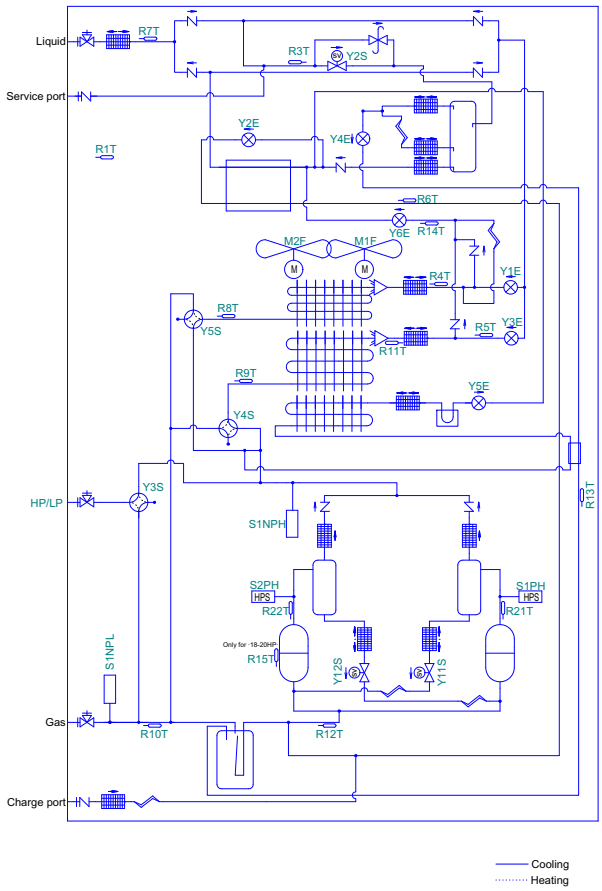
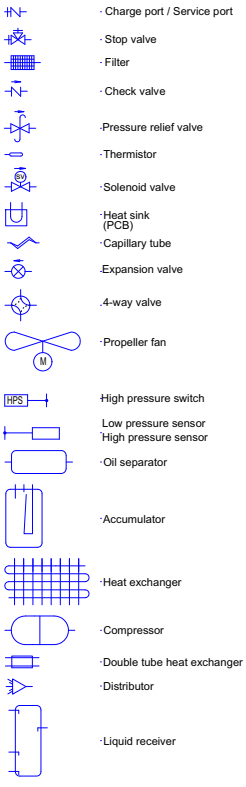
REYQ14-20T





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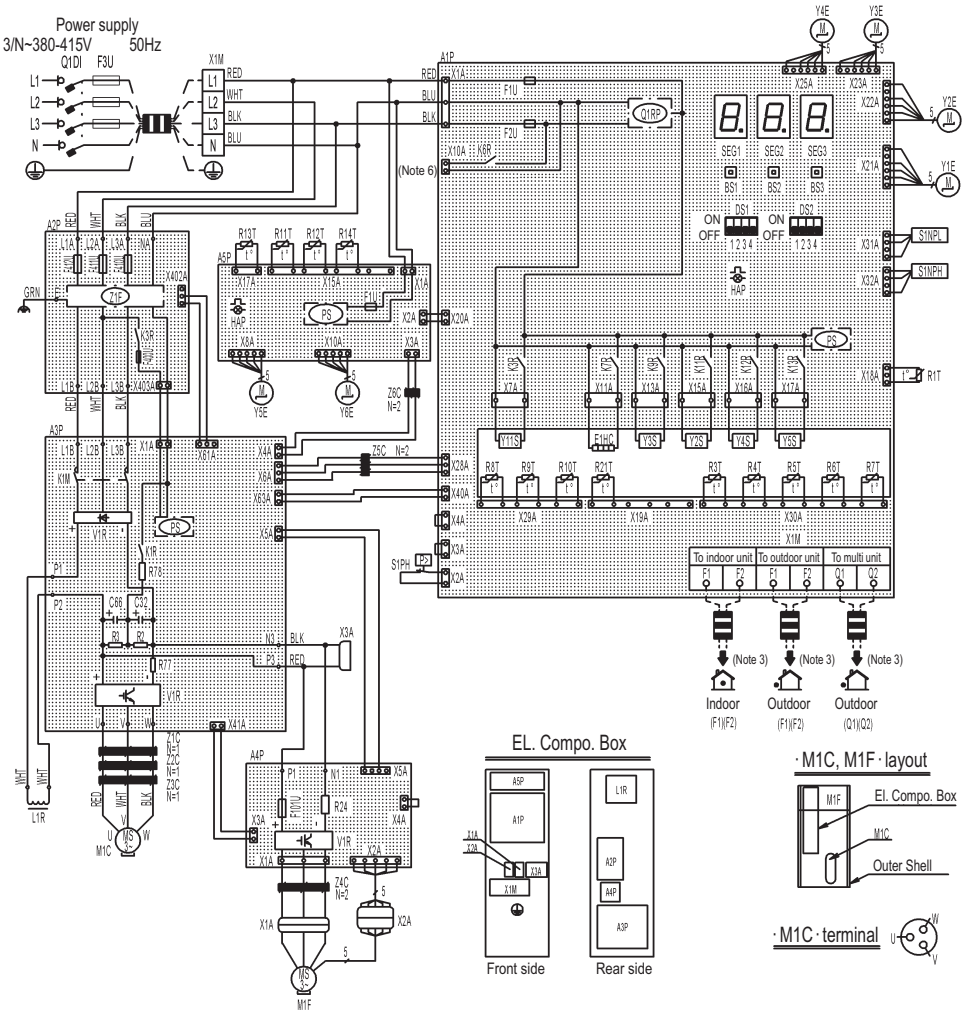
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

REMQ5T7Y1B
REYQ8T7Y1B



2D087541A

A1P	Printed Circuit Board (main)	K13R	Magnetic Relay (Y5S) (A1P)	SEG1~SEG3	7-Segment Display (A1P)
A2P	Printed Circuit Board (noise filter)	L1R	Reactor	V1R	Power Module (A3P) (A4P)
A3P	Printed Circuit Board (inv)	M1C	Motor (Compressor)	X1A, X2A	Connector (M1F)
A4P	Printed Circuit Board (fan)	M1F	Motor (Fan)	X3A	Connector (check the residual charge)
A5P	Printed Circuit Board (sub)	PS	Switching Power Supply (A1P) (A3P) (A5P)	X1M	Terminal Block (Power Supply)
BS1~3	Push Button Switch (A1P) (Mode, Set, Return)	Q1DI	Field Earth Leakage Breaker	X1M	Terminal Block (Control) (A1P)
		Q1RP	Phase Reversal Detect Circuit (A1P)	Y1E	Electronic Expansion Valve (Heat Exc. Upper)
C66, C32	Capacitor (A3P)	R1T	Thermistor (Air) (A1P)	Y2E	Electronic Expansion Valve (Subcool Heat Exc.)
DS1, DS2	DIP Switch (A1P)	R21T	Thermistor (M1C Discharge) (A1P)	Y3E	Electronic Expansion Valve (Heat Exc. Lower)
E1HC	Crankcase Heater	R3T	Thermistor (Liq. Main) (A1P)	Y4E	Electronic Expansion Valve (Receiver Gas)
F1U, F2U	Fuse (T, 3,15A , 250V) (A1P)	R4T	Thermistor (Heat Exc. Liq. Upper) (A1P)	Y5E	Electronic Expansion Valve (Inverter Cooling)
F1U	Fuse (T, 3,15A , 250V) (A5P)	R5T	Thermistor (Heat Exc. Liq. Lower) (A1P)	Y6E	Electronic Expansion Valve (Auto Charge)
F101U	Fuse (A4P)	R6T	Thermistor (Subcool Heat Exc. Gas) (A1P)	Y11S	Solenoid Valve (M1C Oil Return)
F3U	Field Fuse	R7T	Thermistor (Subcool Heat Exc. Liq) (A1P)	Y2S	Solenoid Valve (Liq. Pipe)
F410U~F412U	Fuse (A2P)	R8T	Thermistor (Heat Exc. Gas Upper) (A1P)	Y3S	Solenoid Valve (HP/LP Gas Pipe)
F400U	Fuse (A2P)	R9T	Thermistor (Heat Exc. Gas Lower) (A1P)	Y4S	Solenoid Valve (Heat Exc. Lower)
HAP	Pilotlamp (A1P) (A5P) (Service monitor-green)	R10T	Thermistor (Suction) (A1P)	Y5S	Solenoid Valve (Heat Exc. Upper)
		R11T	Thermistor (Heat Exc. Deicer) (A5P)	Z1C~Z6C	Noise Filter (Ferrite Core)
K1M	Magnetic Contactor (A3P)	R12T	Thermistor (Suction Compressor) (A5P)	Z1F	Noise Filter (A2P) (With Surge Absorber)
K1R	Magnetic Relay (A3P)	R13T	Thermistor (Receiver Gas) (A5P)		
K3R	Magnetic Relay (A2P)	R14T	Thermistor (Auto Charge) (A5P)		
K3R	Magnetic Relay (Y11S) (A1P)	R78	Resistor (Current Limiting) (A3P)	Connector for Optional Accessories	
K6R	Magnetic Relay (Optional Bottomplate Heater) (A1P)	R24	Resistor (Current Sensor) (A4P)	X10A	Connector (Bottom plate Heater)
		R77	Resistor (Current Sensor) (A3P)		
K7R	Magnetic Relay (E1HC) (A1P)	R3, R2	Resistor (A3P)		
K9R	Magnetic Relay (Y3S) (A1P)	S1NPH	Pressure Sensor (High)		
K11R	Magnetic Relay (Y2S) (A1P)	S1NPL	Pressure Sensor (Low)		
K12R	Magnetic Relay (Y4S) (A1P)	S1PH	Pressure Switch (High)		

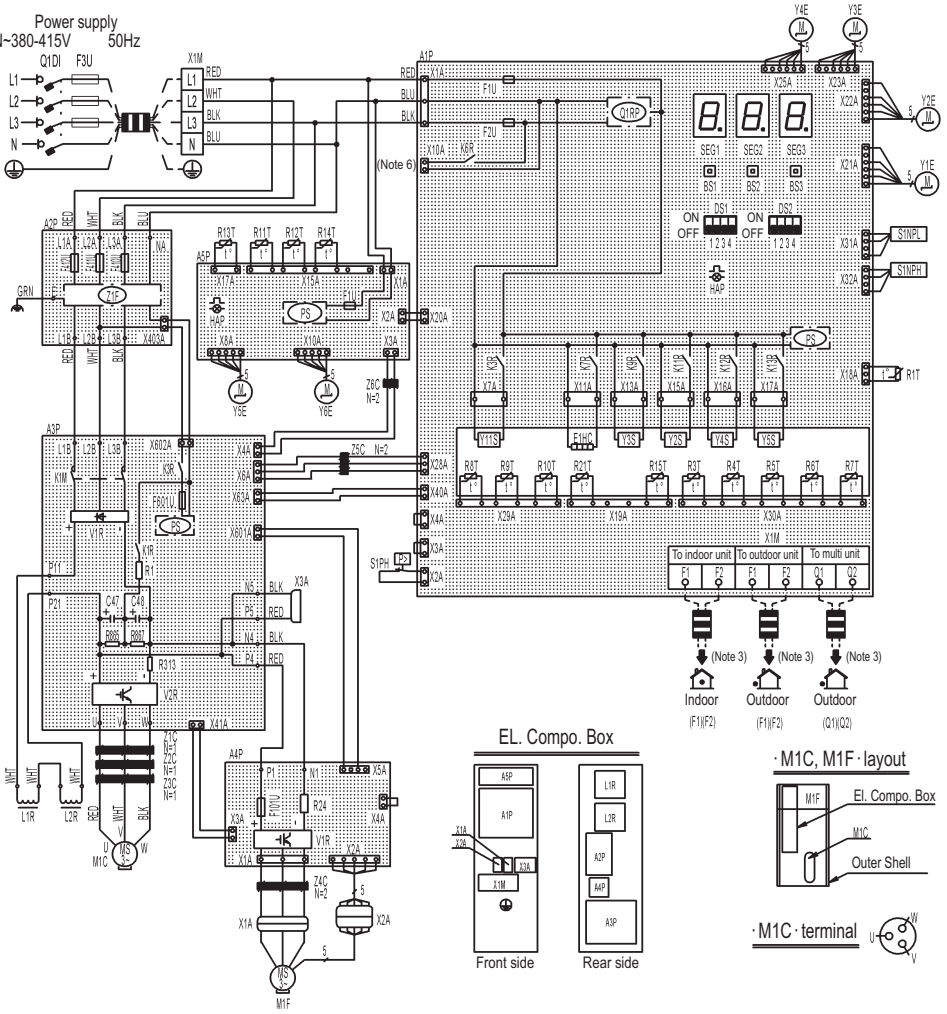
NOTES

1. This wiring diagram applies only to the outdoor unit.
2. ⚏: field wiring, ⊟: terminal block, ⊡: connector, –○–: terminal, ⏚: Protective Earth (Screw).
3. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual.
4. When operating, don't shortcircuit the protection device (S1PH)
5. Colors BLK:BLACK; RED: RED; BLU; BLUE; WHT: WHITE; GRN: GREEN.
6. When using the optional accessory, refer to the installation manual of the optional accessory.

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

REYQ10,12T7Y1B



2D087155A

A1P	Printed Circuit Board (main)	K13R	Magnetic Relay (Y5S) (A1P)	S1PH	Pressure Switch (High)
A2P	Printed Circuit Board (noise filter)	L1R, L2R	Reactor	SEG1~SEG3	7-Segment Display (A1P)
A3P	Printed Circuit Board (inv)	M1C	Motor (Compressor)	V1R	Power Module (A3P) (A4P)
A4P	Printed Circuit Board (fan)	M1F	Motor (Fan)	V2R	Power Module (A3P)
A5P	Printed Circuit Board (sub)	PS	Switching Power Supply (A1P) (A3P) (A5P)	X1A, X2A	Connector (M1F)
BS1~3	Push Button Switch (A1P) (Mode, Set, Return)	Q1DI	Field Earth Leakage Breaker	X3A	Connector (check the residual charge)
		Q1RP	Phase Reversal Detect Circuit (A1P)	X1M	Terminal Block (Power Supply)
C47, C48	Capacitor (A3P)	R1T	Thermistor (Air) (A1P)	X1M	Terminal Block (Control) (A1P)
DS1, DS2	DIP Switch (A1P)	R21T	Thermistor (M1C Discharge) (A1P)	Y1E	Electronic Expansion Valve (Heat Exc. Upper)
E1HC	Crankcase Heater	R3T	Thermistor (Liq. Main) (A1P)	Y2E	Electronic Expansion Valve (Subcool Heat Exc.)
F1U, F2U	Fuse (T, 3,15A , 250V) (A1P)	R4T	Thermistor (Heat Exc. Liq. Upper) (A1P)	Y3E	Electronic Expansion Valve (Heat Exc. Lower)
F1U	Fuse (T, 3,15A , 250V) (A5P)	R5T	Thermistor (Heat Exc. Liq. Lower) (A1P)	Y4E	Electronic Expansion Valve (Receiver Gas)
F101U	Fuse (A4P)	R6T	Thermistor (Subcool Heat Exc. Gas) (A1P)	Y5E	Electronic Expansion Valve (Inverter Cooling)
F3U	Field Fuse	R7T	Thermistor (Subcool Heat Exc. Liq) (A1P)	Y6E	Electronic Expansion Valve (Auto Charge)
F410U~F412U	Fuse (A2P)	R8T	Thermistor (Heat Exc. Gas Upper) (A1P)	Y11S	Solenoid Valve (M1C Oil Return)
F601U	Fuse (A3P)	R9T	Thermistor (Heat Exc. Gas Lower) (A1P)	Y2S	Solenoid Valve (Liq. Pipe)
HAP	Pilotlamp (A1P) (A5P) (Service monitor-green)	R10T	Thermistor (Suction) (A1P)	Y3S	Solenoid Valve (HP/LP Gas Pipe)
		R11T	Thermistor (Heat Exc. Deicer) (A5P)	Y4S	Solenoid Valve (Heat Exc. Lower)
K1M	Magnetic Contactor (A3P)	R12T	Thermistor (Suction Compressor) (A5P)	Y5S	Solenoid Valve (Heat Exc. Upper)
K1R	Magnetic Relay (A3P)	R13T	Thermistor (Receiver Gas) (A5P)	Z1C~Z6C	Noise Filter (Ferrite Core)
K3R	Magnetic Relay (A3P)	R14T	Thermistor (Auto Charge) (A5P)	Z1F	Noise Filter (A2P) (With Surge Absorber)
K3R	Magnetic Relay (Y11S) (A1P)	R15T	Thermistor (Compressor Body) (A1P)		
K6R	Magnetic Relay (Optional Bottomplate Heater) (A1P)	R1	Resistor (Current Limiting) (A3P)		
		R24	Resistor (Current Sensor) (A4P)		
K7R	Magnetic Relay (E1HC) (A1P)	R313	Resistor (Current Sensor) (A3P)	Connector for Optional Accessories	
K9R	Magnetic Relay (Y3S) (A1P)	R865, R867	Resistor (A3P)	X10A	Connector (Bottomplate Heater)
K11R	Magnetic Relay (Y2S) (A1P)	S1NPH	Pressure Sensor (High)		
K12R	Magnetic Relay (Y4S) (A1P)	S1NPL	Pressure Sensor (Low)		

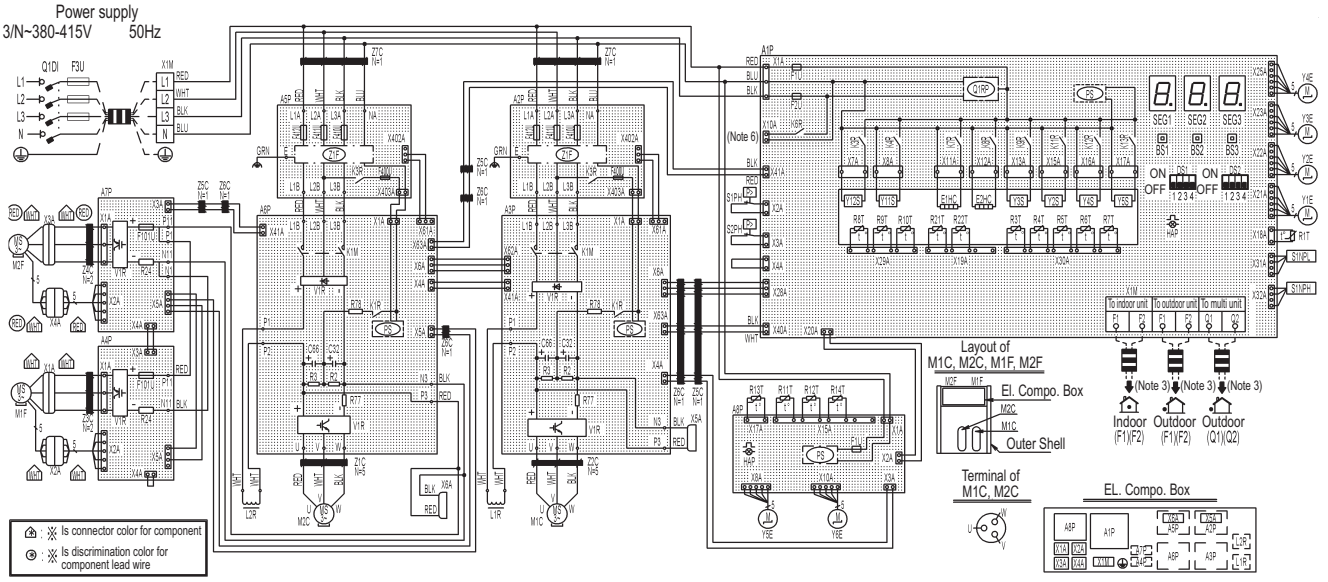
NOTES

1. This wiring diagram applies only to the outdoor unit.
2. :field wiring, : terminal block, : connector, : terminal, : Protective Earth (Screw).
3. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual.
4. When operating, don't shortcircuit the protection device (S1PH)
5. Colors BLK:BLACK; RED: RED; BLU; BLUE; WHT: WHITE; GRN: GREEN.
6. When using the optional accessory, refer to the installation manual of the optional accessory.

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

REYQ14,8T7Y1B



2D087542A

A1P	Printed Circuit Board (main)	K13R	Magnetic Relay (Y5S) (A1P)	V1R	Power Module (A3P) (A6P)
A2P, A5P	Printed Circuit Board (noise filter)	L1R~L2R	Reactor	V1R	Power Module (A4P (A7P)
A3P, A6P	Printed Circuit Board (inv)	M1C, M2C	Motor (Compressor)	X1A~4A	Connector (M1F, M2F)
A4P, A7P	Printed Circuit Board (fan)	M1F, M2F	Motor (Fan)	X5A, X6A	Connector (Residual Charge Check)
A8P	Printed Circuit Board (sub)	PS	Switching Power Supply	X1M	Terminal Block (Power Supply)
BS1~3	Push Button Switch (A1P)		(A1P) (A3P) (A6P) (A8P)	X1M	Terminal Block (Control) (A1P)
	(Mode, Set, Return)	Q1DI	Field Earth Leakage Breaker	Y1E	Electronic Expansion Valve (Heat Exc. Upper)
C32, C66	Capacitor (A3P) (A6P)	Q1RP	Phase Reversal Detect Circuit (A1P)	Y2E	Electronic Expansion Valve
DS1, DS2	DIP Switch (A1P)	R2, R3	Resistor (A3P) (A6P)		(Subcool Heat Exc.)
E1HC, E2HC	Crankcase Heater	R24	Resistor (Current Sensor) (A4P) (A7P)	Y3E	Electronic Expansion Valve (Heat Exc. Lower)
F1U, F2U	Fuse (T, 3,15A , 250V) (A1P)	R77	Resistor (Current Sensor) (A3P) (A6P)	Y4E	Electronic Expansion Valve (Receiver Gas)
F1U	Fuse (T, 3,15A , 250V) (A8P)	R78	Resistor (Current Limiting) (A3P) (A6P)	Y5E	Electronic Expansion Valve (Inverter Cooling)
F3U	Field Fuse	R1T	Thermistor (Air) (A1P)	Y6E	Electronic Expansion Valve (Auto Charge)
F101U	Fuse (A4P) (A7P)	R21T, R22T	Thermistor (M1C, M2C Discharge) (A1P)	Y11S	Solenoid Valve (Oil Return M1C)
F400U	Fuse (A2P) (A5P)	R3T	Thermistor (Liq. Main) (A1P)	Y12S	Solenoid Valve (Oil Return M2C)
F410U~F412U	Fuse (A2P) (A5P)	R4T	Thermistor (Heat Exc. Liq. Upper) (A1P)	Y2S	Solenoid Valve (Liq. Pipe)
HAP	Pilotlamp (A1P) (A8P)	R5T	Thermistor (Heat Exc. Liq. Lower) (A1P)	Y3S	Solenoid Valve (HP/LP Gas Pipe)
	(Service monitor-green)	R6T	Thermistor (Subcool Heat Exc. Gas) (A1P)	Y4S	Solenoid Valve (Heat Exc. Lower)
K1M	Magnetic Contactor (A3P) (A6P)	R7T	Thermistor (Subcool Heat Exc. Liq) (A1P)	Y5S	Solenoid Valve (Heat Exc. Upper)
K1R	Magnetic Relay (A3P) (A6P)	R8T	Thermistor (Heat Exc. Gas Upper) (A1P)	Z1C~Z7C	Noise Filter (Ferrite Core)
K3R	Magnetic Relay (A2P) (A5P)	R9T	Thermistor (Heat Exc. Gas Lower) (A1P)	Z1F	Noise Filter (A2P) (A5P)
K3R	Magnetic Relay (Y11S) (A1P)	R10T	Thermistor (Suction) (A1P)		(witch surge absorber)
K4R	Magnetic Relay (Y12S) (A1P)	R11T	Thermistor (Heat Exc. Deicer) (A8P)		
K6R	Magnetic Relay (A1P)	R12T	Thermistor (Suction compressor) (A8P)	Connector for Optional Accessories	
	(Optional Bottomplate Heater)	R13T	Thermistor (Receiver Gas) (A8P)	X10A	Connector (Bottom Plate Heater)
K7R	Magnetic Relay (E1HC) (A1P)	R14T	Thermistor (Auto Charge) (A8P)		
K8R	Magnetic Relay (E2HC) (A1P)	S1NPH	Pressure Sensor (High)		
K9R	Magnetic Relay (Y3S) (A1P)	S1NPL	Pressure Sensor (Low)		
K11R	Magnetic Relay (Y2S) (A1P)	S1PH, S2PH	Pressure Switch (High)		
K12R	Magnetic Relay (Y4S) (A1P)	SEG1~SEG3	7-Segnment Display (A1P)		

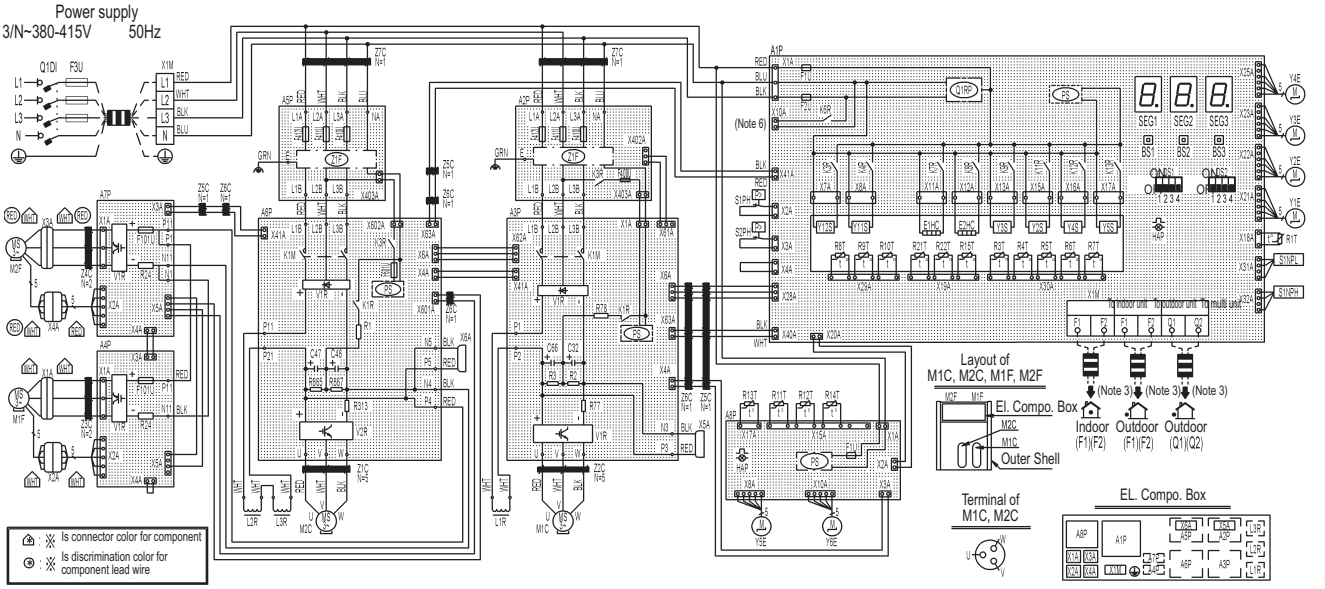
NOTES

1. This wiring diagram applies only to the outdoor unit.
2. ▬▬ :field wiring, ☐☐☐☐ : terminal block, ⊙⊙ : connector, –○– : terminal, ⏚ : Protective Earth (Screw).
3. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual.
4. When operating, don't shortcircuit the protection devices (S1PH,S2PH)
5. Colours BLK:BLACK; RED: RED; BLU; BLUE; WHT: WHITE; GRN: GREEN.
6. When using the optional accessory, refer to the installation manual of the optional accessory.

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

REYQ18,20T7Y1B



2D087543A

A1P	Printed Circuit Board (main)	PS	Switching Power Supply (A1P) (A3P) (A6P) (A8P)	X1M	Terminal Block (Power Supply)
A2P, A5P	Printed Circuit Board (noise filter)			X1M	Terminal Block (Control) (A1P)
A3P, A6P	Printed Circuit Board (inv)	Q1DI	Field Earth Leakage Breaker	Y1E	Electronic Expansion Valve (Heat Exc. Upper)
A4P, A7P	Printed Circuit Board (fan)	Q1RP	Phase Reversal Detect Circuit (A1P)	Y2E	Electronic Expansion Valve (Subcool Heat Exc.)
A8P	Printed Circuit Board (sub)	R1	Resistor (Current Limiting) (A6P)		
BS1~3	Push Button Switch (A1P) (Mode, Set, Return)	R2, R3	Resistor (A3P)	Y3E	Electronic Expansion Valve (Heat Exc. Lower)
		R24	Resistor (Current Sensor) (A4P) (A7P)	Y4E	Electronic Expansion Valve (Receiver Gas)
C32, C66	Capacitor (A3P)	R77	Resistor (Current Sensor) (A3P)		
C47, C48	Capacitor (A6P)	R78	Resistor (Current Limiting) (A3P)	Y5E	Electronic Expansion Valve (Inverter Cooling)
DS1, DS2	DIP Switch (A1P)	R313	Resistor (Current Sensor) (A6P)	Y6E	Electronic Expansion Valve (Auto Charge)
E1HC, E2HC	Crankcase Heater	R865, R867	Resistor (A6P)	Y11S	Solenoid Valve (Oil Return M1C)
F1U, F2U	Fuse (T, 3,15A , 250V) (A1P) (A8P)	R1T	Thermistor (Air) (A1P)	Y12S	Solenoid Valve (Oil Return M2C)
F3U	Field Fuse	R21T, R22T	Thermistor (M1C, M2C Discharge) (A1P)	Y2S	Solenoid Valve (Liq. Pipe)
F101U	Fuse (A4P) (A7P)	R3T	Thermistor (Liq. Main) (A1P)	Y3S	Solenoid Valve (HP/LP Gas Pipe)
F400U	Fuse (A2P)	R4T	Thermistor (Heat Exc. Liq. Upper) (A1P)	Y4S	Solenoid Valve (Heat Exc. Lower)
F410U~F412U	Fuse (A2P) (A5P)	R5T	Thermistor (Heat Exc. Liq. Lower) (A1P)	Y5S	Solenoid Valve (Heat Exc. Upper)
F601U	Fuse (A6P)	R6T	Thermistor (Subcool Heat Exc. Gas) (A1P)	Z1C~Z7C	Noise Filter (Ferrite Core)
HAP	Pilotlamp (A1P) (A8P) (Service monitor-green)	R7T	Thermistor (Subcool Heat Exc. Liq) (A1P)	Z1F	Noise Filter (A2P) (A5P) (witch surge absorb)
		R8T	Thermistor (Heat Exc. Gas Upper) (A1P)		
K1M	Magnetic Contactor (A3P) (A6P)	R9T	Thermistor (Heat Exc. Gas Lower) (A1P)		
K1R	Magnetic Relay (A3P) (A6P)	R10T	Thermistor (Suction) (A1P)	Connector for Optional Accessories	
K3R	Magnetic Relay (A2P) (A6P)	R11T	Thermistor (Heat Exc. Deicer) (A8P)	X10A	Connector (Bottomplate Heater)
K3R	Magnetic Relay (Y11S) (A1P)	R12T	Thermistor (Suction Compressor) (A8P)		
K4R	Magnetic Relay (Y12S) (A1P)	R13T	Thermistor (Receiver Gas) (A8P)		
K6R	Magnetic Relay (A1P) (Optional Bottomplate Heater)	R14T	Thermistor (Auto Charge) (A8P)		
		R15T	Thermistor (Compressor Body) (A1P)		
K7R	Magnetic Relay (E1HC) (A1P)	S1NPH	Pressure Sensor (High)		
K8R	Magnetic Relay (E2HC) (A1P)	S1NPL	Pressure Sensor (Low)		
K9R	Magnetic Relay (Y3S) (A1P)	S1PH, S2PH	Pressure Switch (High)		
K11R	Magnetic Relay (Y2S) (A1P)	SEG1~SEG3	7-Segnment Display (A1P)		
K12R	Magnetic Relay (Y4S) (A1P)	V1R	Power Module (A3P) (A6P)		
K13R	Magnetic Relay (Y5S) (A1P)	V1R	Power Module (A4P (A7P)		
L1R~L3R	Reactor	V2R	Power Module (A6P)		
M1C, M2C	Motor (Compressor)	X1A~4A	Connector (M1F, M2F)		
M1F, M2F	Motor (Fan)	X5A, X6A	Connector (Residual Charge Check)		

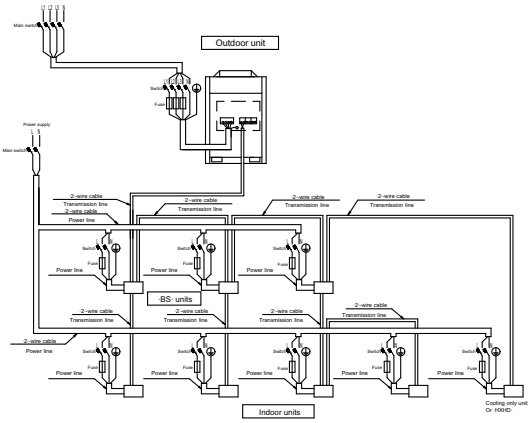
NOTES

1. This wiring diagram applies only to the outdoor unit.
2. ⊏▮▮⊐ :field wiring, ☐☐☐☐ : terminal block, ⊙⊙ : connector, –○–: terminal, ⏚ : Protective Earth (Screw).
3. For connection wiring to indoor-outdoor transmission F1-F2, outdoor-outdoor transmission F1-F2, outdoor-multi transmission Q1-Q2, refer to the installation manual.
4. When operating, don't shortcircuit the protection devices (S1PH,S2PH)
5. Colours BLK:BLACK; RED: RED; BLU; BLUE; WHT: WHITE; GRN: GREEN.
6. When using the optional accessory, refer to the installation manual of the optional accessory.

10 External connection diagrams

10 - 1 External Connection Diagrams

REYQ-T

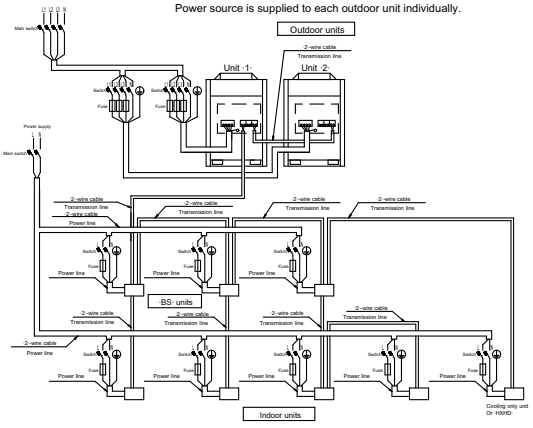


1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
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 to switch to (if necessary) immediately interrupt all the system's power sources.
10. 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.
11. Install an earth leakage circuit breaker.

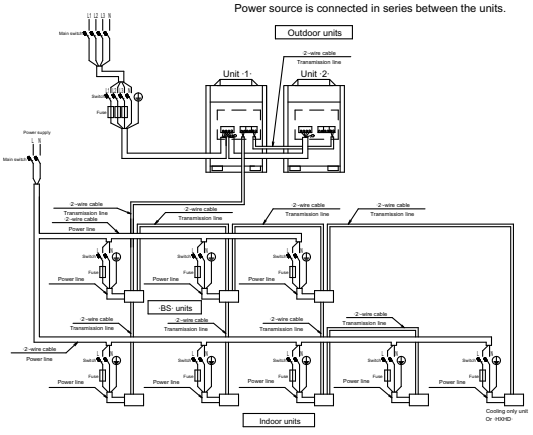
3D088095

REYQ-T

Power source is supplied to each outdoor unit individually.



Power source is connected in series between the units.



1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the 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.
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 to switch to (if necessary) immediately interrupt all the system's power sources.
10. 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.
11. Install an earth leakage circuit breaker.
12. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.

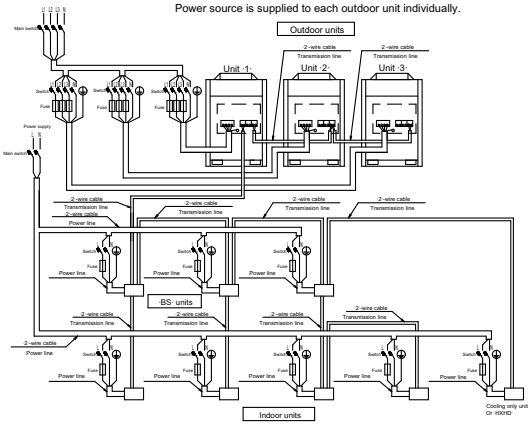
3D088094

10 External connection diagrams

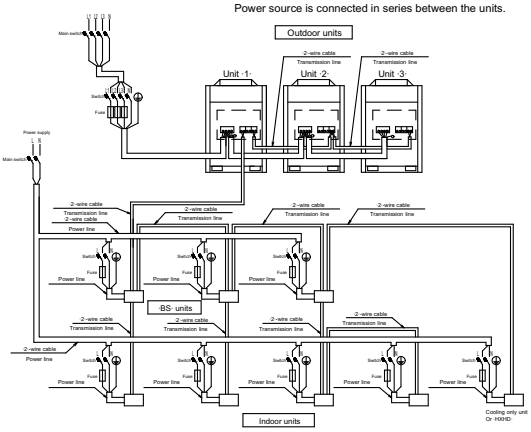
10 - 1 External Connection Diagrams

REYQ-T

Power source is supplied to each outdoor unit individually.



Power source is connected in series between the units.



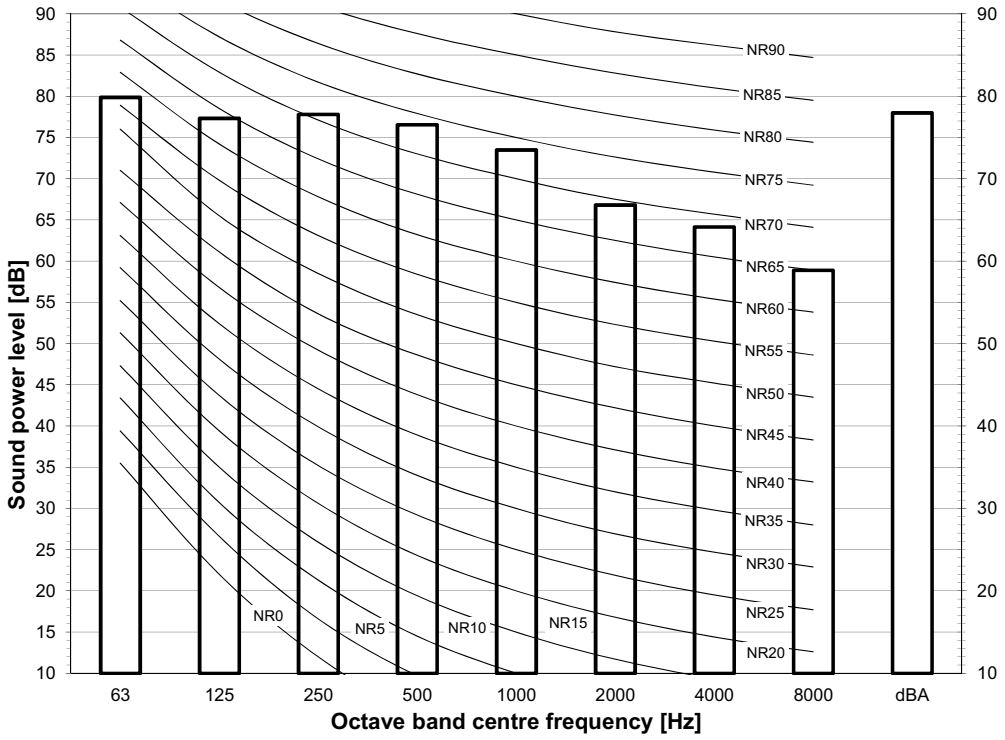
1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
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 to switch to (if necessary) immediately interrupt all the system's power sources.
10. 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.
11. Install an earth leakage circuit breaker.
12. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.

3D088016

11 Sound data

11 - 1 Sound Power Spectrum

REYQ8T7Y1B

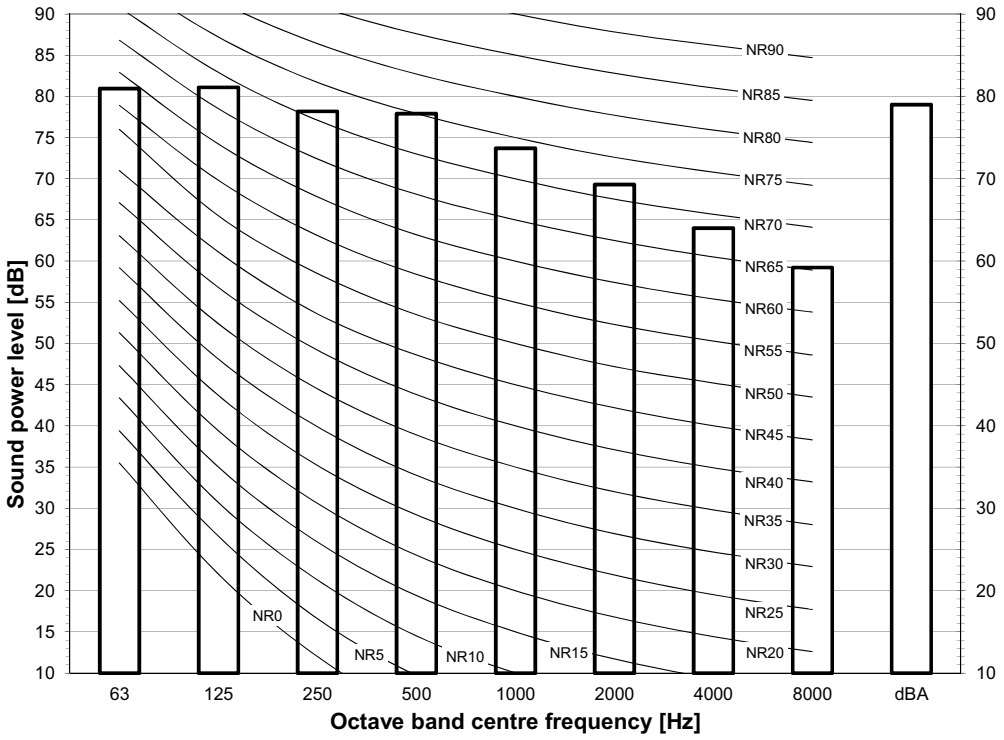


Notes

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

3D079537D

REYQ10T7Y1B



Notes

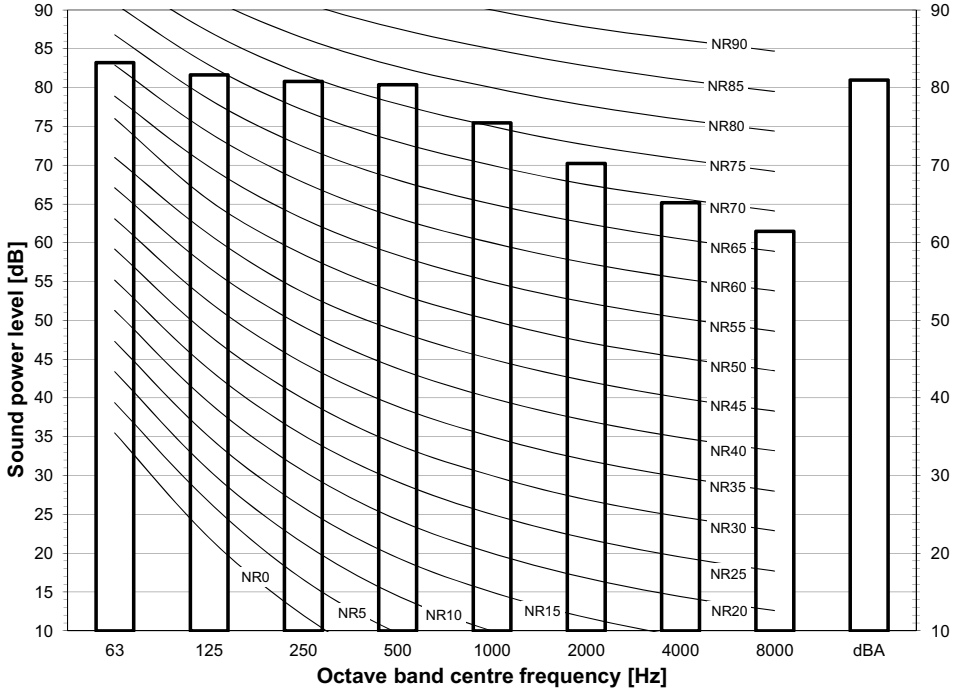
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D079908D

11 Sound data

11 - 1 Sound Power Spectrum

REYQ12T7Y1B

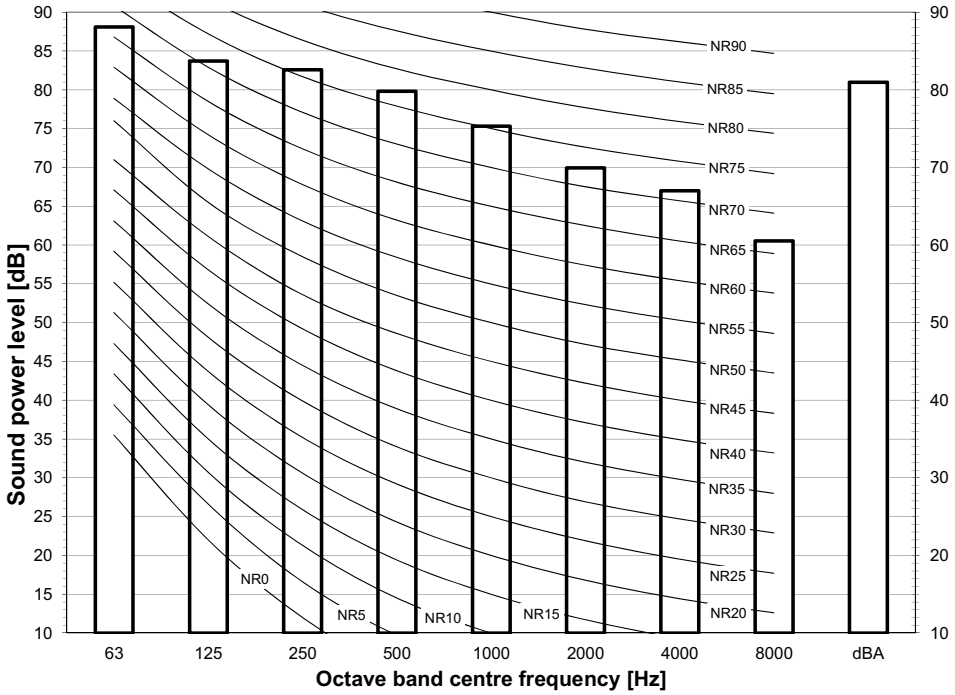


Notes

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

3D079909D

REYQ14T7Y1B



Notes

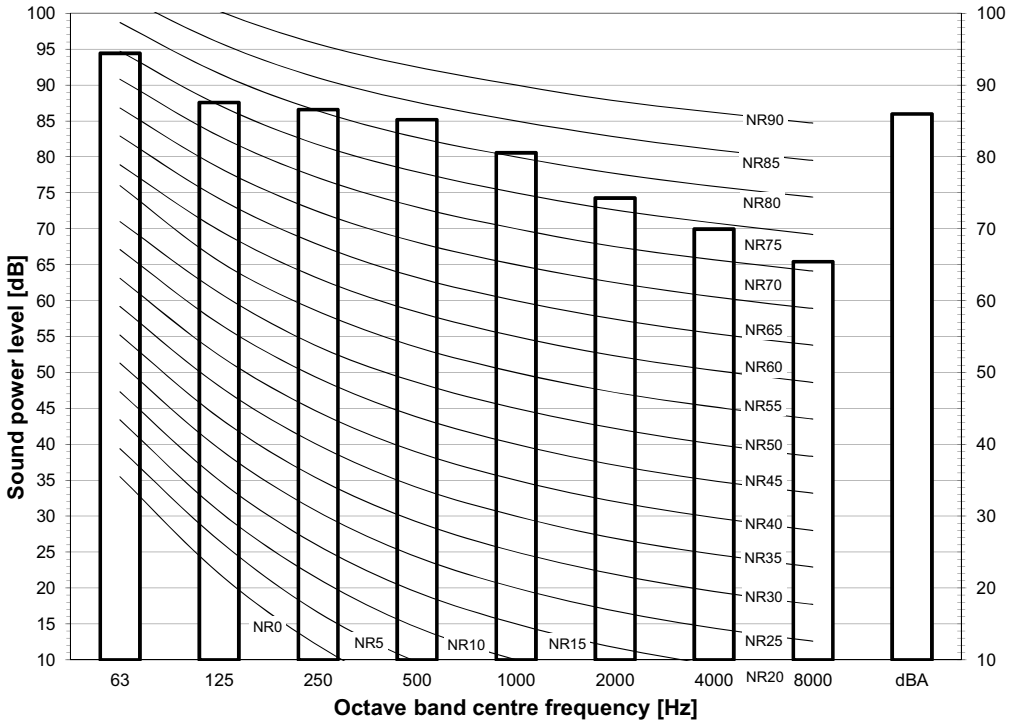
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D079910D

11 Sound data

11 - 1 Sound Power Spectrum

REYQ16T7Y1B

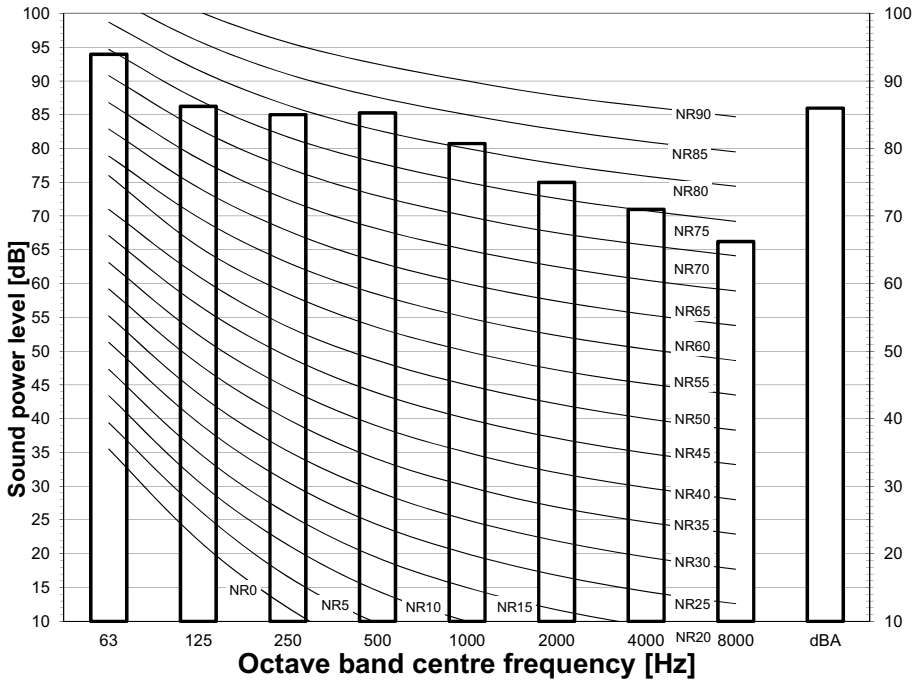


Notes

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

3D079911D

REYQ18T7Y1B



Notes

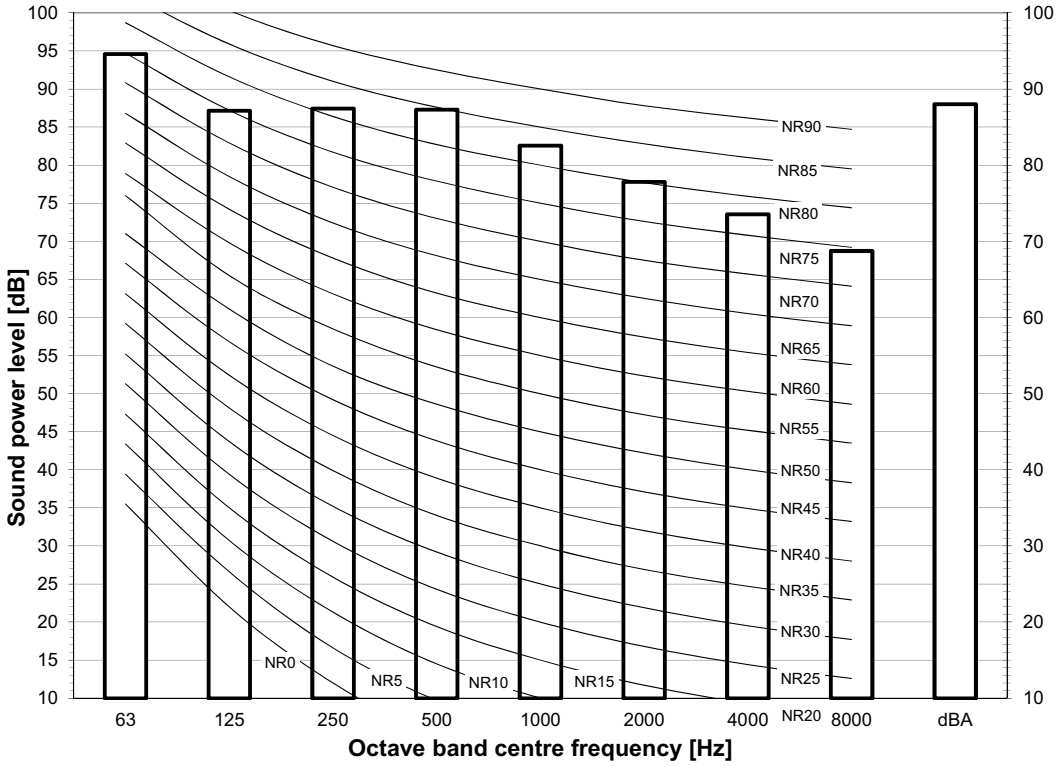
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D079912D

11 Sound data

11 - 1 Sound Power Spectrum

REYQ20T7Y1B



Notes

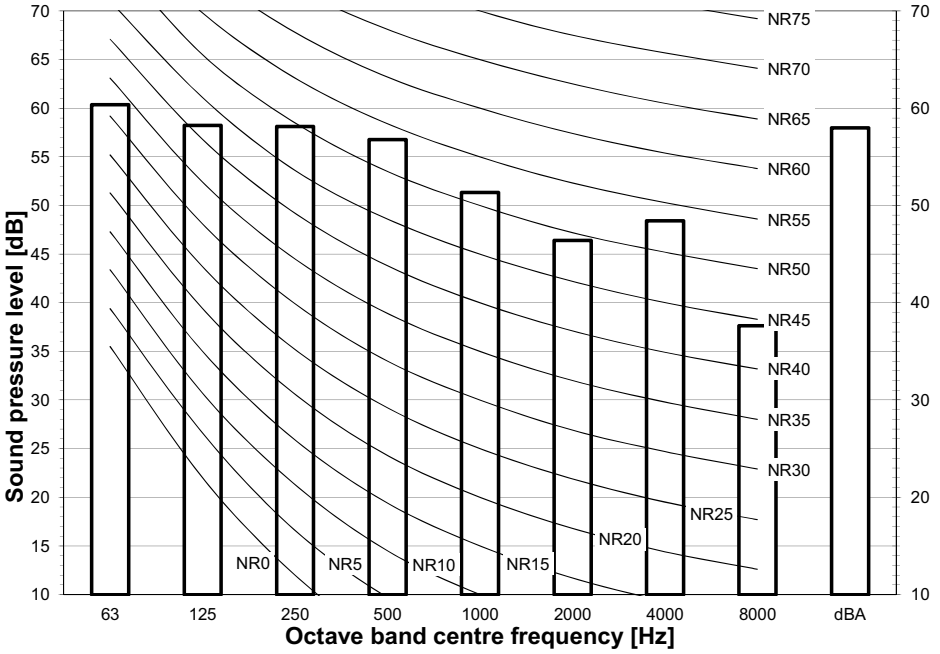
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D079913D

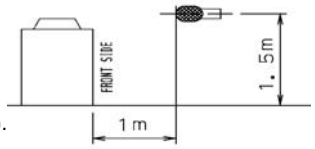
11 Sound data

11 - 2 Sound Pressure Spectrum

REYQ8T7Y1B



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



3D079536D

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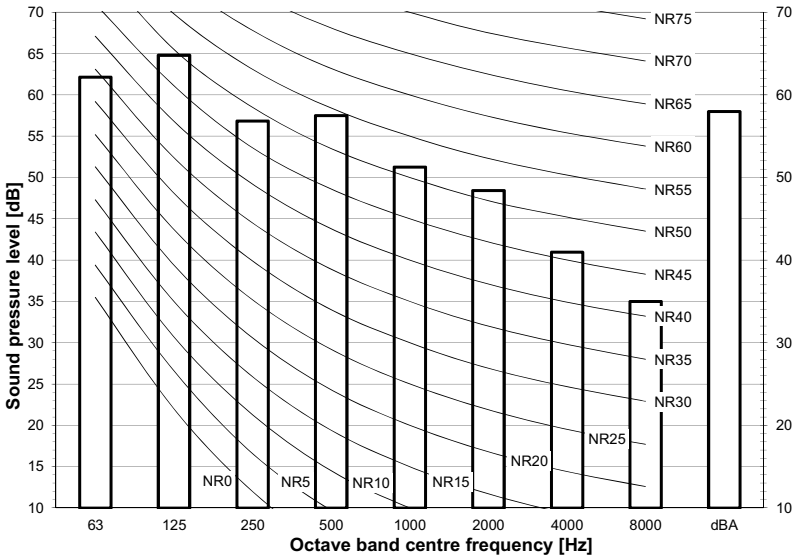
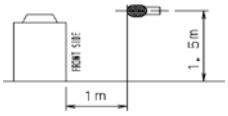


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

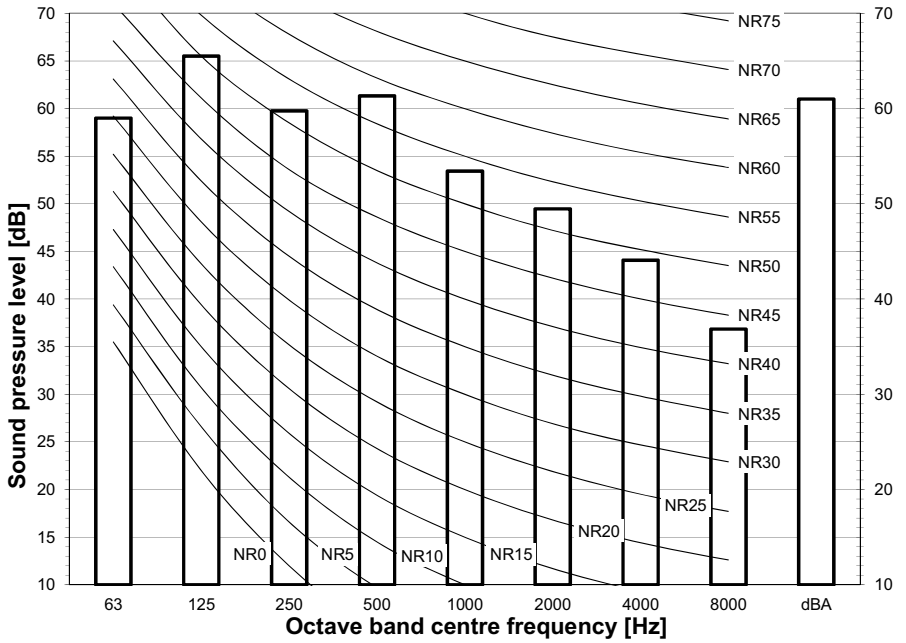


3D079902D

11 Sound data

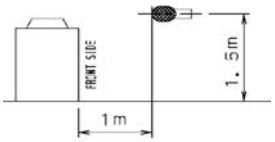
11 - 2 Sound Pressure Spectrum

REYQ12T7Y1B



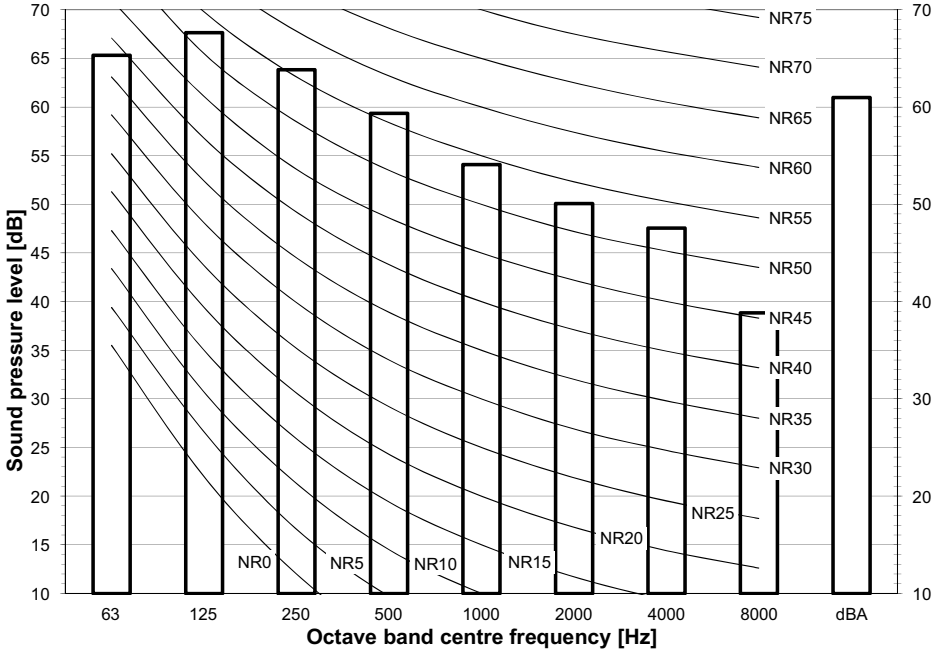
Notes

- 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



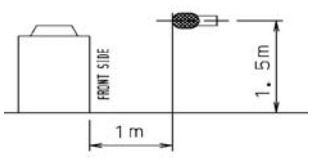
3D079903D

REYQ14T7Y1B



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

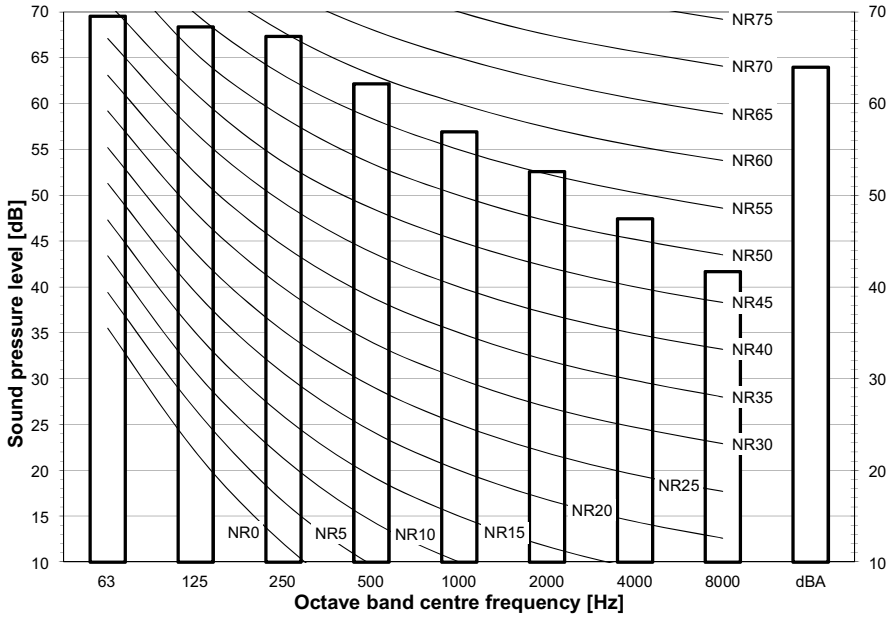


3D079904D

11 Sound data

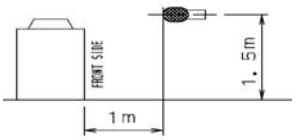
11 - 2 Sound Pressure Spectrum

REYQ16T7Y1B



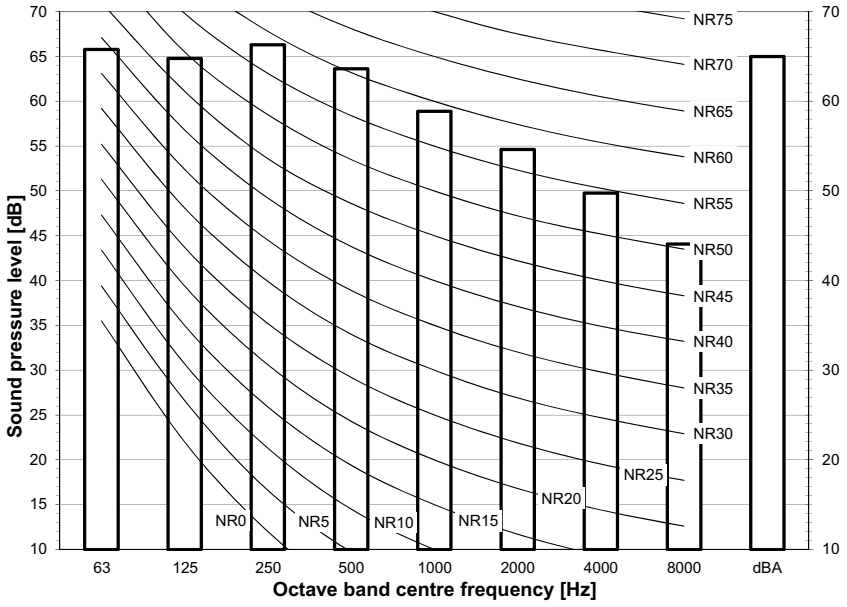
Notes

- 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



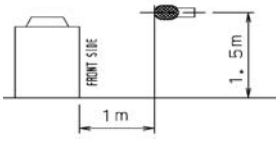
3D079905D

REYQ18T7Y1B



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

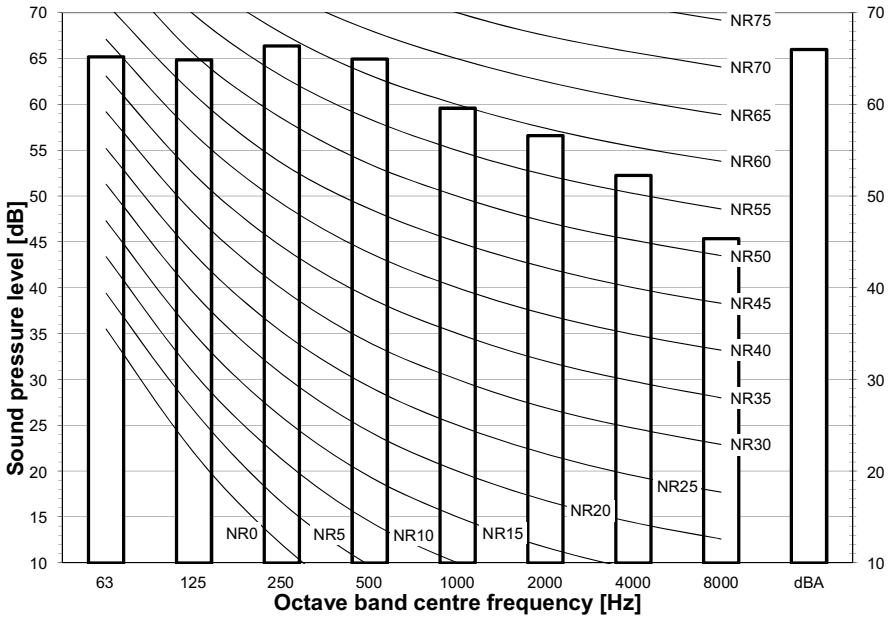


3D079906D

11 Sound data

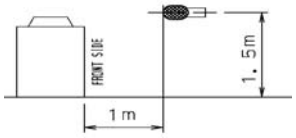
11 - 2 Sound Pressure Spectrum

REYQ20T7Y1B



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



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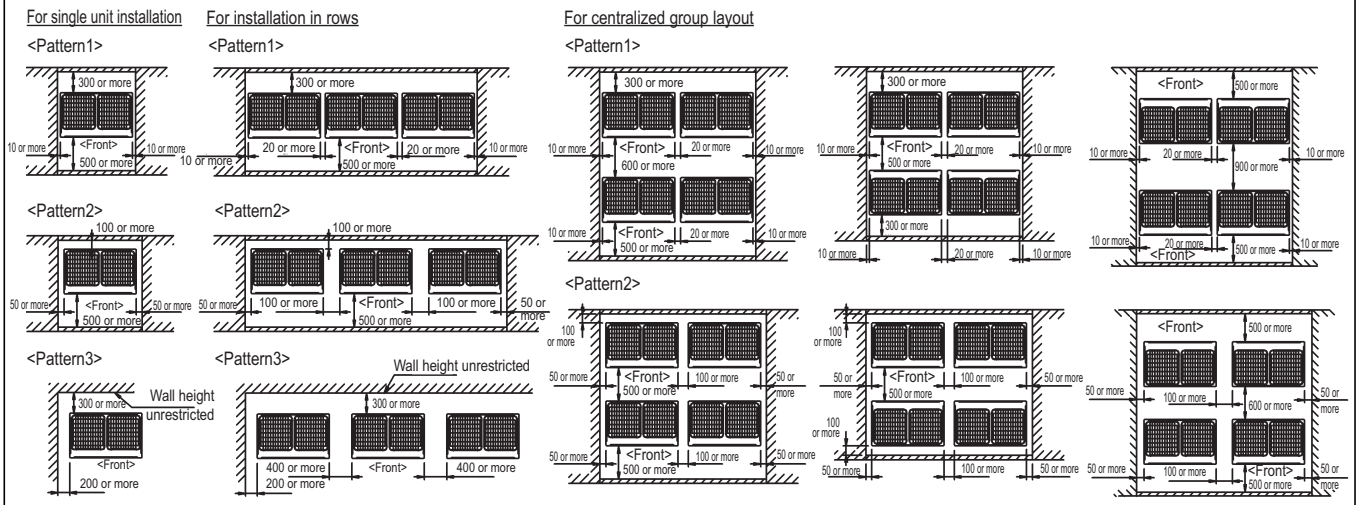
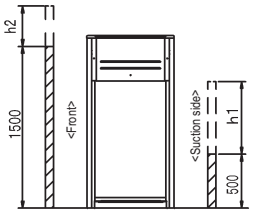
12 Installation

12 - 1 Installation Method

REYQ-T



<Unit: mm>



NOTES

1. Heights of walls in case of Patterns 1 and 2:
   Front: 1500mm
   Suction side: 500mm
   Side: Height unrestricted
   Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature.
   When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability because of much generation load of heat in all outdoor units, take the suction side space more broadly than the space as shown in this drawing.
2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service space respectively as shown in the figure on the right.
3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

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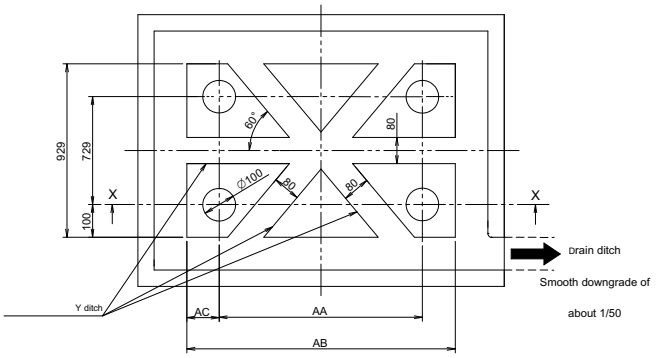
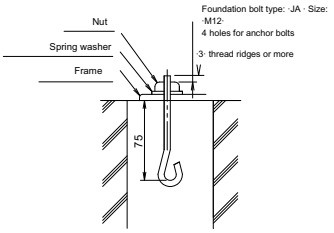
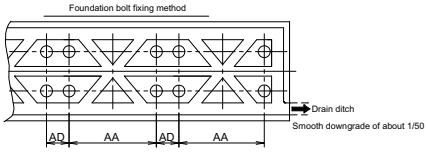
12 Installation

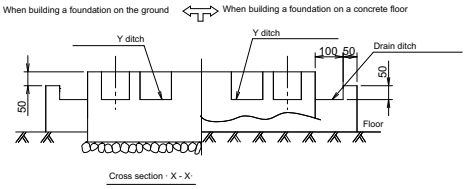
12 - 2 Fixation and Foundation of Units

REYQ-T









For multi-unit installation

Model	AA	AB	AC	AD
RYYQ8-12T RYMQ8-12T RXYQ8-12T RXYQQ8-12T REMQ5T/REYQ8-12T RXYTQ8T	766	992	113	185
RYYQ14-20T RYMQ14-20T RXYQ14-20T RXYQQ14-20T REYQ14-20T RXYTQ10-16T	1076	1076		
RXYCQ8	497	697	100	160
RXYCQ10-14	792	992		
RXYCQ16-20	1102	1302		

Notes

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.

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12 Installation

12 - 3 Refrigerant Pipe Selection

REYQ-T

VRV4
Heat recovery Piping restrictions

		Maximum piping length			Maximum height difference			Total piping length
		Longest pipe from the outdoor unit or the last multi-putdoor piping branch Actual + Equivalent Maximum: ·(A+B, A+C, A+E, A+F)	Longest pipe after first branch Actual Maximum: ·(B,C,E,F)·	Longest pipe from the outdoor unit to the last multi-outdoor piping Actual / Equivalent Maximum: ·(D)·	Indoor-to-outdoor Outdoor unit higher than indoor unit/ Indoor unit higher than outdoor unit Maximum: ·(H1)·	Indoor-to-indoor Maximum: ·(H2)·	Outdoor-to-outdoor Maximum: ·(H3)·	Piping length
Single outdoor units and standard multi-outdoor-unit combinations > ·20hp·	·VRV ·indoor units only	165/190 m (*3)	40 m (*1)	10/13 m	50 m (*2)	15 m	5 m	1000 m
	Hydrobox unit	135/160 m (*3)	40 m		50/40 m			300 m (*4)/600 m (*5)
	AHU (*6)	165/190 m (*3)	40 m		50/40 m			1000 m
Standard multi-outdoor-unit combinations· ≤ 20hp· and free multi-outdoor-unit combinations	·VRV ·indoor units only	135/160 m (*3)	40 m (*1)	10/13 m	50/40 m (*2)	15 m	5 m	500 m
	Hydrobox unit		40 m		50/40 m			300 m (*4)/500 m (*5)
	AHU (*6)		40 m		50/40 m			500 m

	Maximum piping length	Maximum height difference
	EXV --> AHU: G	EXV --> AHU: H4
AHU (*6)	5 m	5 m

NOTES

1. If all conditions below are met, the limitation can be extended up to 90m
   - 1.1 In case of ·BS1Q · units, the piping length between all indoor units and the multi BS unit is ≤ ·40·m
   - 1.2 In case of multi BS units, the piping length between all indoor units and the multi BS unit is ≤ ·40·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 te the outdoor unit is ≤ ·40·m.
2. If all conditions below are met, the limitation can be extended up to 90m
   - 2.1 If the outdoor units are positioned higher than the indoor units:
     - 2.1.1. Minimum connection ratie: ·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 unit:
     - 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 ratie
       - -40~60m: Minimum connection ratie: ·80%·
       - -60~65m: Minimum connection ratie: ·90% ·
       - -65~80m: Minimum connection ratie: ·100% ·
       - -80~90m: Minimum connection ratie: ·110% ·
3. If the equivalent piping is > ·90·m, size up the main liquid piping.
4. Outdoor unit is ·≤ 20hp ·
5. Outdoor unit is ·> 20hp
6. Mix of ·DX·units and ·AHU's·
7. If there is no branch kit present in the system, the longest pipe after the multi ·BS·unit has to be ≤·40·m.

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12 Installation

12 - 3 Refrigerant Pipe Selection

REYQ-T

VRV4
Heat recovery Piping restrictions

	Total		Allowed capacity			
	Capacity [%]	Maximum indoor unit quantity (*1)	VRV indoor unit	·VRV·indoor unit without ·BS·unit Cooling only (*4)	Hydrobox unit	AHU
·VRV·indoor units only	50~130	64	50~130 %	0~50 %	*Not allowed*	*Not allowed*
·VRV· indoor unit + Hydrobox	50~200 (*2)	32	50~110 %	0~50 %	0~100 %	*Not allowed*
·VRV ·indoor unit + ·AHU's ·	50~110	64	50~110 %	0~50 %	*Not allowed*	0~110 %

NOTES

1. Excluding ·BS ·units and including ·EXV·kits.
2. The total capacity of ·DX ·indoor units and LT Hydrobox units is ·130·%.
3. Other combinations than mentioned in this combination table are prohibited.
4. Cooling-only ·VRV·indoor units cannot be combined with HT Hydrobox units.

Amount of units connectiable to a·BS·unit

	BS1Q10 (*6)	BS1Q16 (*6)	BS1Q25 (*6)	Multi ·BS branch (*6)	Multi ·BS·when 2 branches are combined (*5) (*6) (*5) (*6)
·VRV·indoor units AHU	Maximum·6·units Maximum ·100 ·class	Maximum·8·units Maximum ·160 ·class	Maximum·8·units Maximum ·250 ·class	Maximum·5·units Maximum ·140 ·class	Maximum·5·units Maximum ·250 ·class
LT Hydrobox unit	Maximum ·100 ·class = 1x HXY080	Maximum ·160 ·class = Maximum ·2 x HXY080· Or maximum ·1 x HXY125·	Maximum ·250 ·class = Maximum ·3 x HXY080 · Or maxium ·2 x HXY125 · Or ·HXY125 ·	Maximum ·140 ·class = Maximum ·1 x HXY080· Or maximum ·1 x HXY125·	Maximum ·250 ·class = Maximum ·3 x HXY080· Or maximum ·2 x HXY125· Or ·HXY080 + HXY 125 ·

NOTES

5. When combining ·2·branches, the maximum piping length between the·BS·unit and the indoor unit is ≤ 20m. If the length of this piping is > 20m increase the size of the liquid pipe.
6. When using Hydrobox units, do not combine them with other types of units.

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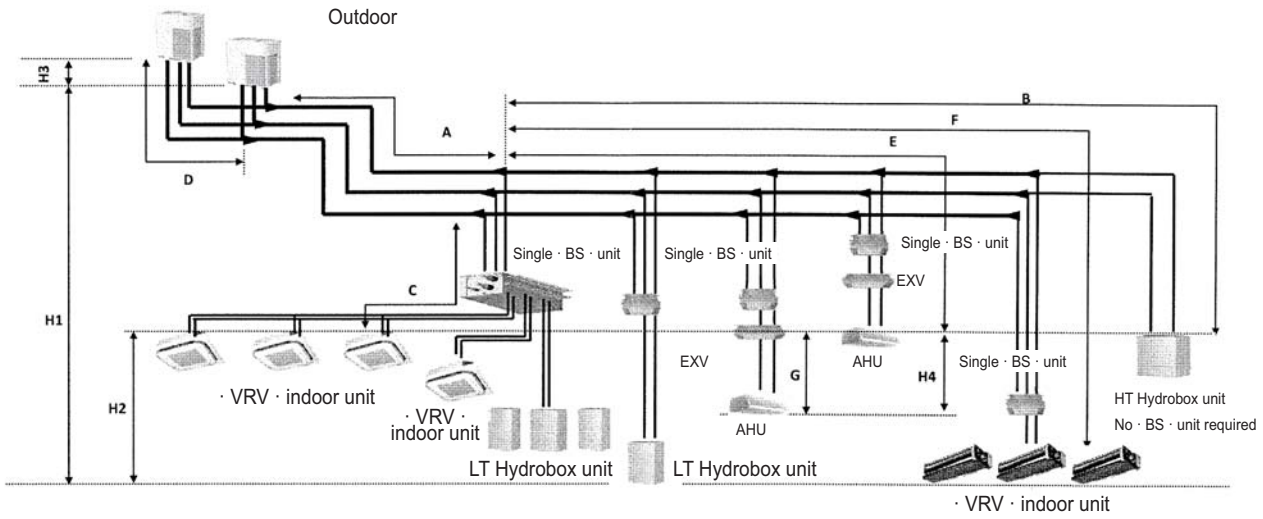
12 Installation

12 - 3 Refrigerant Pipe Selection

REYQ-T



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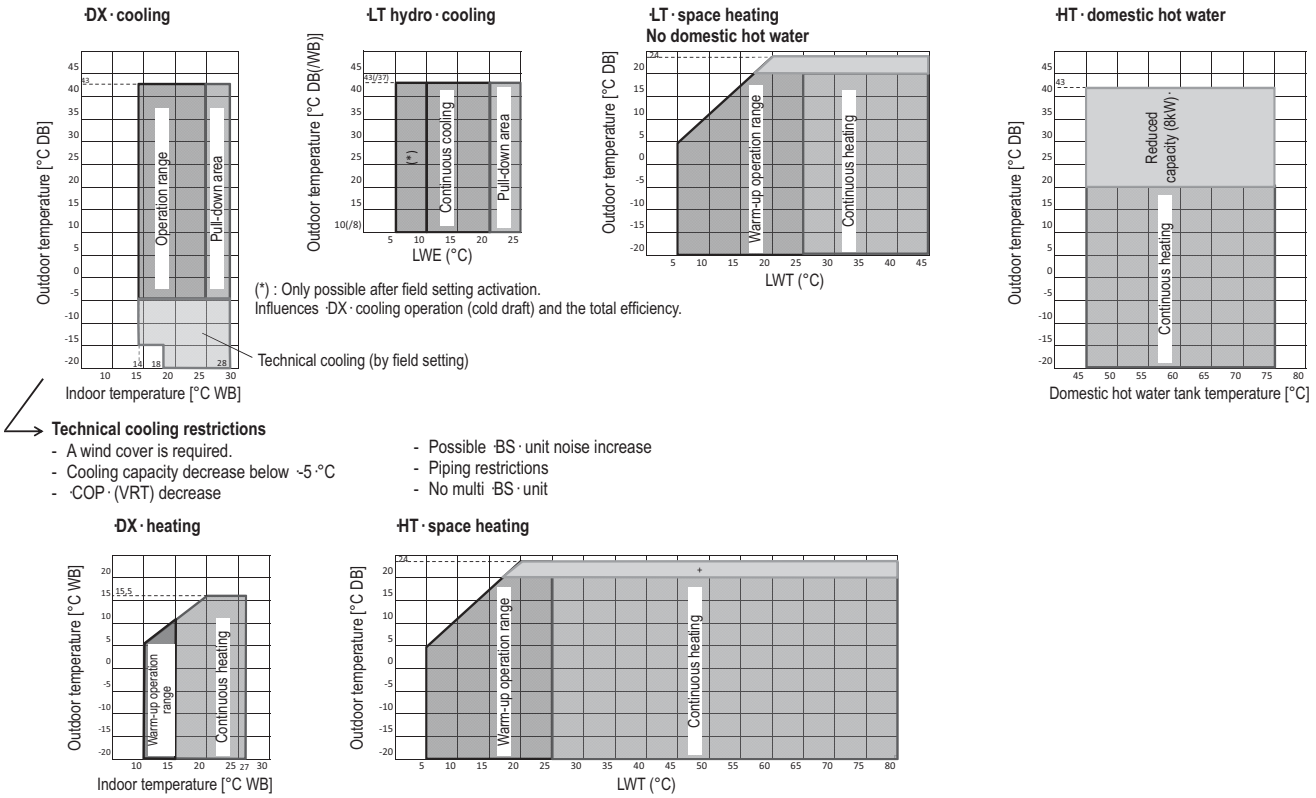
13 Operation range

13 - 1 Operation Range

REYQ-T
REMQ-T



(*) : Only possible after field setting activation.
Influences ·DX· cooling operation (cold draft) and the total efficiency.

Technical cooling (by field setting)

Technical cooling restrictions
- A wind cover is required.
- Cooling capacity decrease below -5·°C
- ·COP· (VRT) decrease
- Possible ·BS· unit noise increase
- Piping restrictions
- No multi ·BS· unit

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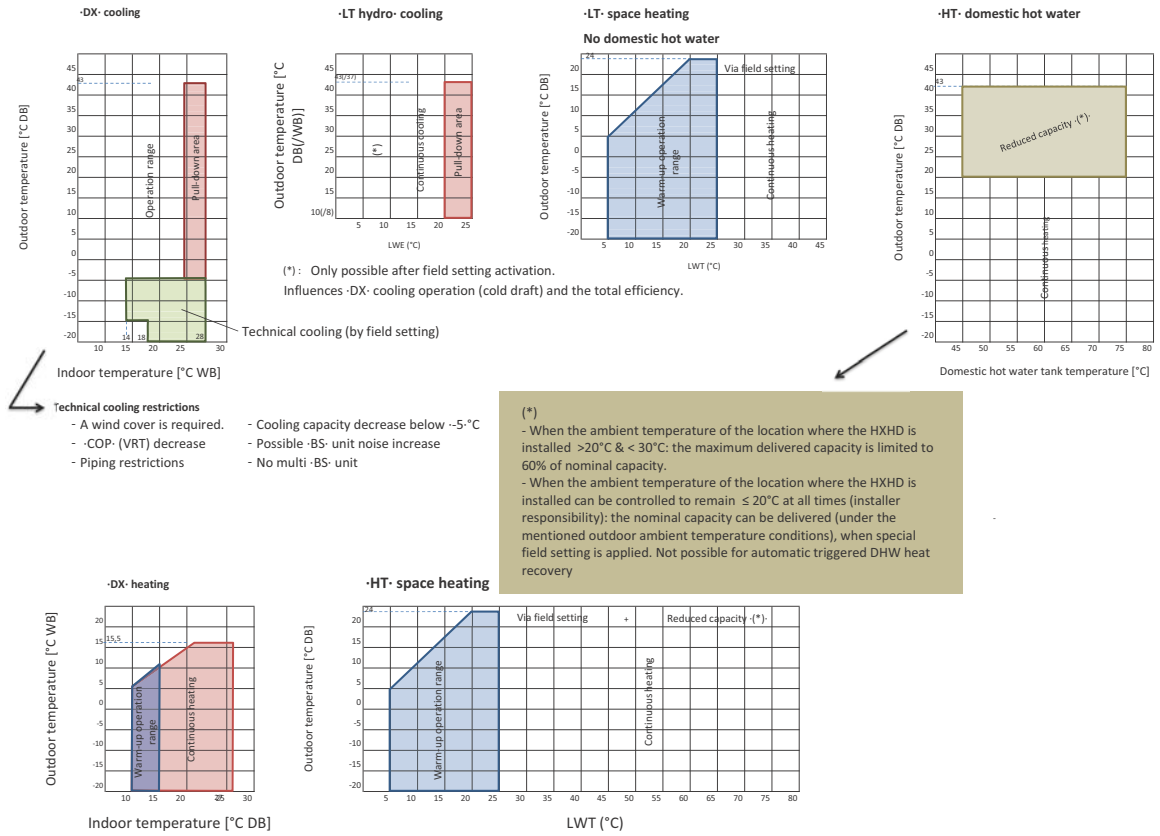
REYQ-T



(*) : Only possible after field setting activation.
Influences ·DX· cooling operation (cold draft) and the total efficiency.

Technical cooling (by field setting)

Technical cooling restrictions
- A wind cover is required.
- ·COP· (VRT) decrease
- Piping restrictions
- Cooling capacity decrease below -5·°C
- Possible ·BS· unit noise increase
- No multi ·BS· unit

(*)
- When the ambient temperature of the location where the HXHD is installed >20°C & < 30°C: the maximum delivered capacity is limited to 60% of nominal capacity.
- When the ambient temperature of the location where the HXHD is installed can be controlled to remain ≤ 20°C at all times (installer responsibility): the nominal capacity can be delivered (under the mentioned outdoor ambient temperature conditions), when special field setting is applied. Not possible for automatic triggered DHW heat recovery

3D088014C

14 Appropriate Indoors

14 - 1 Appropriate Indoors

REYQ-T

REMQ5T **Recommended indoor units for ·REYQ*T* + REMQ5T*· outdoor units**

·· HP	8	10	12	13	14	16	18	20
	4xFXMQ50	4xFXMQ63	6xFXMQ50	3xFXMQ50 3XFXMQ63	1xFXMQ50 5XFXMQ63	4XFXMQ63 2xFXMQ80	3xFXMQ50 5XFXMQ63	2xFXMQ50 6xFXMQ63

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

Appropriate indoor units for ·REYQ*T* + REMQ5T*· 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

Outside the scope of ·ENER LOT21·

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

3D113976

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