

Engineering Data

RXYMQ3/4AV4A

RXYMQ3/4AVE

RXYMQ5/6BVM

Heat Pump 50 Hz

R-410A



VRV IV S SERIES

1. Basic Information 3

2. Specification 7

3. Installation 57

4. Appendix 135

1. Basic Information

- 1. Lineup.....4
- 2. Capacity Range.....5
 - 2.1 For **VRV** Indoor Units Only5
 - 2.2 For a System with Residential Indoor Units or **VRV** Mix Combination.....6

1. Lineup

VRV IV S SERIES

Model name					Power supply, Standard
RXYMQ (for Australia and New Zealand)	3A	4A	—	—	V4A
RXYMQ* (for Hong Kong)	3A	4A	—	—	VE
RXYMQ	—	—	5B	6B	VM

V4A : 1 phase, 220-230 V, 50 Hz (for Australia and New Zealand)

VE : 1 phase, 220-230/220 V, 50/60 Hz (for Hong Kong)

VM : 1 phase, 220-240/220-230 V, 50/60 Hz

* Information for RXYMQ3/4AVE except power supply is same as RXYMQ3/4AV4A. Refer to RXYMQ3/4AV4A models for details.

3, 4, 5, 6 Class



RXYMQ3AV4A
RXYMQ4AV4A
RXYMQ5BVM
RXYMQ6BVM

2. Capacity Range

2.1 For VRV Indoor Units Only

2.1.1 Connection Ratio

$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$
--

Type	Min. connection ratio	Max. connection ratio	
		Types of connected indoor units	Type of connected air treatment equipment
		VRV indoor units	FXMQ-MF
Single outdoor units	50%	130%	100%

Note:

* It is not possible to connect outdoor-air processing units (FXMQ-MF) together with other types of indoor units.

2.1.2 Outdoor Unit Combinations

Model			RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5BVM	RXYMQ6BVM
kW			9.0	11.2	14.0	16.0
Class			3.5	4	5	6
Capacity index			80	100	125	150
Total capacity index of connectable indoor units	Connection (%)	50%	40	50	62.5	75
		100%	80	100	125	150
		130%	104	130	162.5	195
Maximum number of connectable indoor units			5	6	8	9

2.2 For a System with Residential Indoor Units or VRV Mix Combination

2.2.1 Connection Ratio

Connection ratio = $\frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$

Type	Min. connection ratio	Max. connection ratio	
		Types of connected indoor units	Type of connected air treatment equipment
		Residential indoor units or VRV mix combinations	FXMQ-MF
Single outdoor units	80%		130%
			100%

Note:

* It is not possible to connect outdoor-air processing units (FXMQ-MF) together with other types of indoor units.

2.2.2 Outdoor Unit Combinations

Model		RXYMQ3AV4A	RXYMQ4AV4A	RXYMQ5BVM	RXYMQ6BVM
kW		9.0	11.2	14.0	16.0
Class		3.5	4	5	6
Capacity index		80	100	125	150
Total capacity index of connectable indoor units	Connection (%)	80%	64	80	100
		100%	80	100	125
		130%	104	130	162.5
Maximum number of connectable indoor units		5	6	8	9

2. Specification

1. Specifications	8
1.1 Heat Pump 50 Hz VRV IV S SERIES (RXYMQ-AV4A)	8
1.2 Heat Pump 50/60 Hz VRV IV S SERIES (RXYMQ-BVM).....	9
2. Dimensions.....	10
3. Service Space	12
4. Piping Diagrams	13
5. Wiring Diagrams.....	15
6. Field Wiring	18
7. Electric Characteristics.....	19
8. Safety Devices Setting	21
9. Capacity Tables.....	22
9.1 Cooling Capacity for VRV Indoor Units Only (Te: 6°C).....	22
9.2 Cooling Capacity for Mixed Combination or Only Residential Indoor Units	26
9.3 Heating Capacity (Tc: 46°C)	42
9.4 Capacity Correction Factor	46
10.Operation Limits	50
11.Sound Levels.....	51
12.Optional Accessories.....	55