



SUBMITTAL DATA SHEET

MODEL: Heat Pump 60Hz - RXYQ16BYD

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.

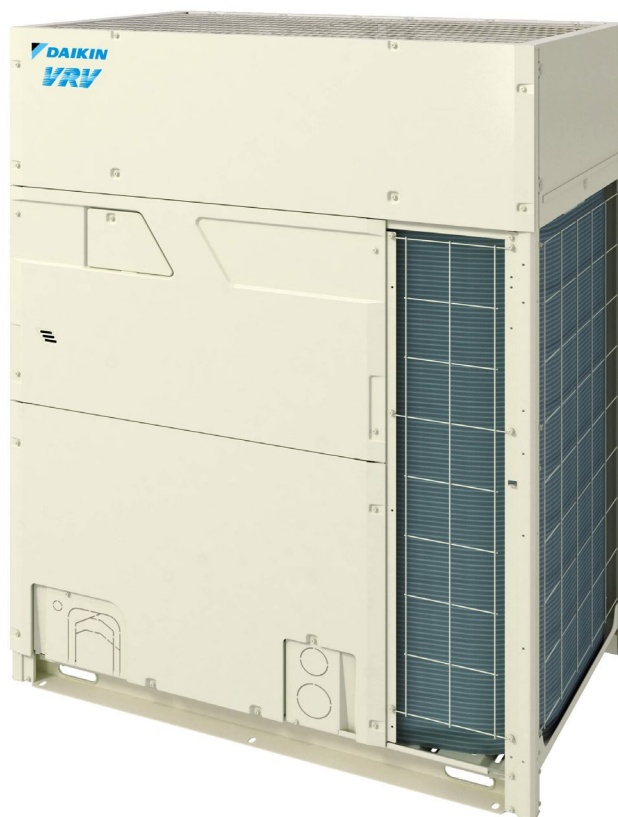
Maintenance is faster and smarter with a service window that gives direct access to a multi-functional display showing refrigerant pressures and temperatures—eliminating the need for gauges during routine checks.

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			RXYQ16BYD
Power supply			3 phase, 460 V, 60 Hz
1 Cooling capacity	kcal/h		39.000
	Btu/h		154.000
	kW		45
2 Heating capacity	kcal/h		43.000
	Btu/h		171.000
	kW		50
Casing color			Ivory white (5Y7.5/1)
Dimensions (H × W × D)		mm	1,660 × 1,240 × 765
Heat exchanger			Cross fin coil
Compressor	Type		Hermetically sealed scroll type
	Motor output × Number of units	kW	(4.4 × 1) + (5.0 × 1)
	Starting method		Soft start
Fan	Type		Propeller fan
	Motor output	kW	(0.65 × 2)
	Airflow rate	m³/min	266
		L/s	4.433
		cfm	9.390
	Drive		Direct drive
Connecting pipes	Liquid pipe	mm	φ 12.7 C1220T (Brazing connection)
	Gas pipe	mm	φ 28.6 C1220T (Brazing connection)
Mass		kg	315
3 Sound pressure level (C/H)		dB(A)	61 / 61
Sound power level		dB	83
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	9,9
	Control		Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes and Clamps
Drawing No.			3D152335B

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.

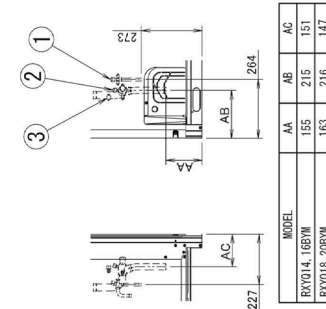
Conversion formulae

kcal/h=kW×860
 Btu/h=kW×3412
 l/s=m³/min×1000/60
 cfm=m³/min×35.3

Independent Unit

Unit: mm

- Notes)
1. For piping connection method (front and bottom sides), see the installation manual.
 2. Section gas pipe connection : RXYQ14, 168
 $\phi 32.4$ Brazing connection : RXYQ16, 208
 $\phi 32.4$ Brazing connection : RXYQ18, 208
 $\phi 32.4$ Brazing connection : RXYQ14, 16, 18, 208
 $\phi 12.7$ Brazing connection : RXYQ14, 16, 18, 208
 3. It is not necessary to fix the foundation bolts in the long round holes (B) fix at holes (A).



9	Power cord routing hole	ø80
8	Power cord routing hole	ø65
7	Pipe routing hole (bottom)	See note 1.
6	Pipe routing hole (front)	See note 1.
5	Transmission wire routing hole	ø27
4	Grounding terminal	Inside of control box (MB)
3	Refrigerant charge port	Service valve $\phi 7.9$ mm (flare connection)
2	Section gas pipe connection port	See note 2.
1	Liquid pipe connection port	See note 2.
No.	Parts name	Remarks

3D145070

