

**MONOZONE**  
**MULTIZONE**

MONOZONE / MULTIZONE  
All DC PAM Inverter Multi Air Conditioners with  
Twin Rotary & Scroll Compressors

**HITACHI**



**Environmental Management Systems Approval Certificate**




**SIRIM**  
074

HITACHI AIR CONDITIONING PRODUCTS (M) SDN. BHD.  
certified ISO 14001  
Certificate number : H003502047  
Certificate date : April, 1997




TCHIGI WORKS,  
Hitachi Home & Life Solutions, Inc.  
certified ISO 14001  
Certificate number : EC99J2060  
Certificate date : January, 1997

**ISO 9001 Approval Certificate**



**QUALITY SYSTEM**

**SIRIM**

HITACHI AIR CONDITIONING PRODUCTS (M) SDN. BHD.  
certified ISO 9001  
Certificate number : AR0624  
Certificate date : July, 1995




TCHIGI WORKS,  
Hitachi Home & Life Solutions, Inc.  
certified ISO 9001  
Certificate number : JQA-QM9462  
Certificate date : January, 2003



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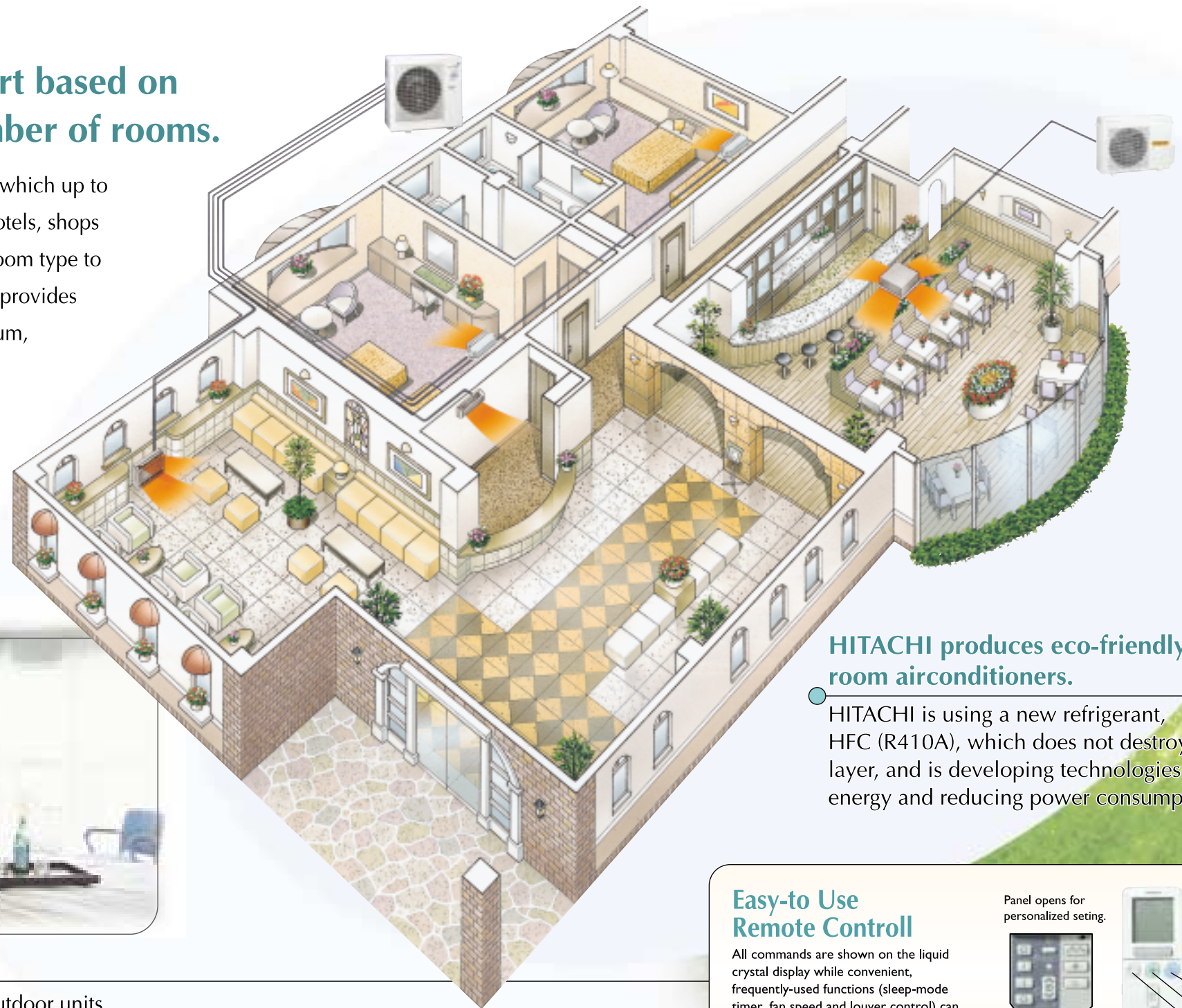
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# Creates the optimum air-conditioned comfort based on the width and shape of the room or the number of rooms.

A new one-room type "MONOZONE" is added to the "MULTIZONE" series in which up to four indoor units can be connected to one outdoor unit. Thus, small offices, hotels, shops or houses can be air-conditioned properly by using combinations of the one-room type to four-room types of indoor and outdoor units. What's more, the on-board PAM provides high power and performance for greater energy efficiency. Creating the optimum, comfortable airconditioned environment is HITACHI's speciality.



HITACHI produces eco-friendly room airconditioners.



HITACHI is using a new refrigerant, HFC (R410A), which does not destroy the ozone layer, and is developing technologies for saving energy and reducing power consumption.

## LINE UP

You can choose and connect freely from different types of indoor units and outdoor units depending on the number of rooms, width and shape of the room and your preference.

### Easy-to Use Remote Control

All commands are shown on the liquid crystal display while convenient, frequently-used functions (sleep-mode timer, fan speed and louver control) can be operated with one-touch buttons.

Panel opens for personalized setting.



24 Hour Timer

### INDOOR UNIT



WALL TYPE

2.5kW

3.5kW

5.0kW



FLOOR TYPE

2.5kW

5.0kW



\*RAM-60/70/80QH4 connection only (at present)

DUCT TYPE

2.5kW

4.0kW



4-WAY CASSETTE TYPE

2.5kW

4.0kW

### OUTDOOR UNIT



MONOZONE 25H ROOM TYPE

35H

50H



MULTIZONE 60H ROOM TYPE

■ Max. nominal capacity of indoor unit combination ▶ 8.5 kW

■ Max. pipe length ▶ 35 m



MULTIZONE 70H ROOM TYPE

■ Max. nominal capacity of indoor unit combination ▶ 11.0 kW

■ Max. pipe length ▶ 60 m



MULTIZONE 80H ROOM TYPE

■ Max. nominal capacity of indoor unit combination ▶ 12.0 kW

■ Max. pipe length ▶ 70 m

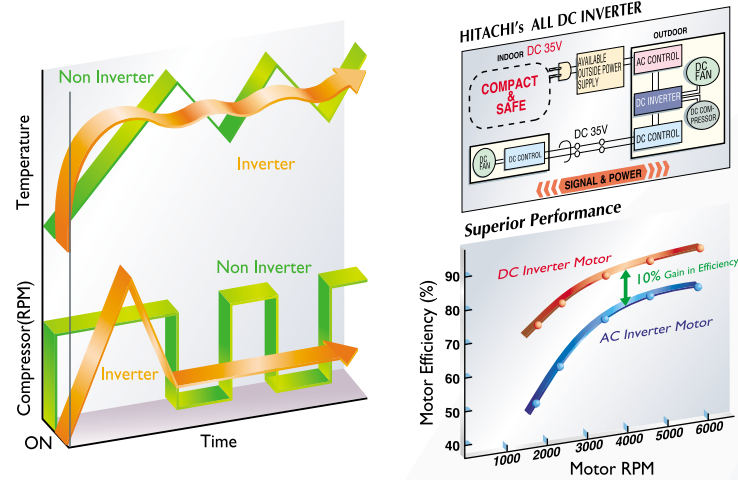
# TECHNICAL FEATURES

## ALL DC PAM Inverter



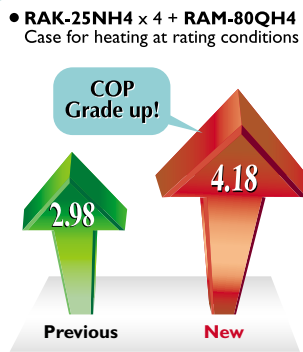
Inverter driven systems have a big performance advantage over constant speed systems. The variable compressor can make a very fast start-up and reach the setting temperature rapidly, then reduce the rotation speed to achieve energy savings of about 30% with no loss of comfort.

Moreover, all of Hitachi's fans and compressors are driven by DC, which deliver about 10% better performance than AC inverters. Hitachi is the world's pioneer of DC inverter systems and PAM in room air conditioners.



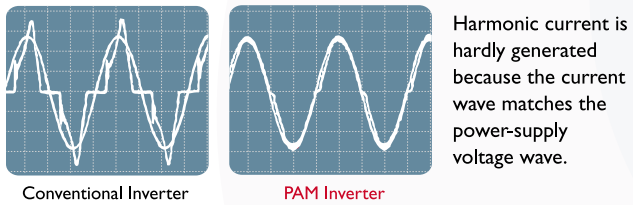
## High performance, heating at -15°C

Hitachi's PAM inverter achieve the effective utilization of power input and minimize loss less than 1%. You can enjoy high COP, top class in industry. Especially heating performance is improved and you can enjoy heating comfort even at -15°C degree ambient temperature.



## Minimized loss of performance

Hitachi's PAM control to keep the current pulse waveform to avoid distortion. It enhances power efficiency. The cutting edge device is employed in Hitachi MONO/MULTIZONE for your comfort and energy saving for our environment.



## Comfortable, Automatic

### Auto-restart

If auto-start mode was selected at the ON/OFF switch, the unit automatically resumes operation in the mode that was in use beforehand.

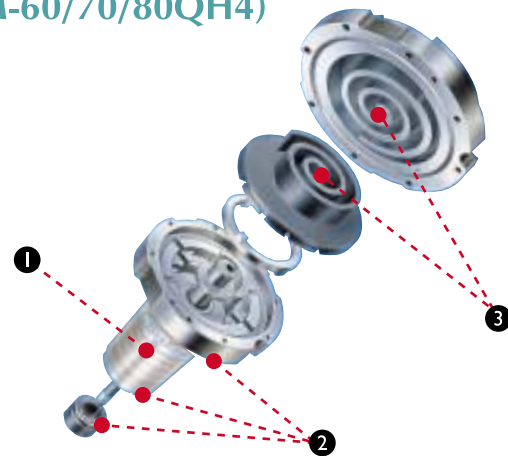
### Auto changeover (for RAC-25/35/50NH4)

The built-in microcomputer continuously selects the best operating mode automatically to provide maximum comfort, based on the set temperature and measurements taken every 10 minutes by a sensor.

## Digital DC scroll compressor (for RAM-60/70/80QH4)

The motor uses digital control to maximize PAM control performance.

- Loss during high-speed revolution is reduced thanks to digital control of the motor.
- Shaft runout during high-speed revolution is lessened by three balancers mounted on the crank shaft.
- Efficient operation with drastically-reduced refrigerant leakage is ensured by the automatic compression system, in which the tip of the slewing scroll is kept in absolute contact with the fixed scroll, in addition to special processing of the scroll surface.



## Twin rotary compressor (for RAC-25/35/50NH4)

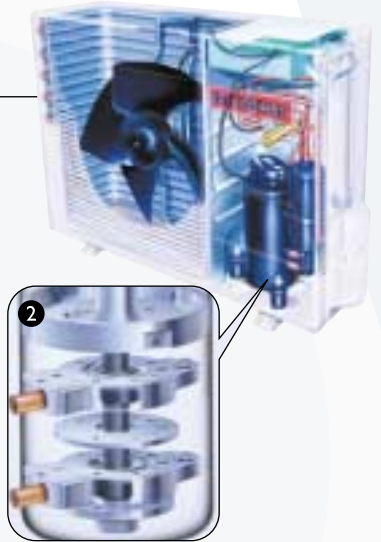
Hitachi's new twin rotary compressor has less vibration and higher efficiency than conventional rotary compressors.

- Two rotating cylinders ensure well-balanced rotation unlike the conventional single-rotary type, thus vibration noise is greatly reduced.
- The compressor's operation is improved by moving two independent cylinders efficiently.

**1 • Drawing of cylinder balance**

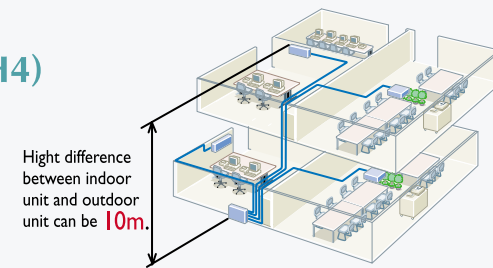
**• Comparison of vibration**

Single	Twin
1	1/5



## Easy installation (for RAM-60/70/80QH4)

The 4-room type covers 70m while the 3-room type covers 60m in total with a vertical interval of 10m. Furthermore, these length are ensured without refrigerant charge.



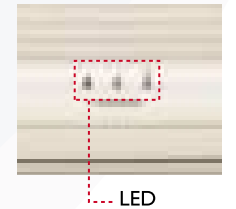
- Chargeless Max : 70m (RAM-80QH4)
- Chargeless Max : 60m (RAM-70QH4)
- Chargeless Max : 35m (RAM-60QH4)

Length between indoor and outdoor unit can be 25m at maximum.

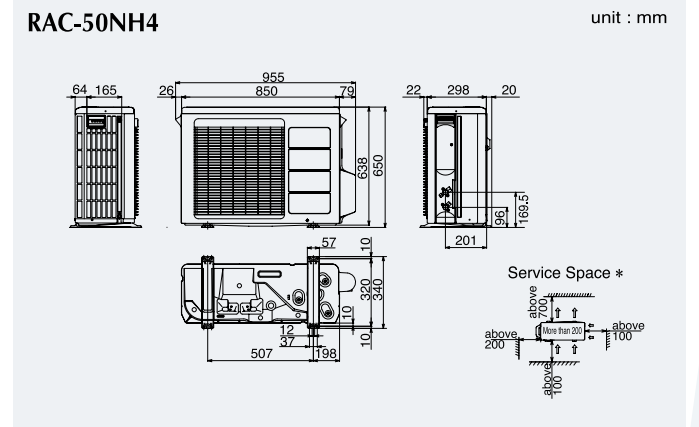
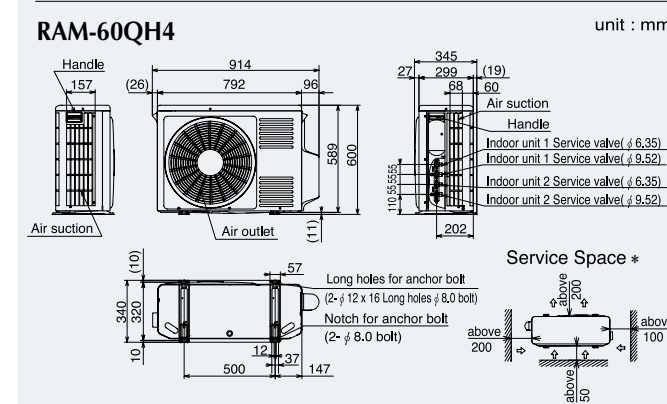
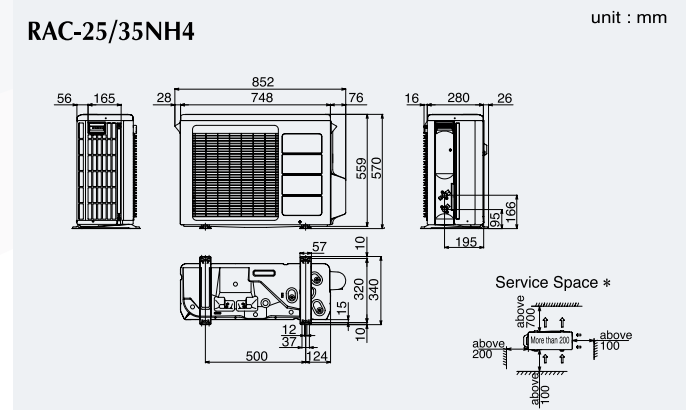
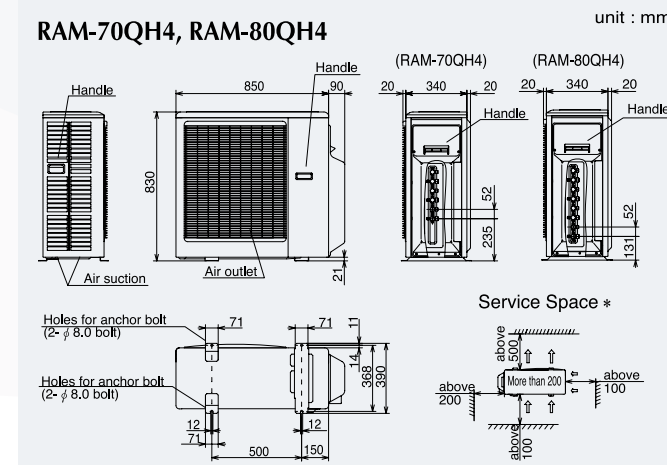
## Easy servicing

### Self diagnosis

Errors are easily identified by the LED blinking patterns of the indoor and outdoor units.



## Outdoor dimensions



\* At least two of the above sides must be open air.

# INDOOR UNIT

## NEW WALL TYPE

RAK-25NH4 RAK-35NH4  
RAK-50NH4

A new line up perfectly fits your room with gradation-designed grills and symmetric design. Dramatically-improved efficiency and noise-control performance.



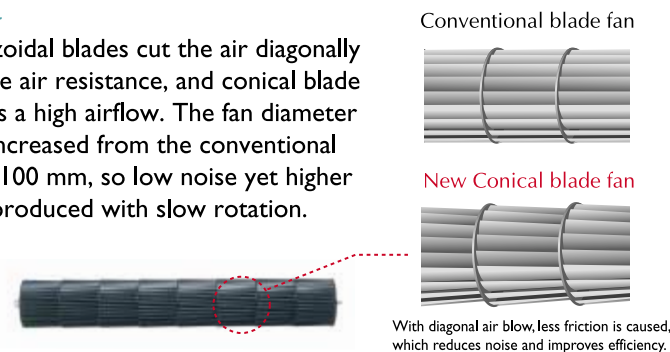
### Powerful

Newly-developed super big flap delivers air quickly to every corner of the room, and the powerful, sweeping air flow eliminates dead zones and improves the cooling and heating effect.



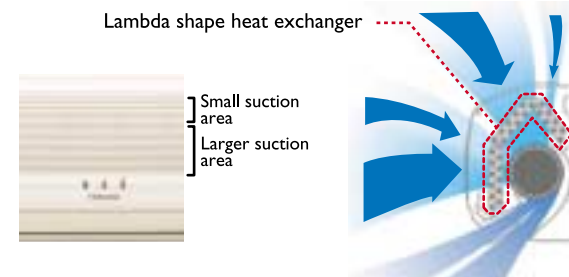
### Silent

The trapezoidal blades cut the air diagonally to minimize air resistance, and conical blade fan ensures a high airflow. The fan diameter has been increased from the conventional 90 mm to 100 mm, so low noise yet higher airflow is produced with slow rotation.



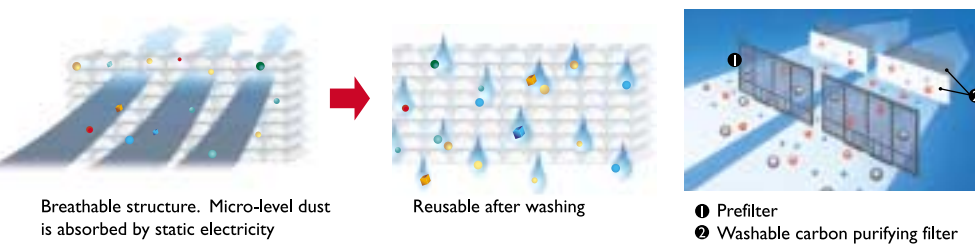
### Efficient

Lambda-shaped heat exchanger with advanced design for wide suction area and a high performance adjusts the room temperature quickly, achieving higher COP. The gradation-design grill and larger top suction area also increase the efficiency of heat exchange with the concentrated opening area, to improve the efficiency of air intake.



### Clean

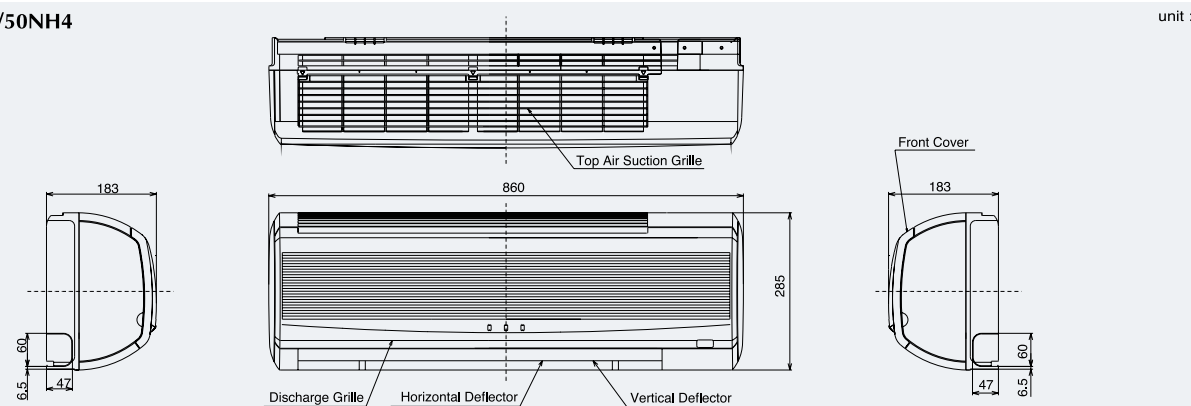
Static electricity and carbon absorb micro dust, pollen particles and odors, and the air purifying filter can be washed and reused up to 20 times.



### Dimension

RAK-25/35/50NH4

unit : mm



# INDOOR UNIT

## NEW FLOOR TYPE

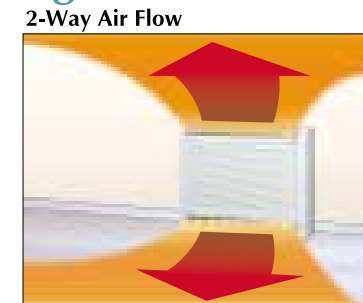
RAF-25NH4 RAF-50NH4

Floor type with improved efficiency, noise-control performance and maintainability in addition to the streamlined style or symmetric rounded design. With upper and lower air outlets in two directions, every corner of the room can be warmed.



### Comfortable heating

The airflow from upper and lower outlets heats the whole room evenly, even underneath your feet. The wider flap envelops you with comfortable air.

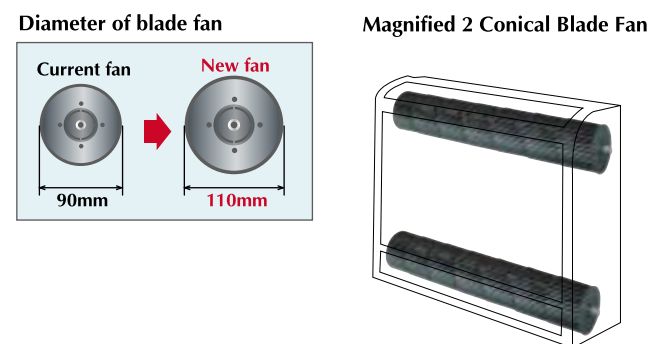


Large and gentle air flow is generated by the larger upper blades, achieving efficient airconditioning.



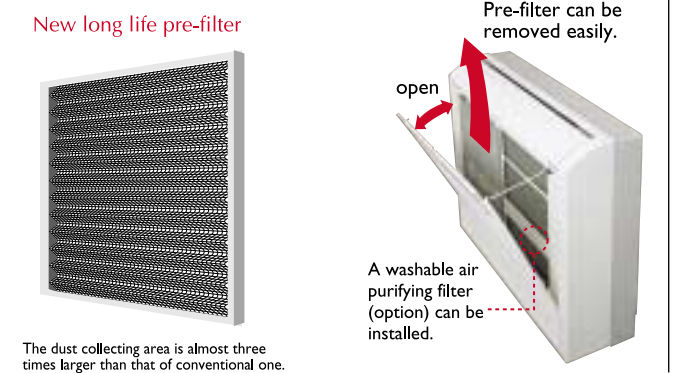
### High performance

The larger blade fan than normal rotates sufficient airflow slowly, thus achieving high efficiency and low noise.



### Easy cleaning

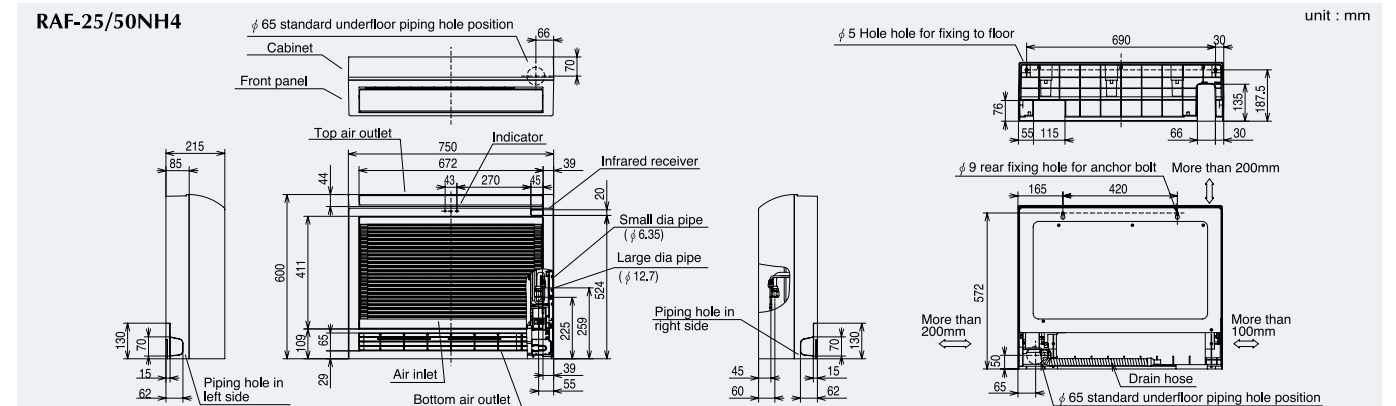
You can remove pre-filter easily for washing or you can clean directly by vacuum cleaner. The filter catch 3 times more dusts due to waved shape, so you do not have to clean so often.



### Dimension

RAF-25/50NH4

unit : mm



# INDOOR UNIT

## DUCT TYPE

### RAD-25QH4 RAD-40QH4

The free duct enables the air inlet and outlet layout system to be freely chosen depending on the building structure and room width, thus keeping your room looking beautiful.

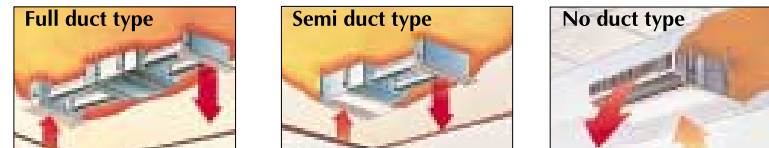


\*RAM-60/70/80QH4 connection only (at present)

### Neatly installable in any room.

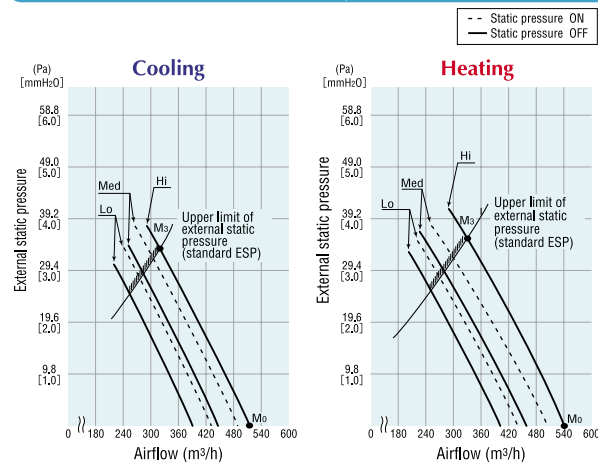
Duct extendable for up to 4m. High-pressure switch setting delivers sufficient air conditioning even by duct installation.

Variation in installations

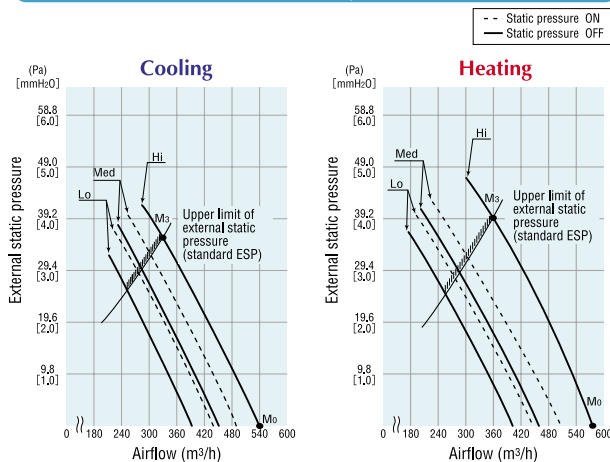


### Static pressure & Airflow

#### RAD-25QH4



#### RAD-40QH4



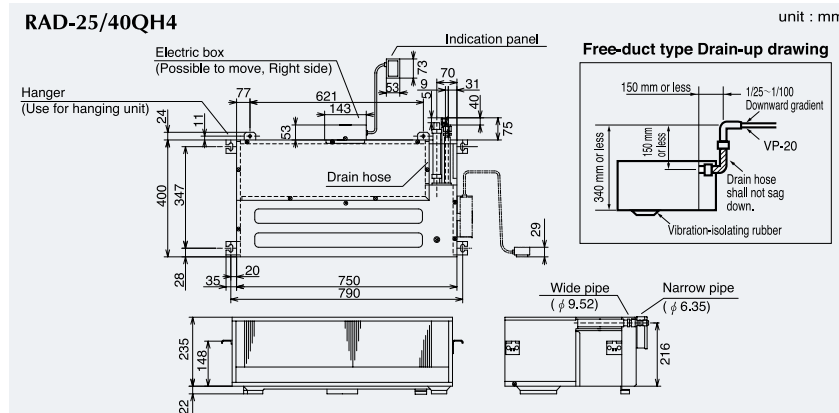
Measuring conditions : M3 = In case the duct is 4m long  
Mo = For single indoor unit

### Built-in drain pump

This air conditioner is equipped with an internal drain pump to remove accumulated condensation water automatically from the drain pan even while it is operating.



### Dimension



# SPECIFICATIONS

## Outdoor Units

Models	MONOZONE			MULTIZONE		
	RAC-25NH4	RAC-35NH4	RAC-50NH4	RAM-60QH4	RAM-70QH4	RAM-80QH4
Power Supply	1 φ, 230V, 50Hz	1 φ, 230V, 50Hz	1 φ, 230V, 50Hz	1 φ, 230V, 50Hz	1 φ, 230V, 50Hz	1 φ, 230V, 50Hz
Capacity	Cooling	2.5(0.9-3.0)	3.5(0.9-4.0)	5.0(0.9-5.2)	6.0(1.5-6.6)	7.0(3.0-9.2)
	Heating	3.5(0.9-5.0)*	4.8(0.9-6.6)	6.5(0.9-8.1)*	7.5(1.5-8.3)	9.6(3.0-10.6)
Recommended Fuse Size	A			16	16	16
Sound Level	Cool(Night Mode)	49	49	50	49(42)	48(43)
	Heat(Night Mode)	49	51	52	52(46)	51(43)
Compressor	Type	Twin Rotary	Twin Rotary	Twin Rotary	Digital Scroll	Digital Scroll
	Q'ty	1	1	1	1	2
	Circuits	1	1	1	1	2
Refrigerant	R410A			R410A	R410A	R410A
Refrigerant Charge	Chargeless			Chargeless	Chargeless	Chargeless
Piping Length	Total	m			20	20
	Individual	m			25	25
Maximum Height Gap	m			±5	±5	±5
Piping Size	Liquid Line	mm			6.35×1	6.35×1
	Gas Line	mm			9.52×1	9.52×1
Connecting Wires	Out/In	3 pcs			3 pcs	3 pcs
	Voltage	DC 35V			DC 35V	DC 35V
Operation range	Cooling	21°C ~ 43°C			21°C ~ 43°C	21°C ~ 43°C
	Heating	-15°C ~ 21°C			-15°C ~ 21°C	-15°C ~ 21°C
Net Dimensions (Gross Dimensions)	W	mm			750(905)	750(905)
	H	mm			570(633)	570(633)
	D	mm			280(394)	280(394)
Net Weight(Gross Weight)	kg			38(43)	38(43)	
Container loading Qty	20/40 ft			102/219	102/219	

\* : See below MONOZONE combination columns.

## Indoor Units

Types Models	Wall type		Floor type		Duct type		
	RAK-25NH4	RAK-35NH4	RAK-50NH4	RAF-25NH4	RAF-50NH4	RAD-25QH4	RAD-40QH4
Panel Color	Pearl white		Pearl white	Pearl white	Pearl white	—	—
Power Supply from Outdoor	DC35V		DC35V	DC35V	DC35V	DC35V	DC35V
Air Flow*	Cool	Hi		m³/min		8.4	9.3
	Heat	Hi		m³/min		10.0	10.5
Sound Level*	Cool	Hi/Me/Lo		dBA		37/32/26(23)	39/33/27(23)
	Heat	Hi/Me/Lo (sleep)		dBA		39/36/32(31)	40/37/33(32)
Fan Speed	3		3	3	3	3	
Air Deflector	Auto		Auto	Auto	Auto	—	
Air purifying filter(SPX-CFH5)	○		○	(Option)	(Option)	—	
Piping Size	Liquid Line	mm		6.35	6.35	6.35	
	Gas Line	mm		9.52	9.52	9.52	
Coupling Pipe	Flare		Flare	Flare	Flare	Flare	
Net Dimensions (Gross Dimensions)	W	mm		860(888)	860(888)	750(797)	
	H	mm		285(338)	285(338)	600(656)	
	D	mm		183(279)	183(279)	235(306)	
Net Weight(Gross Weight)	kg		9(12)	9(12)	10(14)		
Container Loding Qty	20/40ft		300/636	300/636	184/408		

\* : MULTIZONE combination

## MONOZONE COMBINATION

Model Name	Indoor Units		RAK-25NH4	RAK-35NH4	RAK-50NH4	RAF-25NH4	RAF-50NH4
	Outdoor Units		RAC-25NH4	RAC-35NH4	RAC-50NH4	RAC-25NH4	RAC-50NH4
Capacity	Cooling	kW		2.5(0.9-3.0)	3.5(0.9-4.0)	5.0(0.9-5.2)	2.5(0.9-3.0)
	Heating	kW		3.5(0.9-5.0)	4.8(0.9-6.6)	6.5(0.9-8.1)	3.9(0.9-5.0)
Total Input	Cooling	W		695(155-1,050)	1,080(155-1,280)	1,780(155-2,230)	695(155-1,050)
	Heating	W		900(115-1,400)	1,320(115-1,920)	1,970(115-2,700)	900(115-1,400)
Total Amperes	Cooling	A		3.05	4.72	7.82	3.05
	Heating	A		4.00	5.77	8.65	4.00
COP	Cooling			3.60	3.24	2.81	3.60
	Heating			3.89	3.64	3.30	4.33
Dehumidifying Capacity	lh		1.4	1.8	2.8	1.4	

RATING CONDITION (DRY BULB / WET BULB)

	INDOOR	OUTDOOR
COOLING	27 / 19°C	35 / -°C
HEATING	20 / -°C	7 / 6°C

● Specifications are subject to change without notice.

# MULTIZONE COMBINATION

## RAM-80QH4

	COMBINATION OF INDOOR UNITS	COOLING MODE						HEATING MODE							
		ROOM 1 CAPACITY (kW)	ROOM 2 CAPACITY (kW)	ROOM 3 CAPACITY (kW)	ROOM 4 CAPACITY (kW)	TOTAL CAPACITY (kW)	TOTAL INPUT (W)	TOTAL CURRENT (A)	ROOM 1 CAPACITY (kW)	ROOM 2 CAPACITY (kW)	ROOM 3 CAPACITY (kW)	ROOM 4 CAPACITY (kW)	TOTAL CAPACITY (kW)	TOTAL INPUT (W)	TOTAL CURRENT (A)
ONE UNIT	2.5	2.50	—	—	—	2.50 (1.00-2.80)	780 (360-980)	3.4	3.90	—	—	—	3.90 (1.10-4.70)	1,100 (320-1,280)	4.8
	3.5	3.50	—	—	—	3.50 (1.00-3.90)	1,160 (360-1,280)	5.1	4.80	—	—	—	4.80 (1.10-5.80)	1,380 (320-1,750)	6.1
	4.0	4.00	—	—	—	4.00 (1.00-4.50)	1,340 (360-1,480)	5.9	6.00	—	—	—	6.00 (1.10-6.80)	1,770 (320-1,920)	7.8
	5.0	5.00	—	—	—	5.00 (1.00-5.60)	1,910 (360-2,100)	8.4	6.70	—	—	—	6.70 (1.10-7.60)	2,070 (320-2,170)	9.1
◇ TWO UNIT	2.5+2.5	2.50	2.50	—	—	5.00 (1.50-5.60)	1,560 (640-1,720)	6.9	3.90	3.90	—	—	7.80 (1.50-8.60)	2,290 (600-2,520)	10.1
	2.5+3.5	2.50	3.50	—	—	6.00 (1.50-6.60)	1,990 (640-2,190)	8.7	3.90	4.80	—	—	8.70 (1.50-9.60)	2,690 (600-2,960)	11.8
	2.5+4.0	2.50	4.00	—	—	6.50 (1.50-7.00)	2,220 (640-2,440)	9.7	3.50	5.50	—	—	9.00 (1.50-9.90)	3,200 (600-3,520)	14.1
	2.5+5.0	2.50	4.50	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	3.00	6.00	—	—	9.00 (1.50-9.90)	3,200 (600-3,520)	14.1
	3.5+3.5	3.50	3.50	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	4.70	4.70	—	—	9.40 (1.50-10.30)	3,200 (600-3,520)	14.1
	3.5+4.0	3.50	4.00	—	—	7.50 (1.50-8.00)	2,720 (640-2,990)	11.9	4.50	4.90	—	—	9.40 (1.50-10.30)	3,200 (600-3,520)	14.1
	3.5+5.0	3.10	4.40	—	—	7.50 (1.50-8.00)	2,720 (640-2,990)	11.9	4.00	5.60	—	—	9.60 (1.50-10.60)	3,300 (600-3,630)	14.5
	4.0+4.0	4.00	4.00	—	—	8.00 (1.50-8.20)	2,760 (640-3,040)	12.1	4.80	4.80	—	—	9.60 (1.50-10.30)	3,300 (600-3,630)	14.5
	4.0+5.0	3.60	4.40	—	—	8.00 (1.50-8.20)	2,760 (640-3,040)	12.1	4.30	5.30	—	—	9.60 (1.50-10.60)	3,300 (600-3,630)	14.5
	5.0+5.0	4.00	4.00	—	—	8.00 (1.50-8.20)	2,760 (640-3,040)	12.1	4.80	4.80	—	—	9.60 (1.50-10.60)	3,300 (600-3,630)	14.5
◆ TWO UNIT	2.5+2.5	2.50	2.50	—	—	5.00 (1.50-5.50)	1,660 (640-1,830)	7.3	2.90	2.90	—	—	5.80 (1.50-6.40)	1,580 (600-1,740)	6.9
	2.5+3.5	2.30	3.30	—	—	5.60 (1.50-6.20)	1,860 (640-2,050)	8.2	2.60	3.60	—	—	6.20 (1.50-6.80)	1,930 (600-2,120)	8.5
	2.5+4.0	2.20	3.40	—	—	5.60 (1.50-6.20)	1,860 (640-2,050)	8.2	2.40	3.80	—	—	6.20 (1.50-6.80)	1,930 (600-2,120)	8.5
	3.5+3.5	2.80	2.80	—	—	5.60 (1.50-6.20)	1,860 (640-2,050)	8.2	3.10	3.10	—	—	6.20 (1.50-6.80)	1,930 (600-2,120)	8.5
THREE UNIT	2.5+2.5+2.5	2.50	2.50	2.50	—	7.50 (3.00-8.20)	2,420 (650-3,000)	10.6	3.40	3.40	3.40	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+2.5+3.5	2.30	2.30	3.40	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	3.00	3.00	4.20	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+2.5+4.0	2.20	2.20	3.60	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	2.80	2.80	4.60	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+2.5+5.0	2.00	2.00	4.00	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	2.60	2.60	5.00	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+3.5+3.5	2.00	3.00	3.00	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	2.60	3.80	3.80	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+3.5+4.0	2.00	2.90	3.10	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	2.60	3.60	4.00	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+3.5+5.0	1.80	2.60	3.60	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	2.30	3.30	4.60	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+4.0+4.0	2.00	3.00	3.00	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	2.40	3.90	3.90	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	2.5+4.0+5.0	1.70	2.80	3.50	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	2.30	3.50	4.40	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	3.5+3.5+3.5	2.66	2.66	2.66	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	3.40	3.40	3.40	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	3.5+3.5+4.0	2.60	2.60	2.80	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	3.20	3.20	3.80	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	3.5+3.5+5.0	2.40	2.40	3.20	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	3.00	3.00	4.20	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
	3.5+4.0+4.0	2.40	2.80	2.80	—	8.00 (3.00-8.50)	2,580 (650-3,200)	11.3	3.20	3.50	3.50	—	10.20 (3.00-11.20)	2,530 (620-3,630)	11.1
FOUR UNIT	2.5+2.5+2.5+2.5	2.00	2.00	2.00	2.00	8.00 (3.00-9.20)	2,650 (650-3,200)	11.6	2.75	2.75	2.75	2.75	11.0 (3.00-12.40)	2,630 (600-3,630)	11.6
	2.5+2.5+2.5+3.5	1.85	1.85	1.85	2.45	8.00 (3.00-9.20)	2,650 (650-3,200)	11.6	2.50	2.50	2.50	3.50	11.0 (3.00-12.40)	2,630 (600-3,630)	11.6
	2.5+2.5+2.5+4.0	1.80	1.80	1.80	2.60	8.00 (3.00-9.20)	2,650 (650-3,200)	11.6	2.40	2.40	2.40	3.80	11.0 (3.00-12.40)	2,630 (600-3,630)	11.6
	2.5+2.5+3.5+3.5	1.70	1.70	2.30	2.30	8.00 (3.00-9.20)	2,650 (650-3,200)	11.6	2.30	2.30	3.20	3.20	11.0 (3.00-12.40)	2,630 (600-3,630)	11.6

◇ Two units : Each unit is connected to each compressor.

◆ Two units : Two units are connected to one compressor.

RATING CONDITION (DRY BULB / WET BULB)

	INDOOR	OUTDOOR
COOLING	27 / 19°C	35 / -°C
HEATING	20 / -°C	7 / 6°C

## RAM-70QH4

	COMBINATION OF INDOOR UNITS	COOLING MODE						HEATING MODE							
		ROOM 1 CAPACITY (kW)	ROOM 2 CAPACITY (kW)	ROOM 3 CAPACITY (kW)	TOTAL CAPACITY (kW)	TOTAL INPUT (W)	TOTAL CURRENT (A)	ROOM 1 CAPACITY (kW)	ROOM 2 CAPACITY (kW)	ROOM 3 CAPACITY (kW)	TOTAL CAPACITY (kW)	TOTAL INPUT (W)	TOTAL CURRENT (A)		
ONE UNIT	2.5	2.50	—	—	2.50 (1.00-2.80)	780 (360-980)	3.4	3.90	—	—	—	3.90 (1.10-4.70)	1,100 (320-1,280)	4.8	
	3.5	3.50	—	—	3.50 (1.00-3.90)	1,160 (360-1,280)	5.1	4.80	—	—	—	4.80 (1.10-5.80)	1,380 (320-1,750)	6.1	
	4.0	4.00	—	—	4.00 (1.00-4.50)	1,340 (360-1,480)	5.9	6.00	—	—	—	6.00 (1.00-6.80)	1,770 (320-1,920)	7.8	
	5.0	5.00	—	—	5.00 (1.00-5.60)	1,910 (360-2,100)	8.4	6.70	—	—	—	6.70 (1.10-7.60)	2,070 (320-2,170)	9.1	
◇ TWO UNIT	2.5+2.5	2.50	2.50	—	—	5.00 (1.50-6.60)	1,560 (640-1,720)	6.9	3.90	3.90	—	—	7.80 (1.50-8.60)	2,290 (600-2,520)	10.1
	2.5+3.5	2.50	3.50	—	—	6.00 (1.50-6.60)	1,990 (640-2,190)	8.7	3.90	4.80	—	—	8.70 (1.50-9.60)	2,690 (600-2,960)	11.8
	2.5+4.0	2.50	4.00	—	—	6.50 (1.50-7.00)	2,220 (640-2,440)	9.7	3.50	5.50	—	—	9.00 (1.50-9.90)	3,200 (600-3,520)	14.1
	2.5+5.0	2.50	4.50	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	3.00	6.00	—	—	9.00 (1.50-9.90)	3,200 (600-3,520)	14.1
	3.5+3.5	3.50	3.50	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	4.70	4.70	—	—	9.40 (1.50-10.30)	3,200 (600-3,520)	14.1
	3.5+4.0	3.30	3.70	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	4.50	4.90	—	—	9.40 (1.50-10.30)	3,200 (600-3,520)	14.1
	3.5+5.0	2.90	4.10	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	3.90	5.50	—	—	9.40 (1.50-10.30)	3,200 (600-3,520)	14.1
	4.0+4.0	3.50	3.50	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	4.70	4.70	—	—	9.40 (1.50-10.30)	3,200 (600-3,520)	14.1
	4.0+5.0	3.10	3.90	—	—	7.00 (1.50-7.60)	2,580 (640-2,840)	11.3	4.20	5.20	—	—	9.40 (1.50-10.30)	3,200 (600-3,520)	14.1
	◆ TWO UNIT	2.5+2.5	2.50	2.50	—	—	5.00 (1.50-5.50)	1,660 (640-1,830)	7.3	2.90	2.90	—	—	5.80 (1.50-6.40)	1,580 (600-1,740)
2.5+3.5		2.30	3.30	—	—	5.60 (1.50-6.20)	1,860 (640-2,050)	8.2	2.60	3.60	—	—	6.20 (1.50-6.80)	1,930 (600-2,120)	8.5
2.5+4.0		2.20	3.40	—	—	5.60 (1.50-6.20)	1,860 (640-2,050)	8.2	2.40	3.80	—	—	6.20 (1.50-6.80)	1,930 (600-2,120)	8.5
3.5+3.5		2.80	2.80	—	—	5.60 (1.50-6.20)	1,860 (640-2,050)	8.2	3.10	3.10	—	—	6.20 (1.50-6.80)	1,930 (600-2,120)	8.5
THREE UNIT	2.5+2.5+2.5	2.33	2.33	2.33	—	7.00 (3.00-7.90)	2,180 (650-3,180)	9.6	3.20	3.20	3.20	—	9.60 (3.00-10.60)	2,480 (620-3,520)	10.9
	2.5+2.5+3.5	2.05	2.05	2.90	—	7.00 (3.00-7.90)	2,180 (650-3,180)	9.6	2.80	2.80	4.00	—	9.60 (3.00-10.60)	2,480 (620-3,520)	10.9
	2.5+2.5+4.0	1.95	1.95	3.10	—	7.00 (3.00-7.90)	2,180 (650-3,180)	9.6	2.60	2.60	4.40	—	9.60 (3.00-10.60)	2,480 (620-3,520)	10.9
	2.5+2.5+5.0	1.75	1.75	3.50	—	7.00 (3.00-7.90)	2,180 (650-3,180)	9.6	2.35	2.35	4.90	—	9.60 (3.00-10.60)	2,480 (620-3,520)	10.9
	2.5+3.5+3.5	1.80	2.60	2.60	—	7.00 (3.00-7.90)	2,180 (650-3,180)	9.6	2.53	3.53	3.53	—	9.60 (3.00-10.60)	2,480 (620-3,520)	10.9
	2.5+3.5+4.0	1.75	2.45	2.80	—	7.00 (3.00-7.90)	2,180 (650-3,180)	9.6	2.40	3.40	3.80	—	9.60 (3.00-10.60)	2,480 (620-3,520)	10.9
	2.5+3.5+5.0	1.60	2.20	3.20	—	7.00 (3.00-7.90)	2,180 (650-3,180)	9.6	2.10	3.					