



SUBMITTAL DATA SHEET

MODEL: Heat Pump 60Hz - RXYQ42BYD

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.

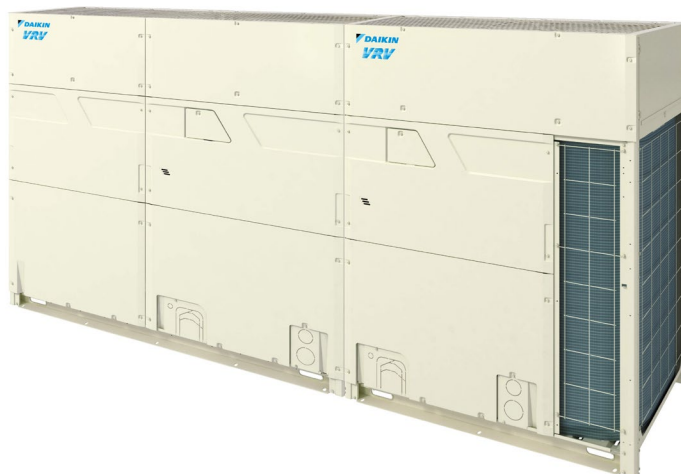
Maintenance is faster and smarter with a service window that gives direct access to a multi-functional display showing refrigerant pressures and temperatures—eliminating the need for gauges during routine checks.

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**



SPECIFICATIONS

Model Name (Combination Unit)			RXYQ42BYD
Model Name (Independent Unit)			RXYQ20BYD + RXYQ22BYD
Power supply			3 phase, 460 V, 60 Hz
1 Cooling capacity	kcal/h		101.000
	Btu/h		401.000
	kW		118
2 Heating capacity	kcal/h		113.000
	Btu/h		450.000
	kW		132
Casing color			Ivory white (5Y7.5/1)
Dimensions (H × W × D)		mm	1,660 × 1,240 × 765 + 1,660 × 1,750 × 765
Heat exchanger			Cross fin coil
Compressor	Type		Hermetically sealed scroll type
	Motor output × Number of units	kW	(4.5 × 1) + (7.4 × 1) + (7.0 × 1) + (7.3 × 1)
	Starting method		Soft start
Fan	Type		Propeller fan
	Motor output	kW	(0.65 × 2) + (0.95 × 2)
	Airflow rate	m³/min	306 + 430
		L/s	5,100 + 7,167
		cfm	10,802 + 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	345 + 390
3 Sound pressure level (C/H)		dB(A)	69 / 70
Sound power level		dB	93
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent relay, Inverter overload protector, Leak detecting device
Capacity control		%	4-100
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.			4D152346B

Notes:

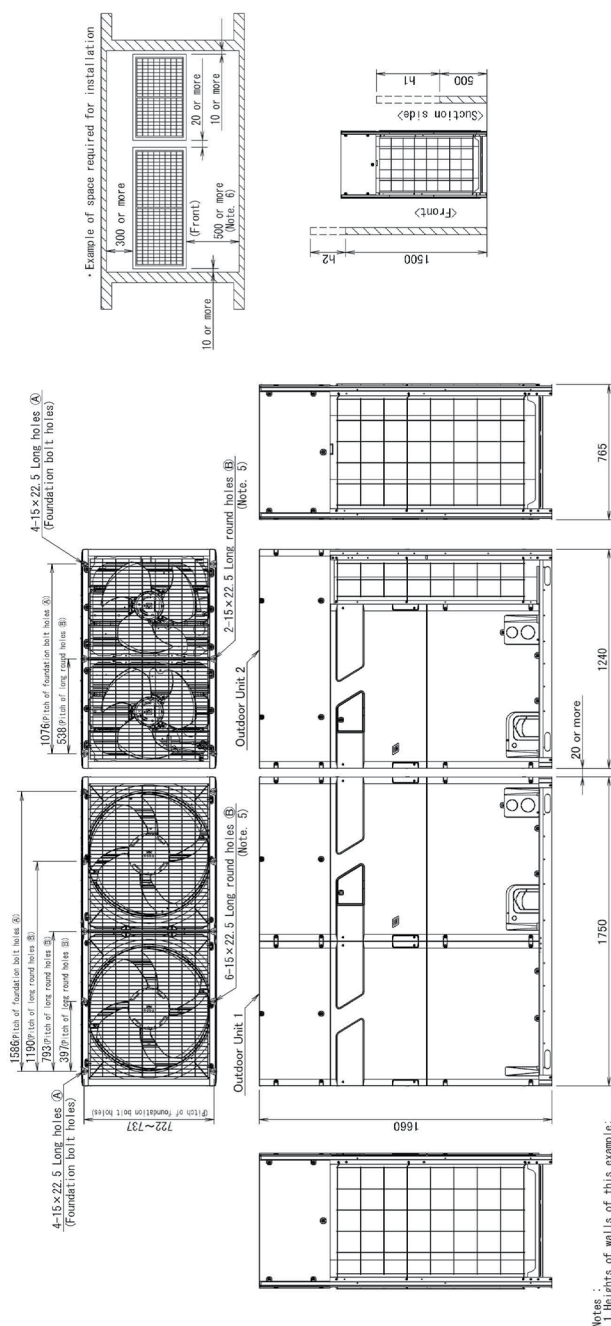
- Indoor temp.: 27°CDB, 19°CWB / Outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, Height difference: 0 m.
- Indoor temp.: 20°CDB, 15°CWB / Outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, Height difference: 0 m.
- Anechoic chamber conversion value, measured at a point 1 m in front 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=m³/min×1000/60
 cfm=m³/min×35.3

Combination Unit

Unit: mm



Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
RYX042BTL /BYD	RY0228TL /BYD	3D145075	RY0208TL /BYD	3D145070
RYX044BTL /BYD	RY0248TL /BYD	3D145075	RY0208TL /BYD	3D145070
RYX046BTL /BYD	RY0268TL /BYD	3D145075	RY0208TL /BYD	3D145070

3D152238

Notes :
1. Heights of walls of this example:

- Front : 1500mm
Section side : 500mm
- The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35 °C.
1. The installation space of section side shown above must be expanded in the following case.
- Bearing over max. operating load (in case of causing a heavy heating load at indoor unit side).
 - The height of the ceiling is less than 2'6" and 2'6" should be added to the front and section side service spaces respectively as shown in the following figure (page 3).
 - Installation and repair space leaving enough room 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 for the air to circulate freely.
 - The units should be installed so that they are shown in "Installation and repair space drawing". Your layout should take account of the possibility of short circuiting.
 - The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.
 - It is not necessary to fix the foundation bolts in the long round holes . A fix at holes  is necessary to prevent vibration. If the distance in front of the equipment, if enough working space is needed for service work.