SUBMITTAL DATA SHEET

MODEL: Heat Pump 60Hz - RXYQ48BYD

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

FEATURES AND BENEFITS

Experience the next generation of VRV performance.
This new line introduces single modules from 8 to 26 HP—and system expansions up to 78 HP—offering major reductions in installation costs and mechanical room space. Its redesigned chassis makes installation, commissioning, and maintenance easier than ever.

At its core is Daikin's patented inverter compressor, a compact and lightweight design optimized for superior part-load efficiency, delivering EER values up to 5.26. The innovative sealed E-box (IP55) protects the unit against geckos, insects, dust, water, and snow, ensuring long-term reliability in any climate.

Enjoy true design freedom thanks to the ability to expand from single to dual modules without changing main pipe sizes, complemented by industry-leading piping allowances with vertical separation up to 110 m.

The optimized hot-gas defrost system allows installation without a base pan heater, while the learning defrost logic improves heating continuity and speeds up warm-air delivery in the next cycle. The operating range has also been extended, performing up to 52°C DB in cooling and -25°C WB in heating.

Maintenance is faster and smarter with a service window that gives direct access to a multi-functional display showing refrigerant pressures and temperatures—eliminating the need for gauges during routine checks.

With VRT Smart II, indoor and outdoor units work together to minimize energy use by matching capacity to real-time demand. Additional savings come from optimized outdoor airflow control.
Engineered for modern commercial projects, it's the ideal solution for phased development and tenant fit-out applications. And thanks to refrigerant-cooled inverter technology, the PCB stays cool and stable even under extreme ambient conditions.

EXTERNAL APPEARANCE

VRV VI

INVERTER R-410A

Variable Refrigerant Temperature

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Defy your limits
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SPECIFICATIONS

Model Name (Combination Unit)			**RXYQ48BYD**
Model Name (Independent Unit)			**RXYQ22BYD + RXYQ26BYD**
Power supply			3 phase, 460 V, 60 Hz
1 Cooling capacity		kcal/h	116.000
		Btu/h	459.000
		kW	135
2 Heating capacity		kcal/h	124.000
		Btu/h	491.000
		kW	144
Casing color			Ivory white (5Y7.5/1)
Dimensions (H × W × D)		mm	1,660 × 1,750 × 765 + 1,660 × 1,750 × 765
Heat exchanger			Cross fin coil
Compressor	Type		Hermetically sealed scroll type
	Motor output × Number of units	kW	(7.0 × 1) + (7.3 × 1) + (7.7 × 1) + (8.0 × 1)
	Starting method		Soft start
Fan	Type		Propeller fan
	Motor output	kW	(0.95 × 2) + (0.95 × 2)
	Airflow rate	m^3/min	430 + 430
		L/s	7,167 + 7,167
		cfm	15,179 + 15,179
	Drive		Direct drive
Connecting pipes	Liquid pipe	mm	ϕ 19.1 C1220T (Brazing connection)
	Gas pipe	mm	ϕ 41.3 C1220T (Brazing connection)
Mass		kg	390 + 390
3 Sound pressure level (C/H)		dB(A)	71 / 71
Sound power level		dB	93
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Leak detecting device
Capacity control		%	5-100
Refrigerant	Refrigerant name		R-410A
	Charge	kg	11.7 + 11.7
	Control		Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes and Clamps
Drawing No.			4D152348A

Notes:

1. Indoor temp.: 27°CDB, 19°CWB / Outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, Height difference: 0 m.
2. Indoor temp.: 20°CDB, 15°CWB / Outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, Height 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.

Conversion formulae
kcal/h=kW×860 Btu/h=kW×3412 l/s=m^3/min×1000/60 cfm=m^3/min×35.3

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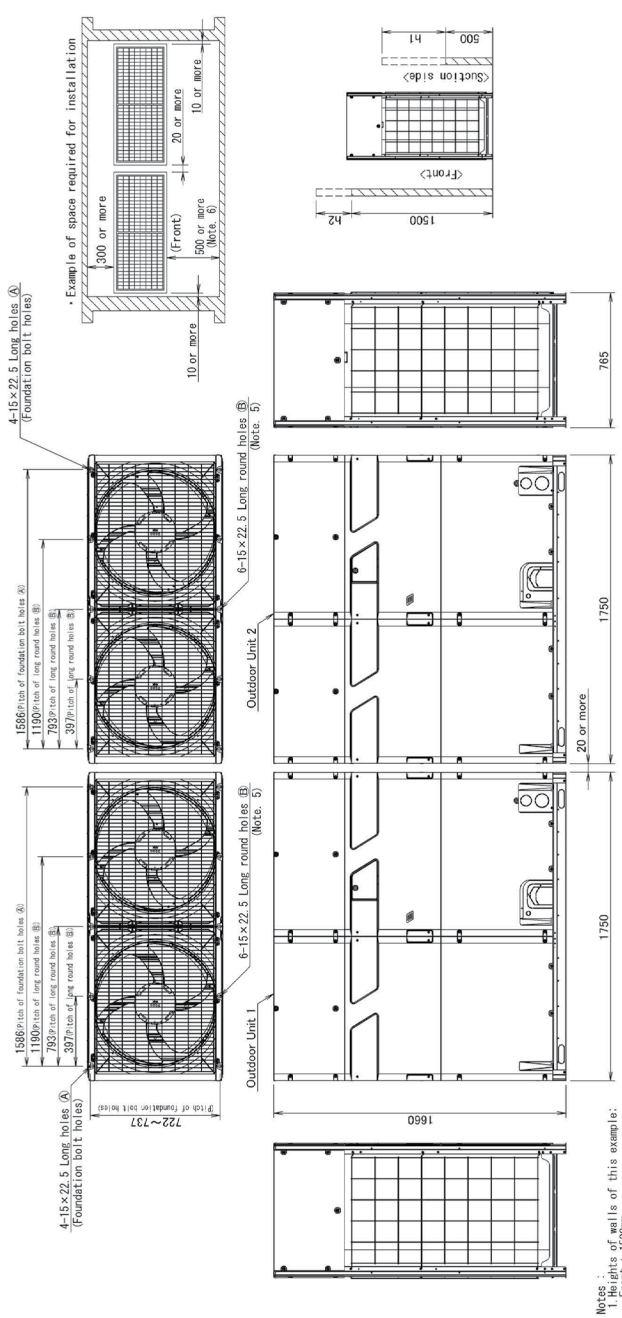
DIMENSIONS

Combination Unit

Unit: mm



Notes :
1. Heights of walls of this example:
   Front : 1500mm
   Suction side : 500mm
   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°CDB.
   The installation space of suction side shown above must be expanded in the following case.
   ・Design outdoor temperature becomes over 35°CDB.
   ・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 "h2"/2 and "h1"/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 "Installation and repair space drawing" in order to obtain the best fit in the space available always bearing in mind the need to leave enough room 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 shown in "Installation and repair space drawing", your layout should take account of the possibility of short circuiting.)
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.
5. It is not necessary to fix the foundation bolts in the long round holes Ⓑ, fix at holes Ⓐ.
6. It is not mandatory but recommended to leave 710mm distance in front of the equipment if enough working space is needed for service work.

Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
RXYQ48BTL/BYD	RXYQ26BTL/BYD	3D145075	RXYQ22BTL/BYD	3D145075
RXYQ50BTL/BYD	RXYQ26BTL/BYD	3D145075	RXYQ24BTL/BYD	3D145075
RXYQ52BTL/BYD	RXYQ26BTL/BYD	3D145075	RXYQ26BTL/BYD	3D145075

3D152239

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