DAIKIN

Air Conditioning

SUBMITTAL DATA SHEET

MODEL: Heat Pump 50Hz - RXYQ48AYMV

PROJECT NAME:	
Location:	Approval:
Engineer:	Date
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

FEATURES AND BENEFITS

VRT Smart Control optimally supply only for the needed capacity of indoor units Daikin developed VRT smart control by combining air volume control (VAV: Variable Air Volume) for indoor units with conventional VRT control, which optimizes compressor speed by calculating the required load for the entire system and optimal target refrigerant temperature based on data sent from each indoor unit. Coordination with the air volume control reduces compressor load and minimizes operation loss based on detailed control. VRT smart control ensures energy savings and comfortable air conditioning to meet actual operating conditions.

Automatic refrigerant charge function automatically determines the optimal amount of refrigerant to be charged. This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant. It can also be used again when adding or replacing indoor units or even when changing the layout after installation.

Comfort low operation sound night time quiet operation function for areas with stringent restrictions placed on outdoor sound levels, the outdoor unit can be set for low operation sound during the nighttime to meet sound restrictions. Large airflow, high static pressure and quiet technology.

Compact design with high performance highly integrated heat exchanger, optimized inner design to ensure smooth airflow, electric components were downsized and positioned in the dead space of the bell mouth side to decrease airflow resistance. Sufficient cooling for electrical components High reliability at high ambient temperatures it is possible to keep operation stable even at high ambient temperatures by cooling the inverter power module.

Easy maintenance the electrical components are strategically located on the top which eases the maintenance process. Moreover, the heat exchanger on the front side can be used effectively to improve its performance. Without affecting the fan volume, the electric components are designed to be at the top and this utilizes dead space. This eliminates the problem of suction resistance.

Connection ratio 50% - 200% VRV H series outdoor unit has achieved high external static pressure up to 78.4 Pa, ensuring the efficient heat dissipation and stable operation of equipment in either hierarchical or intensive arrangement.

Simplified commissioning and after-sales service Simplified commissioning and after-sales service VRV H series utilizes 7-segment luminous digital tubes to display system operation information, enabling the operational state to be visually displayed

Wide operation temperature range up to 49˚C goes all the way down to -20°C, while cooling can be performed with outdoor temperatures as high as 49°C.

Automatic sequencing operation During start-up, will be automatically enabled to ensure balance operation of each outdoor unit to improve longevity of equipment and operation stability.

EXTERNAL APPEARANCE

VRV H SERIES

INVERTER R-410A

Variable Refrigerant Temperature

DAIKIN Applied Latin America, L.L.C.
7255 NW Corporate Center Dr. Suite A
Miami, FL 33126 USA
Phone: (305) 716-8631 FAX: (305) 716-8643

DAIKIN

Air Conditioning

SUBMITTAL DATA SHEET

MODEL: Heat Pump 50Hz - RXYQ48AYMV

SPECIFICATIONS

Model Name			**RXYQ48AYMV RXYQ16AYM+RXYQ16AYM+RXYQ16AYM)**
Power supply			3 phase, 380-415/380 V, 50/60 Hz
*1 Cooling capacity		kcal/h	116,000
		Btu/h	461,000
		kW	135
*2 Heating capacity		kcal/h	129
		Btu/h	512
		kW	150
Casing colour			Ivory white (5Y7.5/1)
Dimensions: (H×W×D)		mm	(1,657×1,240×765)+(1,657×1,240×765)+ (1,657×1,240×765)
Heat exchanger			Cross fin coil
Compressor	Type		Hermetically sealed scroll type
	Motor output× Number of units	kW	(3.6×1)+(3.7×1)+(3.6×1)+(3.7×1)+ (3.6×1)+(3.7×1)
	Starting method		Soft start
Fan	Type		Propeller fan
	Motor output	kW	(0.75×2)+(0.75×2)+(0.75×2)
	Airflow rate	m³/min	257+257+257
	Drive		Direct drive
Connecting pipes	Liquid pipe	mm	f19.1 C1220T (Brazing connection)
	Gas pipe	mm	f41.3 C1220T (Brazing connection)
Mass		kg	285+285+285
*3 Sound pressure level		dB(A)	65
Safety devices			High pressure switch, Fan driver overload protector, Over current relay, Inverter overload protector
Capacity control		%	3-100
Refrigerant	Refrigerant name		R410A
	Charge	kg	9.3+9.3+9.3
	Control		Electronic expansion valve
Refrigerator oil			Refer to the nameplate of compressor
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps
Drawing No.	Specifications		—
	Sound level		—

Notes:
*1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
*2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.
*3. Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

DAIKIN Applied Latin America, L.L.C.
7255 NW Corporate Center Dr. Suite A
Miami, FL 33126 USA
Phone: (305) 716-8631 FAX: (305) 716-8643

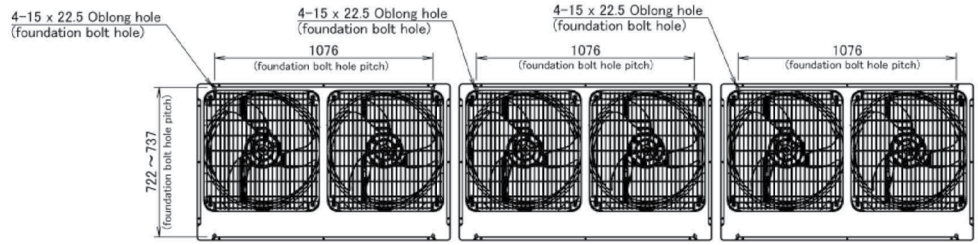
DAIKIN

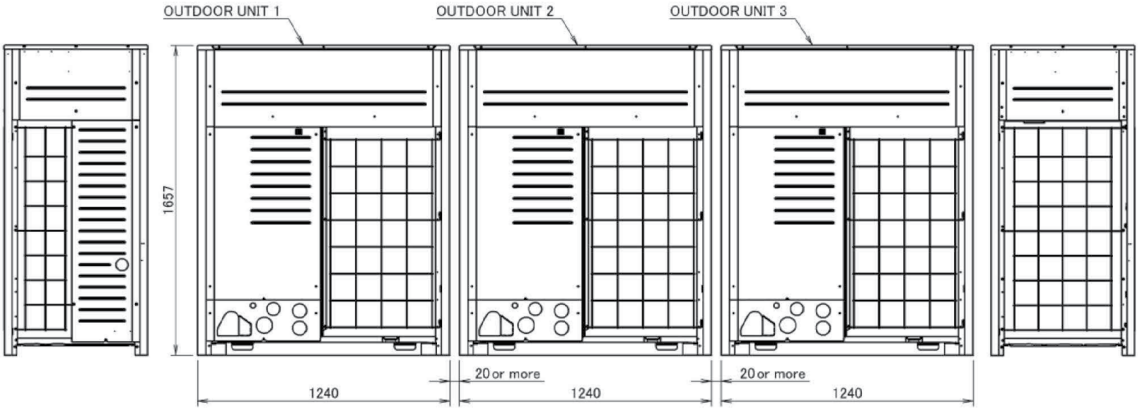
Air Conditioning

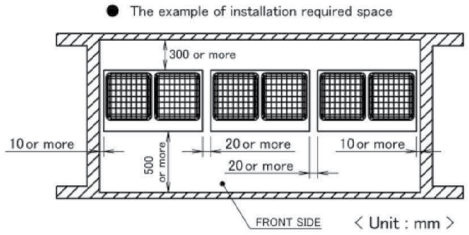
SUBMITTAL DATA SHEET

MODEL: Heat Pump 50Hz - RXYQ48AYMV

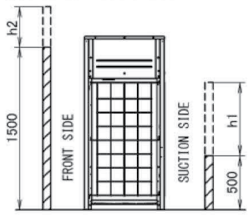
DIMENSIONS







Note:
1. For the wall height of the example for this installation required space area,
   Fornt side: 1500 mm
   Suction side: 500 mm
   Lateral side: No height limitation
   This installation required space example has the standard of cooling operation at outdoor unit air temperature 35℃.
   In case the temperature is over 35℃ of designed outdoor air temperature,or there is much heat load on all outdoor unit which its operation load is over the maximum capacity, make sure to enlarge the suction side space to be more than the value details which specified in drawing.
2. In case of it is over the wall height as specified, make sure to add each dimension h2/2, h1/2 or more to the front side, suction side space as below diagram.
3. When installation, select the most suitable pattern of installation service space adapt to field space by considering pathway, ventilation.
4. For front side space, make sure to install by considering the neccesary space for refrigerant piping construction at the field.



SYSTEM NAME	OUTDOOR UNIT1	DWG. No.	OUTDOOR UNIT2	DWG. No.	OUTDOOR UNIT3	DWG. No.
RXYQ46AYM(A) (V) (N)	RXYQ16AYM	3D111515	RXYQ16AYM	3D111515	RXYQ14AYM	3D111515
RXYQ48AYM(A) (V) (N)	RXYQ16AYM	3D111515	RXYQ16AYM	3D111515	RXYQ16AYM	3D111515
RXYQ50AYM(A) (V) (N)	RXYQ18AYM	3D111515	RXYQ16AYM	3D111515	RXYQ16AYM	3D111515
RXYQ52AYM(A) (V) (N)	RXYQ18AYM	3D111515	RXYQ18AYM	3D111515	RXYQ16AYM	3D111515
RXYQ54AYM(A) (V)	RXYQ18AYM	3D111515	RXYQ18AYM	3D111515	RXYQ18AYM	3D111515
RXYQ56AYM(A) (V)	RXYQ20AYM	3D111515	RXYQ18AYM	3D111515	RXYQ18AYM	3D111515
RXYQ58AYM(A) (V)	RXYQ20AYM	3D111515	RXYQ20AYM	3D111515	RXYQ18AYM	3D111515
RXYQ60AYM(A) (V)	RXYQ20AYM	3D111515	RXYQ20AYM	3D111515	RXYQ20AYM	3D111515

Unit: mm
3D115092

DAIKIN Applied Latin America, L.L.C.
7255 NW Corporate Center Dr. Suite A
Miami, FL 33126 USA
Phone: (305) 716-8631 FAX: (305) 716-8643

Defy your limits
www.daikinlatam.com