DAIKIN

Air Conditioning

SUBMITTAL DATA SHEET

MODEL: Heat Pump 60Hz - RHXYQ54ATL

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

FEATURES AND BENEFITS

Large capacity unit. A single VRV IV outdoor unit (RHXYQ-A) capacity ranges from 8 HP to 22 HP in increments of 2 HP, and the capacity of a triple outdoor unit system is up to 66 HP

Offers compact outdoor units to achieve maximum utilization of expensive space in modern buildings.

Long piping length provides more design flexibility, which can match even large-sized buildings.

High-efficiency DC Inverter Scroll Compressor with high-pressure and low-pressure chambers, which can dramatically enhance compression efficiency by making full use of the compression chamber.

VRT technology, automatically adjusts refrigerant temperature to individual building and climate requirement, thus further improving annual energy efficiency and maintaining comfort.

New generation intelligent control main PC board with SMT packaging that improves the anti-clutter performance and protects your computer boards from the adverse effect of sandy and humid weather.

Chip liquid-cooled isothermal technology which cools the main PC board with low temperature refrigerant and takes away large amount of heat emitted by main PC board.

Double Backup Operation Functions.

More Accurate Test Operation and Stable System.

EXTERNAL APPEARANCE

VRV IV

INVERTER R-410A

Variable Refrigerant Temperature

DAIKIN Applied Latin America, L.L.C.
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SPECIFICATIONS

Model Name			RHXYQ56ATL (RHXYQ10ATL + RHXYQ22ATL + RHXYQ22ATL)
Power Supply			3 phase, 220V, 60 Hz
*1 Cooling Capacity		kcal/h	126,000
		Btu/h	498,000
		kW	146.0
*2 Heating Capacity		kcal/h	146,000
		Btu/h	580,000
		kW	170.0
Casing Color			Ivory White (5Y7.5/1)
Dimensions: (H×W×D)		mm	(1,657×930×765)+(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	(5.7×1)+((5.0+7.4)×1)+((5.0+7.4)×1)
	Starting Method		Soft Start
Fan	Type		Propeller Fan
	Motor Output	kW	(0.75×1)+(0.75×2)+(0.75×2)
	Airflow Rate	m³/min	175+271+271
	Drive		Direct Drive
Connecting Pipes	Liquid Pipe	mm	φ19.1 (Brazing Connection)
	Gas Pipe	mm	φ38.1 (Brazing Connection)
Mass		kg	191+317+317
*3 Sound pressure level		dB(A)	67
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Over Current Relay, Inverter Overload Protector
Defrost Method			Reverse cycle defrosting
Capacity Control		%	3-100
Refrigerant	Refrigerant Name		R410A
	Charge	kg	6.0+8.6+8.6
	Control		Electronic Expansion Valve
Refrigerator Oil			Refer to the nameplate of compressor
Standard Accessories			Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.	Specification		—
	Sound level		—

Notes:
*1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5m, level difference: 0m.
*2. Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5m, level difference: 0m.
*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.
4. Refer to Capacity Tables for the power input (PI) (Compressor + Outdoor fan motor).

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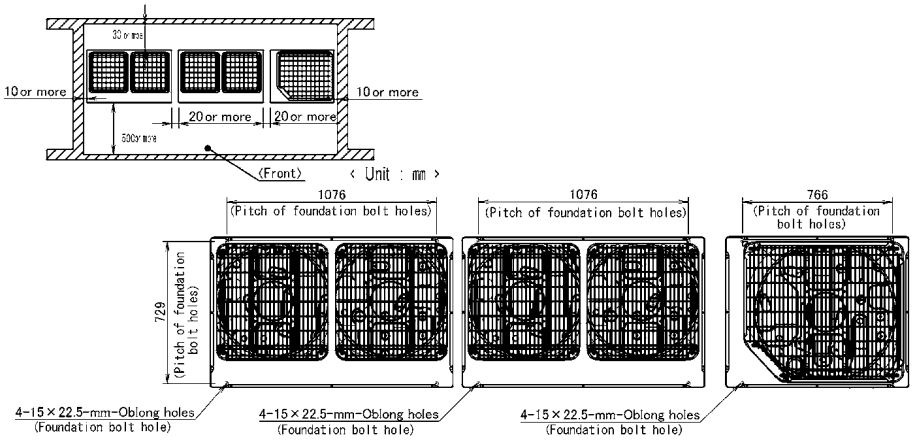
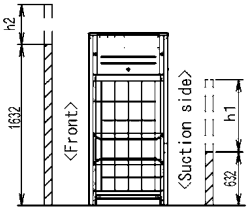
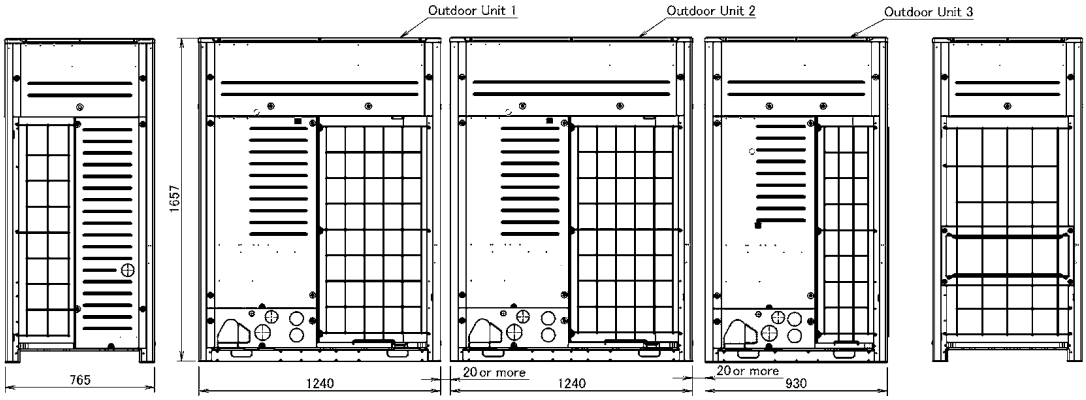
DIMENSIONS



Notes :
1. Heights of walls
   Front : 1632mm
   Suction side : 632mm
   Side : Height unrestricted
   The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35℃.
   The installation space of suction side shown above must be expanded in the following case.
   ・Design outdoor temperature becomes over 35℃.
   ・Operating over Max. operating load (In case of causing a heavy heating load at indoor unit side)
2. If the above wall heights are exceeded then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units the 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 room for a parson to pass between nuits 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.





MODEL	OUTDOOR UNIT 1	DWG. NO.	OUTDOOR UNIT 2	DWG. NO.	OUTDOOR UNIT 3	DWG. NO.
RHXYQ46ATL	RHXYQ22ATL	3D081604	RHXYQ16ATL	3D081604	RHXYQ8ATL	3D081603
RHXYQ48ATL	RHXYQ22ATL	3D081604	RHXYQ16ATL	3D081604	RHXYQ10ATL	3D081603
RHXYQ50ATL	RHXYQ22ATL	3D081604	RHXYQ16ATL	3D081604	RHXYQ12ATL	3D081603
RHXYQ52ATL	RHXYQ22ATL	3D081604	RHXYQ20ATL	3D081604	RHXYQ10ATL	3D081603
RHXYQ54ATL	RHXYQ22ATL	3D081604	RHXYQ22ATL	3D081604	RHXYQ10ATL	3D081603
RHXYQ56ATL	RHXYQ22ATL	3D081604	RHXYQ22ATL	3D081604	RHXYQ12ATL	3D081603
RUXYQ46AB	RUXYQ22AB	3D081604	RUXYQ16AB	3D081604	RUXYQ8AB	3D081603
RUXYQ48AB	RUXYQ22AB	3D081604	RUXYQ16AB	3D081604	RUXYQ10AB	3D081603
RUXYQ50AB	RUXYQ22AB	3D081604	RUXYQ16AB	3D081604	RUXYQ12AB	3D081603
RUXYQ52AB	RUXYQ22AB	3D081604	RUXYQ20AB	3D081604	RUXYQ10AB	3D081603
RUXYQ54AB	RUXYQ22AB	3D081604	RUXYQ22AB	3D081604	RUXYQ10AB	3D081603
RUXYQ56AB	RUXYQ22AB	3D081604	RUXYQ22AB	3D081604	RUXYQ12AB	3D081603

Unit (mm)

3D082278E

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