



Cooling Capacity  
1.5kW – 13.2kW

Heating Capacity  
1.5kW – 14.4kW

# Hitachi

## Multizone Heat Pump Air Conditioning

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Giving you complete control



## Zone control that's fast, efficient and clean

Imagine being able to rapidly adjust the comfort levels in selected rooms while ensuring that the air is virtually 100% free of allergens and bacteria.\*

### Hitachi's Multizone heat pump makes it all possible.

Offering an easy, economical way to heat or cool up to six indoor spaces, the Multizone system connects separately to each indoor unit, giving you the ability to activate each room individually or simultaneously. It also enables you to set different temperatures for each area.

For those demanding only the purest air quality, a Nano-Titanium air purifying filter with a unique wasabi anti-bacterial coating reduces bacteria and allergen levels by around 99% and 98% respectively.\*

Even if your outdoor space is limited, you don't have to compromise on indoor comfort or hygiene levels. Thanks to a highly compact outdoor unit, Multizone is the perfect fit for projects where installation room is minimal.

Ranging in capacity from 1.5kW to 13.2kW in cooling and 1.5kW to 14.4kW in heating, Hitachi Multizone heat pumps are the ideal climate control solution for medium-sized, multiple-floor apartments with limited balcony space, or light commercial settings like shops or restaurants.

\*Wall mounts only.

# Where sustainability, economy and performance meet

Created with high efficiency in mind, Hitachi Multizone heat pumps can form an integral part of a sustainable energy strategy.

Able to rapidly heat or cool only those rooms that are occupied, the system enables you to customise your energy use while significantly reducing running costs.

High efficiency levels are also made possible by the use of super-efficient DC technology within the system's motor, outer fan, inner fan, and inverter compressor.

It's just another way Hitachi is helping buildings to reduce their carbon footprints.

## Other benefits:

- Industry leading 6 year parts and labour warranty on Hitachi Multizone for the home and office.
- Compatibility with a range of indoor unit types - wall mount, cassette or ducted.
- Low noise and vibration levels, made possible by the use of two cylinder rotary compressors.
- The system allows up to 75-metres between outdoor and indoor units and 25-metres per indoor head.
- The ability to improve building aesthetics through the use of minimal outdoor units.
- Ease of installation.
- Control from anywhere with a Wi-Fi smartphone control option.\*
- An Eco Mode setting that enables users to achieve significant energy savings.\*
- Ease of operation via a premium controller, which also facilitates easy and fast servicing by accurately displaying the status of all performance parameters.
- A card key 'on' and 'off' function that enables automatic deactivation once a room becomes unoccupied.\*\*
- Remote 'on' and 'off' capability.\*\*
- Remote alarm capacity, ensuring any problems can be monitored and diagnosed by an external controller.\*\*
- High durability, made possible by anti-corrosion and anti-dust coatings on the outer heat exchanger.

\* Wall Mount and Cassettes only.

\*\* Optional

## The Hitachi-Temperzone advantage

As global pioneers of inverter air conditioning technology, Hitachi's design innovations have been redefining climate control possibilities for over 30-years.

Thanks to an alliance with New Zealand air conditioning company Temperzone, customers can select from a wide range of Hitachi products while also enjoying the peace-of-mind that only comes from local support and technical expertise.



### 6 Year Warranty

An industry leading 6 year parts and labour warranty covers the Hitachi Multizone air conditioner for your home and office.

## Technological advancements



Inverter  
Multizone

### High Efficiency Operation

Hitachi utilises advanced technology to achieve high operational efficiency, with the application of the following innovations enabling significant power savings.

### All PAM Inverter

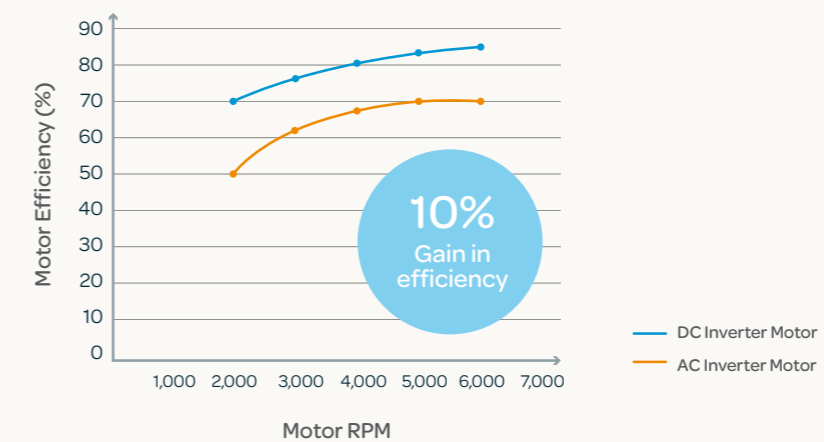
Inverter-driven systems enjoy a large performance advantage over their constant speed counterparts. The variable compressor enables fast start-up and rapid achievement of desired temperature before reducing rotation speed to generate energy savings of around 30% without incurring a loss of comfort.

As the pioneer of DC inverter systems and PAM in-room air conditioners, Hitachi's DC-powered fans and compressors deliver a degree of performance around 10% better than AC-powered alternatives.

See figure 1

Fig1

Comparison of motor efficiency (compared by Hitachi)



# Technological advancements

## Inverter Control

Hitachi's PAM control system can maintain current pulse waveform and minimises distortion, thus enhancing power efficiency. This cutting-edge breakthrough is employed in Hitachi Multizone systems to maximise comfort and environmental sustainability.

## Heating down to -15°C

Hitachi's PAM inverter system maximises input power to achieve heat loss levels of less than 1%. With improved heating performance the system will operate in ambient **temperatures as low as -15°C**. This should ensure you stay cosy and warm all winter.

## Auto-Restart

The Auto-Restart mode is a standard feature that enables the system to automatically resume operation in the previous mode after a power failure.

## Rapid Start-Up

The variable speed compressor (inverter) enables the system to rapidly achieve desired room temperature settings. Once this temperature has been reached, the compressor rotation speed is reduced, thus reducing energy use by up to 30% (when compared to conventional systems) without compromising comfort levels.

## Easy Servicing

**Self-diagnosis**  
In the event of unit failure, pressing the (INFO) button on the remote controller will result in an error code being displayed. RAK and RAI systems only. In the event of unit failure an error code is available for easy diagnosis on the RAD series.

## DC 2-Cylinder Rotary Compressor

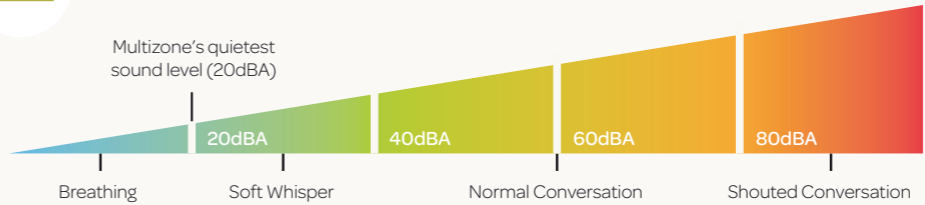
Hitachi's DC 2-Cylinder rotary compressor offers higher efficiency levels than conventional rotary compressors. It employs two independently rotating cylinders that ensure well-balanced rotations and significantly reduced vibration noise.

## Whisper Quiet

The quietest wall mount in the Multizone range registers a sound level of just 20dBA while operating in its lowest mode. Multizone indoor units routinely operate between low and medium fan speeds, this is where it is very important to be quiet and where all Multizone units excel.

See figure 5

Fig 5



## Air Filtration

Multizone wall mount units feature Hitachi's cutting edge Nano-Titanium wasabi air purifying filters which capture and neutralise germs, bacteria, allergens, mould and odours. All Multizone indoor units include pre-filters that remove dust particles.

(Nano-Titanium filter optional for cassettes and not available for bulkheads)

See figure 6

Fig 6

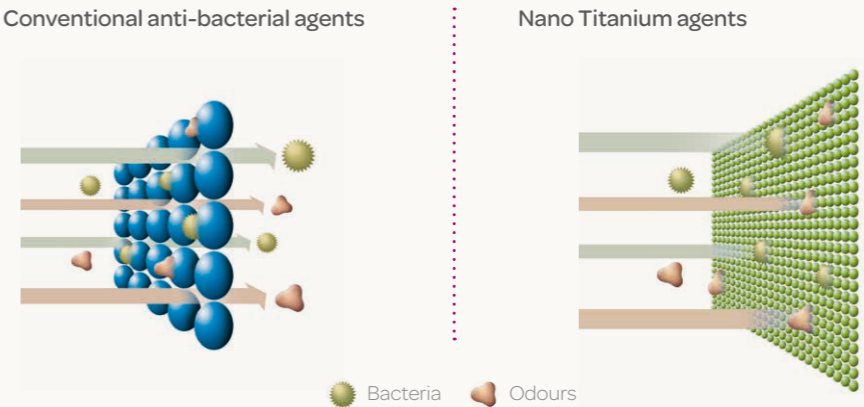


Fig 2

Inverter and non inverter performance

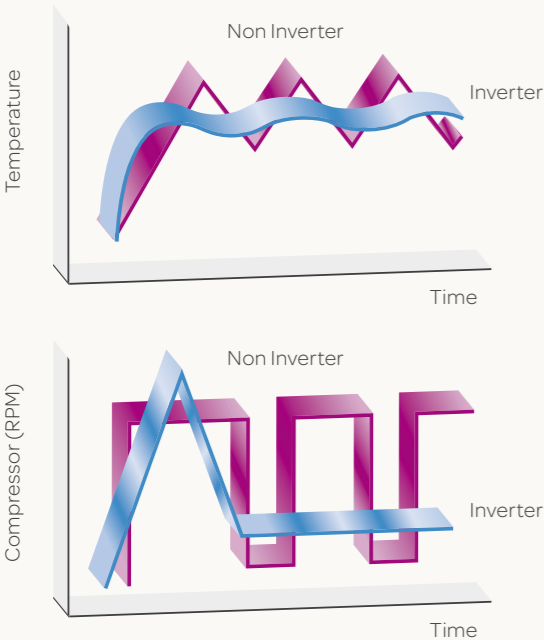


Fig 3

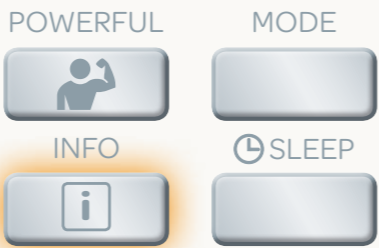
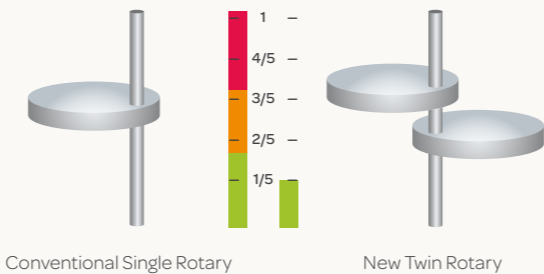


Fig 4

Comparison of vibration



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# Premium wireless control

## Complete Control

Wall mount and cassette units come with a premium weekly timer wireless controller\*, ensuring complete control from the comfort of your armchair

As well as offering your standard mode, louvre and fan speed control, Hitachi systems also incorporate an additional array of innovative features designed to make your life easier.



### Eco Mode

Programmed to run your system at a slightly reduced rate, Eco Mode will help keep your power consumption to minimum.

see figure 7

### Silent Mode

When required, you can drop your indoor unit down to the quietest mode at the push of a button for silent operation.

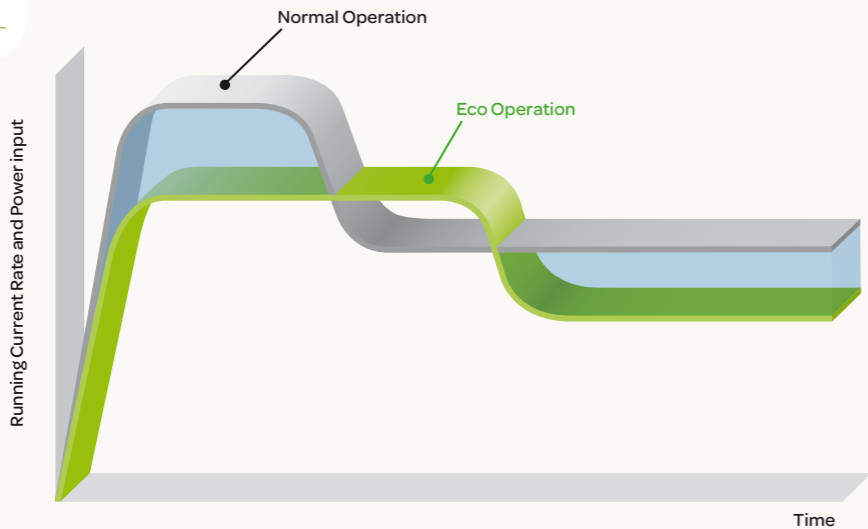
### Powerful Mode

Running your system at maximum output for 20-minutes, Powerful Mode projects airflow further and faster to cool or heat a room rapidly.

### One Touch Clean

Ensuring your unit stays clean is Hitachi's one touch clean which dries the indoor heat exchanger after cooling operation to prevent mildew.

Fig 7



\*Wireless remote optional for bulkhead units

## Tracking Power Consumption

The wireless controller enables you to monitor heat pump power usage\*, ensuring that there are no surprises when the electricity bill arrives.

(Not available for model RAM-110QHA2.)

See figure 8

## Sleep Mode

A function that adjusts fan speed and temperature to provide comfort conditioning while you're sleeping. Sleep Mode also prevents drafts that might disrupt a good night's sleep.

See figure 9

Fig 9

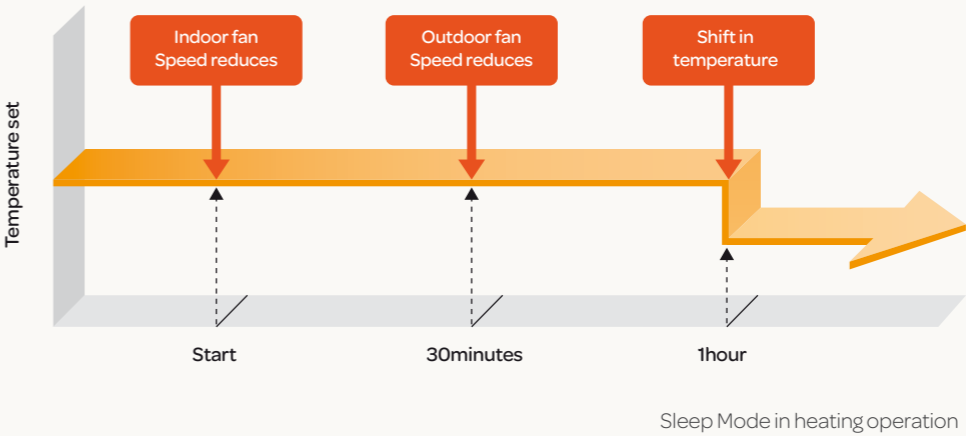
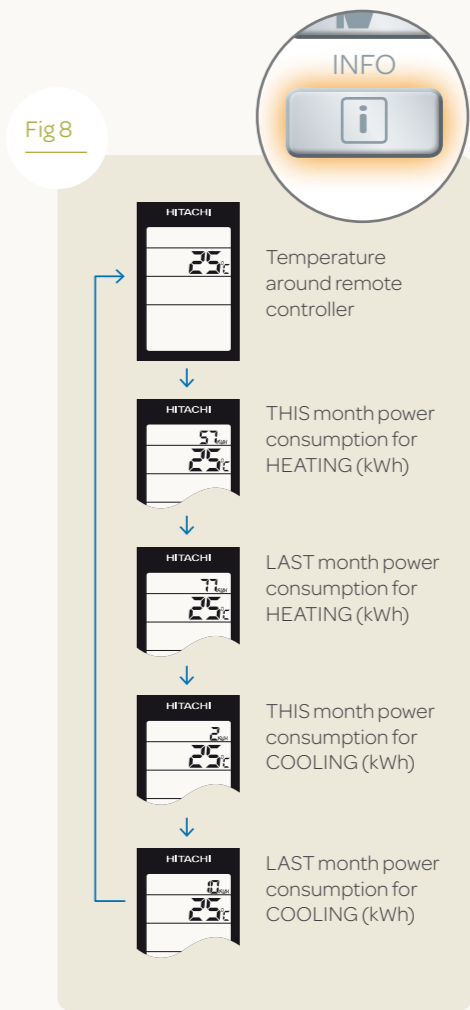


Fig 8



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# Premium wireless control



## Weekly Timer Function

Completely eliminating the need to manually control your air conditioner, the Weekly Timer function enables you to preset your unit to automatically turn on and off or change temperature to suit your weekly schedule. The seven-day timer function allows you to set up to six on/off time and temperature settings for each day of the week. You can even preset two seven-day schedules (mode A and B) and choose the desired schedule as required.

See figure 10

Fig 10

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
6:00	1 ON / 25°C	ON / 25°C	ON / 25°C	ON / 25°C	ON / 25°C	1 ON / 27°C	
8:00	2 OFF	OFF	OFF	OFF	OFF		
10:00						2 ON / 25°C	
12:00	3 ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C		
14:00	4 OFF	OFF	OFF	OFF	OFF		1 OFF
16:00						3 ON / 26°C	
18:00	5 ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C	ON / 27°C	4 ON / 27°C	
20:00							
22:00	6 OFF	OFF	OFF	OFF	OFF	5 OFF	2 OFF

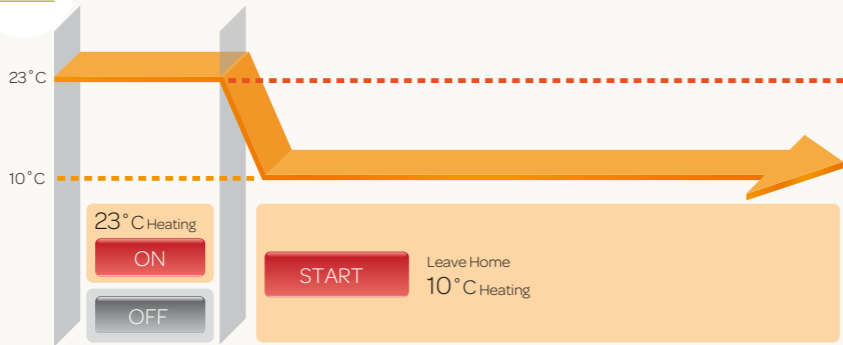
Example of a programmed seven day schedule over Winter.

## Leave Home Function

Allowing you to preset your air conditioner to start automatically if the internal temperature drops to 10°C while you're not at home, Leave Home Function is ideal for use in locations that experience very cold conditions. It can even be instrumental in preventing formation of dampness and mould.

See figure 11

Fig 11



Can be set to continuous, or set to come on at last settings after specified duration of up to 99 days

Wireless remote optional for bulkhead units

# Wired wall control

## Wired Wall Controller

The wired wall controller comes standard with bulkheads and is optional with wall mounts and cassettes. It includes a 24-hour timer function that allows you to preset run times and operational parameters.

See figure 12

Fig 12



RAD Series

# WiFi smartphone control

## Cloud based WiFi control option

With the WiFi controller, you can remotely control your wall mount or cassette with your smartphone or tablet from anywhere.

Turn it on or off, change mode, change temperature, adjust the fan speed and set a 7 day weekly scheduler.

The application allows for an unlimited number of users, and unlimited number of WiFi control devices to be connected. All connected users have real-time control and readings.

The WiFi control system is simply plug and play. Download the app, plug the WiFi control device into a power point then pair it with your home WiFi and it's all set up.



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# Wall Mounted (RAK)



## Wall Mounted (RAK)

Compact louvres rapidly deliver sweeping airflow to every corner of the room, eliminating dead zones and improving cooling and heating capabilities.

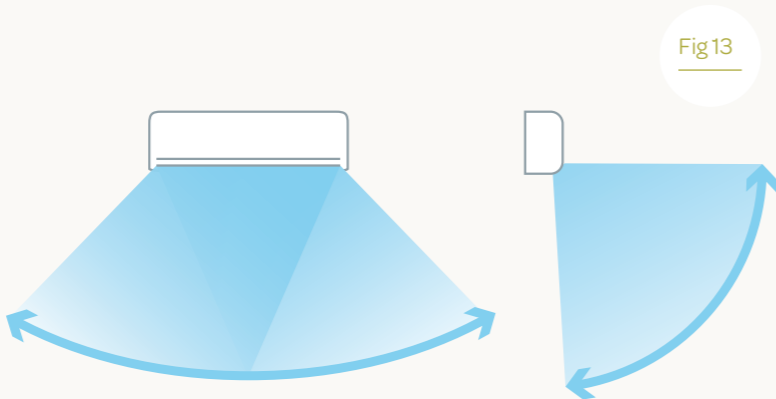
See figure 13

### Effective Air Distribution

Newly developed louvres deliver air quickly to every corner of the room with up/down and left/right\* automatic louvre operation. The powerful, sweeping airflow eliminates dead zones and improves the cooling and heating effect.

### Silent Operation

Trapezoidal fan blades cut the air diagonally to minimise frictional resistance, which in turn reduces sound levels and improves efficiency.



RAK-18/25/35/50NHA2  
Wall-mounted unit



RAK-60/70NHA2  
Wall-mounted unit



\*RAK-60/70 manual left right louvre operation.

## High Efficiency

The heat exchanger's advanced Lambda-shaped design, indoor cabinets wide suction area and graduated design grille increases heat exchanger efficiency and performance.

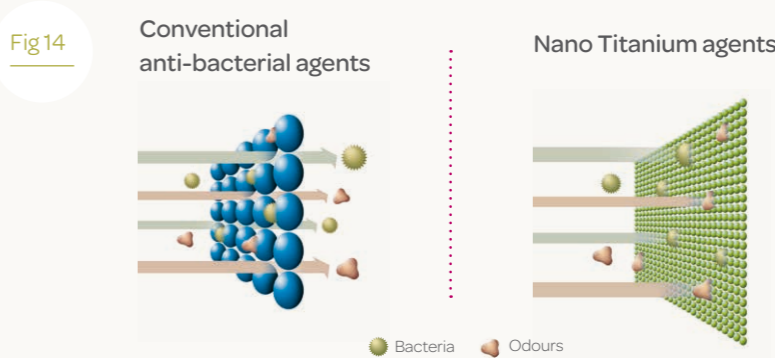
### Air Purifying Filter

Hitachi's Nano Titanium air purifying filter has been proven to effectively deactivate over **99% of bacteria** and **98% of allergens**. It can also remove up to 82% of odour molecules in the first hour alone. All units feature a washable antibacterial pre-filter that absorbs and collects larger dust and pollen particles.

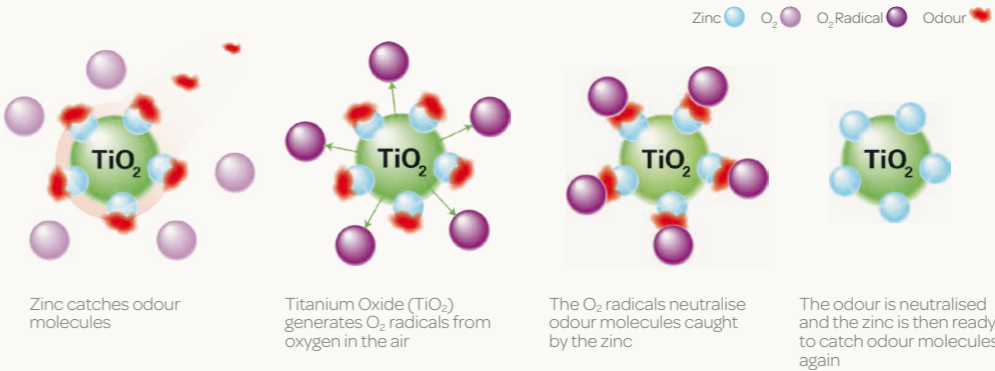
See figure 14

### Washable Anti Bacterial Pre Filter

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



### Principle of Nano Titanium's Action



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# Bulkhead Type (RAD)



## Concealed Unit

Subtle vents located throughout a home or office quietly and efficiently deliver conditioned air and maintain a constant temperature. The unit is easily installed within a ceiling or wardrobe and is ideal for retrofits or new homes.

See figure 15

## Built-In Drain Pump

The unit is equipped with an internal drain pump (100mm lift above drain connection) to remove accumulated condensate from the drain pan during operation. This allows greater installation flexibility.

See figure 16

## Static Pressure and Airflow

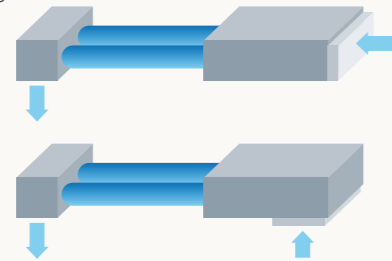
A highly effective multi-blade centrifugal fan provides efficient yet gentle airflow with minimal sound, even at high speeds.

## Wired Wall Controller

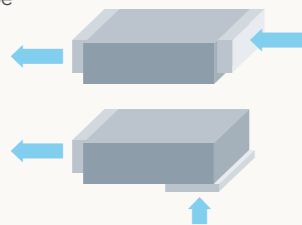
A wired wall controller (pg 11) comes standard with each bulkhead unit.

Fig15 Removable Pre-Filter and selectable air inlet

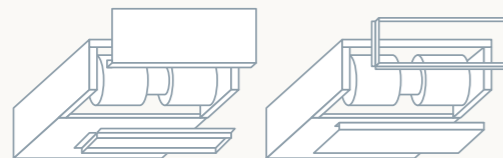
Semi-duct type



Non-duct type



Air inlet is selectable



Pre-filter is removable

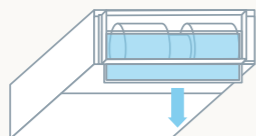
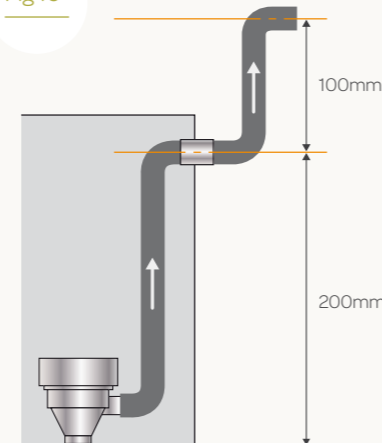


Fig16



## Bulkhead Optional Wireless Controller

The premium wireless controller is optional for bulkhead units and allows advanced functionality including power usage tracking, 7 day timer, ECO mode, Powerful mode and Leave Home function.



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# Cassette Type (RAI)



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## Discreet Unit

Discreet and economical, ceiling-mounted cassettes offer a highly effective solution for large open-plan areas or rooms with high ceilings. Usually centrally located, they enable valuable wall space integrity to be maintained.

See figure 17

## Flexible and Quiet Airflow System

The cassette can be configured to enable 2-way, 3-way or 4-way airflow. A super high-stream turbo fan enables greater airflow efficiency while minimising sound (just 25dB in Sleep mode) via its 3D-twisted wing design.

See figure 18

## Compact Size

Fits into a 600mm x 600mm standard ceiling module due to its very compact design. This makes it perfect for shops and offices and also minimises installation time.

See figure 19

## Built-In Drain Pump

The unit is equipped with an internal drain pump (115mm lift above drain connection) to remove accumulated condensate from the drain pan during operation. This allows greater installation flexibility.

See figure 20

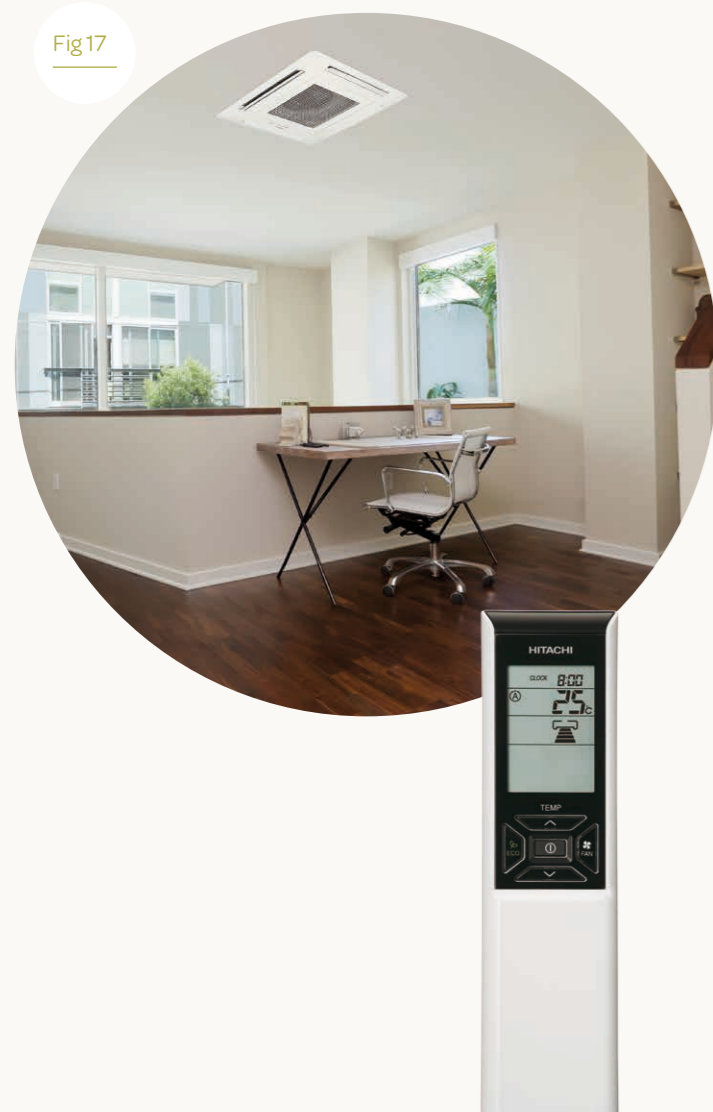


Fig 17

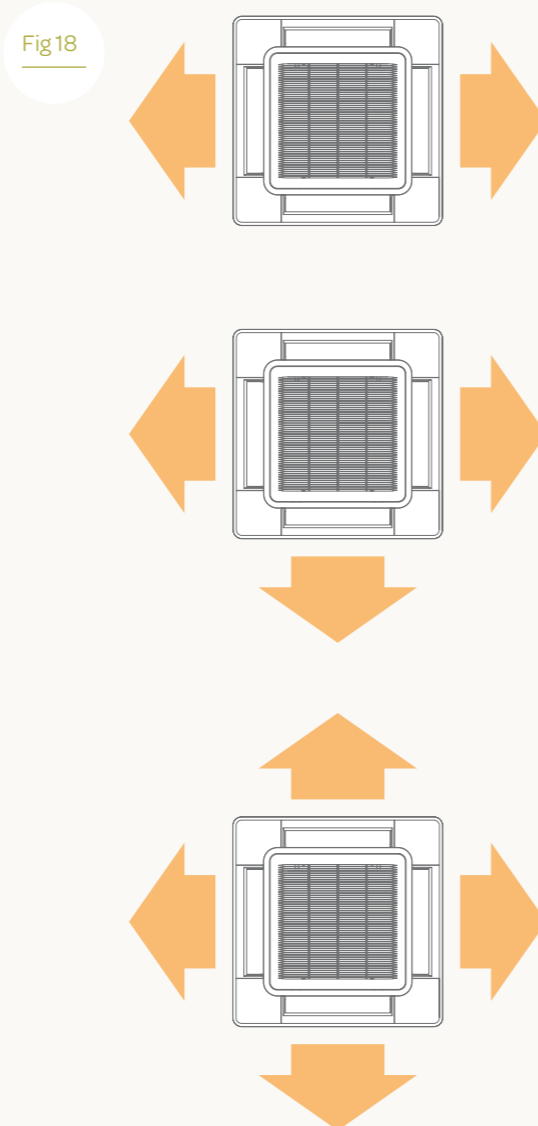


Fig 18

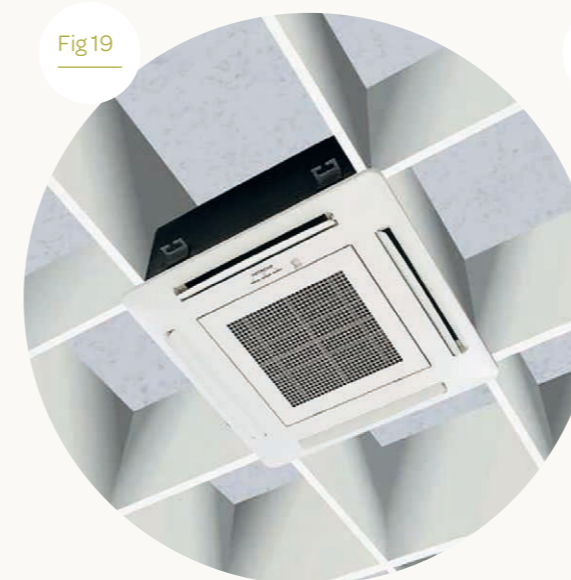


Fig 19

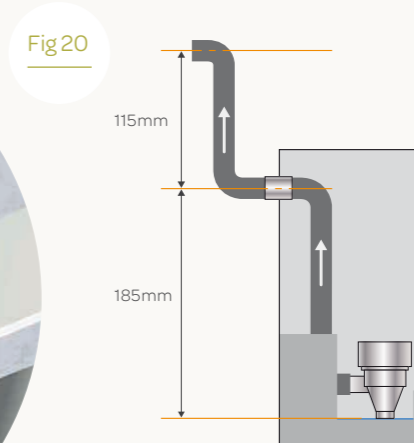


Fig 20

## One-Touch Panel






The panel can be swung open up to 90-degrees so that the washable filter can easily be removed for cleaning. The grill can also be removed for easy cleaning.




See figure 21



Fig 21

# Hitachi Multizone Range

Outdoor Unit Model	Nom Capacity kW Cool / Heat	Min / Max Nom Combination kW	Capacity Max Pipe Length (m)	Indoor Units Connectable
55QHA2				
	5.3 / 6.8	3.6 / 9.0	35	2
68QHA2				
	6.8 / 8.5	3.6 / 11.0	60	2 / 3
72QHA2				
	7.0 / 8.5	3.6 / 11.0	60	2 / 4
90QHA2				
	8.5 / 11.0	3.6 / 15.5	75	2 / 5
110QHA2				
	10.6 / 13.6	7.2 / 18.0	45 / 45	4 / 6

Indoor Unit Model Nominal cooling	1.8kW	2.5kW	3.5kW	5.0kW	6.0kW	7.0kW
RAK Series - Wall Mounted						
						
RAD Series - Bulkhead						
						
RCI Series - Cassette						
						



WiFi control available for RAK series and RAI series.



## 6 Year Warranty

An industry leading 6 year parts and labour warranty covers the Hitachi Multizone air conditioner for your home and office.



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# RAK Series Wall Mounted



Model : Indoor Unit	RAK-18NHA2	RAK-25NHA2	RAK-35NHA2	RAK-50NHA2	RAK-60NHA2	RAK-70NHA2
General Specifications						
Capacity						
Nominal Cooling Capacity (kW)	1.8	2.5	3.5	5.0	6.0	7.1
Nominal Heating Capacity (kW)	2.5	3.4	4.2	6.5	7.3	8.5
Airflow						
Cooling (l/sec) Hi / Med / Low / Super Low	133 / 112 / 83 / 67	142 / 117 / 102 / 80	168 / 133 / 102 / 67	217 / 150 / 113 / 83	225 / 175 / 127 / 88	258 / 183 / 137 / 115
Heating (l/sec) Hi / Med / Low / Super Low	150 / 125 / 97 / 67	158 / 133 / 117 / 80	192 / 142 / 117 / 67	225 / 158 / 113 / 92	250 / 192 / 158 / 142	290 / 192 / 158 / 142
Dimensions & Weights						
Dimensions (H x W x D mm)	300 x 790 x 230			295 x 1030 x 207		
Weight (kg)	10			11		
Colour	Clear White					
Sound Pressure Level						
Cooling Level dB(A) Hi / Med / Low / Super Low	35/30/26/20	38/32/26/20	41/35/29/25	47/39/31/27	47/42/33/28	48/42/33/30
Heating Level dB(A) Hi / Med / Low / Super Low	36/33/27/23	39/33/27/23	41 /35/30/26	47/39/31/27	47/42/34/33	49/42/34/33
Installer Specifications						
Power Supply						
Power Supply	35V DC from Outdoor Unit					
Running Current Cool/Heat	2.57 / 3.17	3.44 / 3.66	5.0 / 4.96	8.14 / 9.0	8.8 / 10.9	10.9 / 12.4
Installation						
Connections	Flare Nut Connection					
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 9.35		6.35 / 12.7		6.35 / 15.88	

# RAI Series 4 Way Cassette



Model : Indoor Unit	RAI-25NHA2	RAI-35NHA2	RAI-50NHA2
General Specifications			
Capacity			
Nominal Cooling Capacity (kW)	2.5	3.5	5.0
Nominal Heating capacity (kW)	3.5	4.8	6.2
Airflow			
Cooling (l/sec) Hi / Med / Low / Super Low	133 / 117 / 100 / 92	158 / 142 / 117 / 108	175 / 142 / 125 / 108
Heating (l/sec) Hi / Med / Low / Super Low	150 / 133 / 117 / 108	183 / 142 / 133 / 125	192 / 150 / 142 / 125
Dimensions & Weights			
Dimensions (H x W x D mm)	285 x 580 x 580		
Weight (kg)	20		
Adaptable Air Panel Model	RAI-ECPP		
Panel Size (mm) (H x W x Dmm)	32 x 650 x 650		
Panel Weight (kg)	4		
Colour	Pure White		
Sound Pressure Level			
Cooling Hi / Med / Low / Super Low	35 / 32 / 29 / 25	39 / 34 / 29 / 26	43 / 35 / 32 / 29
Heating Hi / Med / Low / Super Low	36 / 33 / 30 / 27	40 / 36 / 32 / 29	43 / 36 / 32 / 30
Installer Specifications			
Power Supply			
Power Supply	35V DC from Outdoor Unit		
Running Current Cool/Heat	3.2 / 4.3	5.05 / 6.24	9.1 / 9.87
Installation			
Connections			
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 9.52		6.35 / 12.7



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# RAD Series Ducted



Model : Indoor Unit	RAD-18NHA2	RAD-25NHA2	RAD-35NHA2	RAD-50NHA2
General Specifications				
Capacity				
Nominal Cooling Capacity (kW)	1.8	2.5	3.5	5.0
Nominal Heating capacity (kW)	2.5	3.5	4.8	6.0
Airflow				
Cooling (l/sec) Hi / Med / Low / Super Low	136 / 122 / 103 / 92	142 / 125 / 108 / 92	142 / 125 / 100 / 92	
Heating (l/sec) Hi / Med / Low / Super Low	153 / 125 / 103 / 92	167 / 133 / 117 / 100	175 / 133 / 117 / 100	
Dimensions & Weights				
Dimensions (H x W x D mm)	235 x 750 x 400			
Weight (kg)	16			
Sound Pressure Level				
Cooling Level dB(A) Hi / Med / Low / Super Low	36 / 34 / 31 / 29			38 / 35 / 32 / 29
Heating Level dB(A) Hi / Med / Low / Super Low	37 / 33 / 30 / 27			38 / 35 / 32 / 29
Installer Specifications				
Power Supply				
Power Supply	35V DC from Outdoor Unit			
Running Current Cool/Heat	2.56 / 3.2	3.19 / 4.45	5.69 / 7.81	9.10 / 9.87
Installation Connections				
Pipe Connection Sizes: Liquid Ømm / Gas Ømm	6.35 / 9.52			6.35 / 12.7



RAD Series

## Wired Wall Controller

The wired wall controller comes standard with bulkheads and is optional with wall mounts and cassettes. It includes a 24-hour timer function that allows you to preset run times and operational parameters.



## 6 Year Warranty

An industry leading 6 year parts and labour warranty covers the Hitachi Multizone air conditioner for your home and office.



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# RAM Series

## Outdoor Unit



Model : Outdoor Unit	RAM-55QHA2	RAM-68QHA2	RAM-72QHA2	RAM-90QHA2	RAM-110QHA2
General Specifications					
Capacity					
Cooling Capacity (kW)	5.3	6.8	7.0	8.5	10.6
Cooling Capacity Range (kW)	1.5 - 6.6	2.4 - 8.8	2.4 - 8.8	1.5 - 9.5	1.5 - 13.2
Heating Capacity (kW)	6.8	8.5	8.5	11.0	13.6
Heating Capacity Range (kW)	1.5 - 7.2	2.8 - 9.5	2.8 - 9.5	1.5 - 11.5	1.5 - 14.4
EER / AEER	3.63 / 3.53	3.37 / 3.29	3.37 / 3.28	3.32 / 3.23	3.62 / 3.52
COP / ACOP	3.98 / 3.88	3.54 / 3.48	3.54 / 3.46	3.54 / 3.46	3.95 / 3.85
Multi Head Connection					
No. Of Indoor Units (Min / Max)	2 / 2	2 / 3	2 / 4	2 / 5	2 / 3 per Ref. Circuit
Dimensions & Weights					
Outdoor Unit (H x W x D mm)	650 x 850 x 298	800 x 850 x 298		800 x 950 x 370	1450 x 855 x 308
Weight kg	50	55		71	113
Sound Pressure Level					
Outdoor Unit dB(a) Cool / Heat	52 / 53	53 / 56		55 / 58	55 / 56
Working Range					
Cooling (°C db)	-10° / 46°				
Heating (°C db)	-15° / 21°				

Model : Outdoor Unit	RAM-55QHA2	RAM-68QHA2	RAM-72QHA2	RAM-90QHA2	RAM-110QHA2
Installer Specifications					
Piping					
Pipe Connection Sizes					
Liquid Ømm	2 x 6.35	3 x 6.35	4 x 6.35	5 x 6.35	6 x 6.35
Gas Ømm	2 x 9.52	3 x 9.52	1 x 12.7 / 3 x 9.52	2 x 12.7 / 3 x 9.52	6 x 9.52
Refrigerant	R 410A				
Refrigerant Flow Control	Electronic Expansion Valve				
Max Pipe Length (m) per circuit	35	60	60	75	45
Number of Circuits	1			2	
Individual Pipe Length (m)	25				
Max Pre Charged Length (m)	35	30			35
Max Pipe Lift (m)	20				
Max Height between Indoor Units	5				
Compressor Type	1 x DC Twin Rotary			2 x DC Twin Rotary	
Condenser Fan Air Flow l/s	600	750		1083	1200
Electrical					
Power Supply	240/1/50				
Run Current - Heating / Cooling	7.0/8.2	9.7/10.5	9.7/9.7	10.2/11.3	19.2/17.4
Recommended Fuse size	16	20	20	25	25
Interconnection Wires mains	2C + E 1.5mm² *				

\* RAK-70NHA2 Interconnection 4C + E



Inverter  
Multizone

# RAM-55QHA2

## Capacities and Selection Data

One unit									
Possible combinations to operate	Cooling				Heating				
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	
1.8	1.8	1.8	495	2.10	2.5	2.5	690	2.9	
2.5	2.5	2.5	700	2.90	3.9	3.9	1060	4.5	
3.5	3.5	3.5	1030	4.30	4.8	4.8	1320	5.6	
5.0	5.0	5.0	1510	6.40	6.5	6.5	1800	7.6	

Two Units									
Possible combinations to operate	Cooling				Heating				
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	
1.8 + 1.8	1.8 + 1.8	3.6	1015	4.30	2.5 + 2.5	5.0	1290	5.4	
1.8 + 2.5	1.5 + 2.5	4.3	1167	4.90	2.5 + 3.9	6.4	1700	7.2	
1.8 + 3.5	1.8 + 3.5	5.3	1500	6.30	2.31 + 4.49	6.8	1850	7.8	
1.8 + 5.0	1.8 + 3.9	5.3	1528	6.40	1.8 + 5.0	6.8	1820	7.7	
2.5 + 2.5	2.5 + 2.5	5	1440	6.1	3.4 + 3.4	6.8	1885	7.9	
2.5 + 3.5	2.21 + 3.09	5.3	1530	6.4	2.83 + 3.97	6.8	1820	7.7	
3.5 + 3.5	2.65 + 2.65	5.3	1530	6.4	3.4 + 3.4	6.8	1790	7.5	
2.5 + 5.0	1.77 + 3.53	5.3	1530	6.4	2.27 + 4.53	6.8	1790	7.5	

- 2 units must be connected to the outdoor unit to avoid water condensation
- 1 units values are for one unit operation with 2 indoor units connected
- Total nominal cooling capacity should not exceed 9.0kW

# RAM-68QHA2

## Capacities and Selection Data

One unit									
Possible combinations to operate	Cooling				Heating				
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	
1.8	1.8	1.8	450	1.90	2.5	2.5	850	3.6	
2.5	2.5	2.5	650	2.70	3.4	3.4	1130	4.8	
3.5	3.5	3.5	1030	4.30	4.3	4.3	1520	6.4	
5.0	5.0	5.0	1640	6.90	6.5	6.5	2400	10.1	

Two Units									
1.8 + 1.8	1.8 + 1.8	3.6	830	3.50	2.5 + 2.5	5	1380	5.8	
1.8 + 2.5	1.8 + 2.5	4.3	1120	4.70	2.5 + 3.4	5.9	1680	7.1	
1.8 + 3.5	1.8 + 3.5	5.3	1600	6.70	2.5 + 4.3	6.8	2030	8.5	
1.8 + 5.0	1.8 + 5.0	6.8	2420	10.20	2.36 + 6.14	8.5	2470	10.4	
2.5 + 2.5	2.5 + 2.5	5.0	1410	5.9	3.6 + 3.6	7.2	2070	8.7	
2.5 + 3.5	2.5 + 3.5	6.0	1950	8.2	3.6 + 4.3	7.9	2420	10.2	
2.5 + 5.0	2.3 + 4.5	6.8	2420	10.2	2.92 + 5.58	8.5	2470	10.4	
3.5 + 3.5	3.4 + 3.4	6.8	2555	10.8	4.25 + 4.25	8.5	2640	11.1	
3.5 + 5.0	2.8 + 4.0	6.8	2420	10.2	3.38 + 5.12	8.5	2470	10.4	
5.0 + 5.0	3.4 + 3.4	6.8	2420	10.2	4.25 + 4.25	8.5	2470	10.4	

Three units									
1.8 + 1.8 + 1.8	1.8 + 1.8 + 1.8	5.4	1250	5.3	2.5 + 2.5 + 2.5	7.5	2050	8.6	
1.8 + 1.8 + 2.5	1.8 + 1.8 + 2.5	6.1	1590	6.7	2.5 + 2.5 + 3.4	8.4	2290	9.6	
1.8 + 1.8 + 3.5	1.72 + 1.72 + 3.36	6.8	2080	8.8	2.28 + 2.28 + 3.94	8.5	2290	9.6	
1.8 + 1.8 + 5.0	1.42 + 1.42 + 3.96	6.8	2080	8.8	1.85 + 1.85 + 4.8	8.5	2290	9.6	
1.8 + 2.5 + 2.5	1.8 + 2.5 + 2.5	6.8	2040	8.6	2.28 + 3.11 + 3.11	8.5	2290	9.6	
1.8 + 2.5 + 3.5	1.57 + 2.18 + 3.05	6.8	2040	8.6	2.08 + 2.83 + 3.59	8.5	2290	9.6	
1.8 + 2.5 + 5.0	1.32 + 1.83 + 3.65	6.8	2040	8.6	1.71 + 2.33 + 4.46	8.5	2290	9.6	
1.8 + 3.5 + 3.5	1.4 + 2.7 + 2.7	6.8	2040	8.6	1.92 + 3.29 + 3.29	8.5	2290	9.6	
1.8 + 3.5 + 5.0	1.2 + 2.3 + 3.3	6.8	2040	8.6	1.6 + 2.75 + 4.15	8.5	2290	9.6	
2.5 + 2.5 + 2.5	2.26 + 2.27 + 2.27	6.8	2040	8.6	2.83 + 2.83 + 2.84	8.5	2290	9.6	
2.5 + 2.5 + 3.5	2.0 + 2.0 + 2.8	6.8	2040	8.6	2.6 + 2.6 + 3.3	8.5	2290	9.6	
2.5 + 2.5 + 5.0	1.7 + 1.7 + 3.4	6.8	2040	8.6	2.17 + 2.17 + 4.16	8.5	2290	9.6	
2.5 + 3.5 + 3.5	1.78 + 2.51 + 2.51	6.8	2040	8.6	2.4 + 3.05 + 3.05	8.5	2290	9.6	
2.5 + 3.5 + 5.0	1.55 + 2.16 + 3.09	6.8	2040	8.6	2.04 + 2.57 + 3.89	8.5	2290	9.6	
3.5 + 3.5 + 3.5	2.26 + 2.27 + 2.27	6.8	2040	8.6	2.83 + 2.83 + 2.84	8.5	2290	9.6	

- 2 units must be connected to the outdoor unit to avoid water condensation
- 1 units values are for one unit operation with 2 indoor units connected
- Total nominal cooling capacity should not exceed 11.0kW



Inverter  
Multizone

# RAM-72QHA2

## Capacities and Selection Data



Inverter  
Multizone

### One unit

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V
1.8	1.8	1.8	450	1.90	2.5	2.5	850	3.6
2.5	2.5	2.5	650	2.70	3.4	3.4	1130	4.8
3.5	3.5	3.5	1030	4.30	4.3	4.3	1520	6.4
5.0	5.0	5.0	1640	6.90	6.5	6.5	2400	10.1
6.0	6.0	6.0	2080	8.80	7.3	7.3	2590	10.9
7.0	7.0	7.0	2580	10.90	8.5	8.5	2940	12.4

### Two Units

1.8+1.8	1.8+1.8	3.6	830	3.5	2.5+2.5	5.0	1380	5.8
1.8+2.5	1.8+2.5	4.3	1120	4.7	2.5+3.4	5.9	1680	7.1
1.8+3.5	1.8+3.5	5.3	1600	6.7	2.5+4.3	6.8	2030	8.5
1.8+5.0	1.8+5.0	6.8	2420	10.2	2.36+6.14	8.5	2470	10.4
1.8+6.0	1.7+5.3	7.0	2450	10.3	2.17+6.33	8.5	2580	10.9
1.8+7.0	1.43+5.57	7.0	2450	10.3	1.93+6.57	8.5	2640	11.1
2.5+2.5	2.5+2.5	5.0	1410	5.9	3.6+3.6	7.2	2070	8.7
2.5+3.5	2.5+3.5	6.0	1950	8.2	3.6+4.3	7.2	2420	10.2
2.5+5.0	2.33+4.67	7.0	2490	10.5	2.92+5.58	8.5	2640	11.1
2.5+6.0	2.1+4.9	7.0	2450	10.3	2.7+5.8	8.5	2640	11.1
2.5+7.0	1.84+5.16	7.0	2450	10.3	2.43+6.07	8.5	2640	11.1
3.5+3.5	3.5+3.5	7.0	2630	11.1	4.25+4.25	8.5	2640	11.1
3.5+5.0	2.88+4.12	7.0	2490	10.5	3.38+5.12	5.8	2640	11.1
3.5+6.0	2.6+4.4	7.0	2450	10.3	3.15+5.35	8.5	2640	11.1
3.5+7.0	2.33+4.67	7.0	2490	10.5	2.86+5.64	8.5	2640	11.1
5.0+5.0	3.5+3.5	7.0	2490	10.5	4.25+4.25	8.5	2640	11.1
5.0+6.0	3.2+3.8	7.0	2360	9.9	4.0+4.5	8.5	2640	11.1

- 2 or 3 indoor units can be installed with 1 outdoor unit
- 1 units values are for one unit operation with 2 indoor units connected
- Total nominal cooling capacity should not exceed 11.0kW

### Three units

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V
1.8+1.8+1.8	1.8+1.8+1.8	5.4	1250	5.3	2.5+2.5+2.5	7.5	2050	8.6
1.8+1.8+2.5	1.8+1.8+2.5	6.1	1590	6.7	2.5+2.5+3.4	8.4	2290	9.6
1.8+1.8+3.5	1.77+1.77+3.46	7.0	2080	8.8	2.28+2.28+3.94	8.5	2400	10.1
1.8+1.8+5.0	1.47+1.47+4.06	7.0	2080	8.8	1.85+1.85+4.80	8.5	2280	9.6
1.8+1.8+6.0	1.35+1.35+4.3	7.0	2100	8.8	1.73+1.73+5.04	8.5	2320	9.8
1.8+1.8+7.0	1.1+1.1+4.8	7.0	2100	8.8	1.55+1.55+5.4	8.5	2320	9.8
1.8+2.5+2.5	1.8+2.5+2.5	6.8	2040	8.6	2.28+3.11+3.11	8.5	2290	9.6
1.8+2.5+3.5	1.62+2.24+3.14	7.0	2040	8.6	2.08+2.83+3.59	8.5	2290	9.6
1.8+2.5+5.0	1.35+1.88+3.77	7.0	2040	8.6	1.71+2.33+4.46	8.5	2280	9.6
1.8+2.5+6.0	1.2+1.7+4.1	7.0	2040	8.6	1.61+2.19+4.70	8.5	2320	9.8
1.8+3.5+3.5	1.44+2.78+2.78	7.0	2040	8.6	1.92+3.29+3.29	8.5	2290	9.6
1.8+3.5+5.0	1.22+2.38+3.4	7.0	2040	8.6	1.6+2.75+4.15	8.5	2280	9.6
2.5+2.5+2.5	2.33+2.33+2.34	7.0	2040	8.6	2.83+2.83+2.84	8.5	2290	9.6
2.5+2.5+3.5	2.06+2.06+2.88	7.0	2040	8.6	2.6+2.6+3.3	8.5	2290	9.6
2.5+2.5+5.0	1.75+1.75+3.5	7.0	2040	8.6	2.17+2.17+4.16	8.5	2280	9.6
2.5+2.5+6.0	1.6+1.6+3.8	7.0	2080	8.8	2.05+2.05+4.4	8.5	2320	9.6
2.5+3.5+3.5	1.84+2.58+2.58	7.0	2040	8.6	2.4+3.05+3.05	8.5	2290	9.6
2.5+3.5+5.0	1.59+2.23+3.18	7.0	2040	8.6	2.04+2.57+3.89	8.5	2280	9.6
3.5+3.5+3.5	2.33+2.33+2.34	7.0	2040	8.6	2.83+2.83+2.84	8.5	2280	9.6

### Four units

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V
1.8+1.8+1.8+1.8	1.75+1.75+1.75+1.75	7.0	2110	8.9	2.12+2.12+2.13+2.13	8.5	2120	8.9
1.8+1.8+1.8+2.5	1.59+1.59+1.59+2.23	7.0	2110	8.9	1.95+1.95+1.95+2.65	8.5	2120	8.9
1.8+1.8+1.8+3.5	1.42+1.42+1.42+2.74	7.0	2110	8.9	1.8+1.8+1.8+3.1	8.5	2120	8.9
1.8+1.8+1.8+5.0	1.21+1.21+1.21+3.37	7.0	2110	8.9	1.52+1.52+1.52+3.94	8.5	2120	8.9
1.8+1.8+2.5+2.5	1.47+1.47+2.03+2.03	7.0	2110	8.9	1.8+1.8+2.45+2.45	8.5	2120	8.9
1.8+1.8+2.5+3.5	1.31+1.31+1.82+2.56	7.0	2110	8.9	1.67+1.67+2.28+2.88	8.5	2120	8.9
1.8+1.8+3.5+3.5	1.19+1.19+2.31+2.31	7.0	2110	8.9	1.56+1.56+2.69+2.69	8.5	2120	8.9
1.8+2.5+2.5+2.5	1.36+1.88+1.88+1.88	7.0	2110	8.9	1.66+2.28+2.28+2.28	8.5	2120	8.9
1.8+2.5+2.5+3.5	1.22+1.7+1.7+2.38	7.0	2110	8.9	1.56+2.13+2.13+2.68	8.5	2120	8.9
2.5+2.5+2.5+2.5	1.75+1.75+1.75+1.75	7.0	2110	8.9	2.12+2.12+2.13+2.13	8.5	2120	8.9
2.5+2.5+2.5+3.5	1.59+1.59+1.59+2.23	7.0	2110	8.9	1.99+1.99+1.99+2.53	8.5	2120	8.9

# RAM-90QHA2

## Capacities and Selection Data



Inverter  
Multizone

One unit

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
1.8	1.8	1.8	500	2.10	2.5	2.5	780	3.3
2.5	2.5	2.5	700	2.90	3.4	3.4	1140	4.8
3.5	3.5	3.5	1040	4.40	4.3	4.3	1420	6.0
5.0	5.0	5.0	1540	6.50	6.5	6.5	2300	9.7
6.0	6.0	6.0	2100	8.80	7.3	7.3	2630	11.1
7.0	7.0	7.0	2600	10.90	8.5	8.5	3100	13.1

Two Units

1.8+1.8	1.8+1.8	3.6	710	3.00	2.5+2.5	5.0	1240	5.3
1.8+2.5	1.8+2.5	4.3	1000	4.20	2.5+3.4	5.9	1530	6.5
1.8+3.5	1.8+3.5	5.3	1590	6.70	2.5+4.3	6.8	1870	7.9
1.8+5.0	1.8+5.0	6.8	2470	10.40	2.39+6.21	8.6	2470	10.4
1.8+6.0	1.8+6.0	7.8	2590	10.9	2.4+7.0	9.4	2770	11.7
1.8+7.0	1.8+7.0	8.8	2780	11.7	2.23+7.57	9.8	2770	11.7
2.5+2.5	2.5+2.5	5.0	1370	5.8	3.4+3.4	6.8	1810	7.7
2.5+3.5	2.5+3.5	6.0	2000	8.4	3.4+4.3	7.7	2160	9.1
2.5+5.0	2.5+5.0	7.5	2880	12.1	3.16+6.04	9.2	2720	11.5
2.5+6.0	2.5+6.0	8.5	2750	11.6	3.08+6.62	9.7	2940	12.4
2.5+7.0	2.37+6.63	9.0	2870	12.1	2.91+7.29	10.2	3270	13.8
3.5+3.5	3.5+3.5	7.0	2490	10.5	4.3+4.3	8.6	2460	10.4
3.5+5.0	3.5+5.0	8.5	2730	11.5	3.86+5.84	9.7	2940	12.4
3.5+6.0	3.32+5.68	9.0	2860	12	3.78+6.42	10.2	3130	13.2
3.5+7.0	3.0+6.0	9.0	2990	12.6	3.49+6.91	10.4	3130	13.2
5.0+5.0	4.5+4.5	9.0	2900	12.2	5.1+5.1	10.2	2860	12.1
5.0+6.0	4.09+4.91	9.0	3080	13	4.9+5.5	10.4	3140	13.3
5.0+7.0	3.75+5.25	9.0	3200	13.5	4.77+6.23	11.0	3140	13.3
6.0+6.0	4.5+4.5	9.0	3350	14.1	5.5+5.5	11.0	3520	14.9
6.0+7.0	4.15+4.85	9.0	3180	13.4	5.08+5.92	11.0	3520	14.9
7.0+7.0	4.5+4.5	9.0	3180	13.4	5.5+5.5	11.0	3520	14.9

• 2, 3, 4 or 5 indoor units can be installed with 1 outdoor unit  
• 1 units values are for one unit operation with 2 indoor units connected  
• Total nominal cooling capacity should not exceed 15.5kW

Three units

Possible combinations to operate	Cooling					Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V		Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
1.8+1.8+1.8	1.8+1.8+1.8	5.4	1480	6.2		2.5+2.5+2.5	7.5	2020	8.5
1.8+1.8+2.5	1.8+1.8+2.5	6.1	1780	7.5		2.38+2.38+3.24	8.0	2210	9.3
1.8+1.8+3.5	1.8+1.8+3.5	7.1	1910	8.0		2.37+2.37+4.06	8.8	2370	10
1.8+1.8+5.0	1.8+1.8+5.0	8.6	2680	11.3		2.2+2.2+5.7	10.1	2730	11.5
1.8+1.8+6.0	1.69+1.69+5.62	9.0	2700	11.4		2.11+2.11+6.18	10.4	3060	12.9
1.8+1.8+7.0	1.53+1.53+5.94	9.0	2740	11.5		1.93+1.93+6.54	10.4	2990	12.6
1.8+2.5+2.5	1.8+2.5+2.5	6.8	1860	7.8		2.3+3.15+3.15	8.6	2370	10
1.8+2.5+3.5	1.8+2.5+3.5	7.8	2190	9.2		2.3+3.13+3.97	9.4	2530	10.7
1.8+2.5+5.0	1.75+2.40+4.85	9.0	2700	11.4		2.1+2.85+5.45	10.4	2890	12.2
1.8+2.5+6.0	1.58+2.18+5.24	9.0	2740	11.5		1.97+2.68+5.75	10.4	2990	12.6
1.8+2.5+7.0	1.44+1.99+5.57	9.0	2740	11.5		1.81+2.46+6.13	10.4	2990	12.6
1.8+3.5+3.5	1.8+3.5+3.5	8.8	2690	11.3		2.34+4.03+4.03	10.4	2750	11.6
1.8+3.5+5.0	1.55+3.05+4.4	9.0	2740	11.5		1.95+3.36+5.09	10.4	2990	12.6
1.8+3.5+6.0	1.43+2.79+4.78	9.0	2740	11.5		1.84+3.17+5.39	10.4	2990	12.6
1.8+3.5+7.0	1.32+2.56+5.12	9.0	2740	11.5		1.72+2.95+5.83	10.5	2990	12.6
1.8+5.0+5.0	1.38+3.81+3.81	9.0	2740	11.5		1.68+4.36+4.36	10.4	2990	12.6
1.8+5.0+6.0	1.27+3.52+4.21	9.0	2710	11.4		1.61+4.19+4.70	10.5	2990	12.6
1.8+5.0+7.0	1.17+3.26+4.57	9.0	2710	11.4		1.57+4.09+5.34	11.0	2990	12.6
1.8+6.0+6.0	1.18+3.91+3.91	9.0	2740	11.5		1.60+4.70+4.70	11.0	3040	12.8
1.8+6.0+7.0	1.10+3.65+4.25	9.0	2880	12.1		1.49+4.39+5.12	11.0	3040	12.8
2.5+2.5+2.5	2.5+2.5+2.5	7.5	2120	8.9		3.0+3.0+3.0	9.0	2540	10.7
2.5+2.5+3.5	2.5+2.5+3.5	8.5	2560	10.8		3.06+3.06+3.88	10.0	2740	11.6
2.5+2.5+5.0	2.25+2.25+4.5	9.0	2780	11.7		2.66+2.66+5.08	10.4	2990	12.6
2.5+2.5+6.0	2.05+2.05+4.9	9.0	2780	11.7		2.51+2.51+5.38	10.4	2990	12.6
2.5+2.5+7.0	1.88+1.88+5.24	9.0	2840	12.0		2.34+2.34+5.82	10.5	2990	12.6
2.5+3.5+3.5	2.36+3.32+3.32	9.0	2750	11.6		2.94+3.73+3.73	10.4	2890	12.2
2.5+3.5+5.0	2.05+2.85+4.10	9.0	2770	11.7		2.49+3.14+4.77	10.4	2990	12.6
2.5+3.5+6.0	1.88+2.62+4.5	9.0	2780	11.7		2.39+3.0+5.11	10.5	2990	12.6
2.5+3.5+7.0	1.73+2.41+4.86	9.0	2780	11.7		2.2+2.78+5.51	10.5	2990	12.6
2.5+5.0+5.0	1.8+3.6+3.6	9.0	2780	11.7		2.18+4.16+4.16	10.5	2990	12.6
2.5+5.0+6.0	1.67+3.33+4.0	9.0	2780	11.7		2.08+3.97+4.46	10.5	2990	12.6
2.5+5.0+7.0	1.55+3.1+4.35	9.0	2850	12.0		2.03+3.89+5.08	11.0	2890	12.2
2.5+6.0+6.0	1.56+3.72+3.72	9.0	2780	11.7		2.08+4.46+4.46	11.0	2890	12.2
3.5+3.5+3.5	3.0+3.0+3.0	9.0	2740	11.5		3.46+3.47+3.47	10.4	2990	12.6
3.5+3.5+5.0	2.65+2.65+3.70	9.0	2780	11.7		2.99+3.01+4.5	10.5	2990	12.6
3.5+3.5+6.0	2.4+2.4+4.2	9.0	2780	11.7		2.82+2.82+4.86	10.5	2990	12.6
3.5+3.5+7.0	2.23+2.23+4.54	9.0	2850	12.0		2.75+2.75+5.5	11.0	2890	12.2
3.5+5.0+5.0	2.3+3.35+3.35	9.0	2780	11.7		2.6+3.95+3.95	10.5	2990	12.6
3.5+5.0+6.0	2.18+3.1+3.72	9.0	2850	12.0		2.6+3.95+4.45	11.0	2890	12.2
3.5+6.0+6.0	2.04+3.48+3.48	9.0	2850	12.0		2.5+4.25+4.25	11.0	2890	12.2
5.0+5.0+5.0	3.0+3.0+3.0	9.0	2850	12.0		3.67+3.67+3.67	11.0	2890	12.2

# RAM-90QHA2

## Capacities and Selection Data



Inverter  
Multizone

### Four Units

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V
1.8+1.8+1.8+1.8	1.8+1.8+1.8+1.8	7.2	1800	7.6	2.4+2.4+2.4+2.4	9.6	2400	10.1
1.8+1.8+1.8+2.5	1.8+1.8+1.8+2.5	7.9	2090	8.8	2.25+2.25+2.25+3.05	9.8	2700	11.4
1.8+1.8+1.8+3.5	1.8+1.8+1.8+3.5	8.9	2530	10.6	2.16+2.16+2.16+3.72	10.2	2700	11.4
1.8+1.8+1.8+5.0	1.55+1.55+1.55+4.35	9.0	2530	10.6	1.82+1.81+1.81+4.76	10.2	2700	11.4
1.8+1.8+1.8+6.0	1.4+1.4+1.4+4.8	9.0	2530	10.6	1.72+1.71+1.71+5.06	10.2	2700	11.4
1.8+1.8+1.8+7.0	1.29+1.29+1.29+5.13	9.0	2530	10.6	1.59+1.58+1.58+5.45	10.2	2700	11.4
1.8+1.8+2.5+2.5	1.8+1.8+2.5+2.5	8.6	2350	9.9	2.12+2.12+2.88+2.88	10.0	2700	11.4
1.8+1.8+2.5+3.5	1.69+1.69+2.34+3.28	9.0	2530	10.6	2.01+2.01+2.73+3.45	10.2	2700	11.4
1.8+1.8+2.5+5.0	1.45+1.45+2.02+4.08	9.0	2530	10.6	1.7+1.7+2.3+4.5	10.2	2700	11.4
1.8+1.8+2.5+6.0	1.35+1.35+1.85+4.45	9.0	2530	10.6	1.63+1.63+2.2+4.74	10.2	2700	11.4
1.8+1.8+2.5+7.0	1.25+1.25+1.7+4.80	9.0	2530	10.6	1.55+1.55+2.08+5.22	10.4	2700	11.4
1.8+1.8+3.5+3.5	1.53+1.53+2.97+2.97	9.0	2530	10.6	1.88+1.88+3.22+3.22	10.2	2700	11.4
1.8+1.8+3.5+5.0	1.35+1.35+2.6+3.7	9.0	2530	10.6	1.62+1.62+2.78+4.18	10.2	2700	11.4
1.8+1.8+3.5+6.0	1.25+1.25+2.4+4.1	9.0	2530	10.6	1.58+1.58+2.69+4.55	10.4	2700	11.4
1.8+1.8+3.5+7.0	1.16+1.16+2.23+4.45	9.0	2530	10.6	1.55+1.55+2.66+5.24	11.0	2630	11.1
1.8+1.8+5.0+5.0	1.2+1.2+3.3+3.3	9.0	2510	10.6	1.45+1.45+3.75+3.75	10.4	2700	11.4
1.8+1.8+5.0+6.0	1.1+1.1+3.1+3.7	9.0	2510	10.6	1.46+1.45+3.82+4.28	11.0	2630	11.1
1.8+2.5+2.5+2.5	1.8+2.4+2.4+2.4	9.0	2530	10.6	2.01+2.73+2.73+2.73	10.2	2700	11.4
1.8+2.5+2.5+3.5	1.6+2.2+2.2+3.0	9.0	2530	10.6	1.88+2.57+2.57+3.18	10.2	2700	11.4
1.8+2.5+2.5+5.0	1.4+1.9+1.9+3.8	9.0	2530	10.6	1.61+2.2+2.2+4.19	10.2	2700	11.4
1.8+2.5+2.5+6.0	1.3+1.75+1.75+4.2	9.0	2530	10.6	1.54+2.08+2.08+4.5	10.2	2700	11.4
1.8+2.5+2.5+7.0	1.2+1.62+1.62+4.56	9.0	2540	10.7	1.54+2.09+2.09+5.28	11.0	2800	11.8
1.8+2.5+3.5+3.5	1.4+2.0+2.8+2.8	9.0	2530	10.6	1.74+2.4+3.03+3.03	10.2	2700	11.4
1.8+2.5+3.5+5.0	1.3+1.75+2.45+3.5	9.0	2530	10.6	1.53+2.1+2.62+3.95	10.2	2700	11.4
1.8+2.5+3.5+6.0	1.2+1.6+2.3+3.9	9.0	2530	10.6	1.57+2.11+2.72+4.6	11.0	2800	11.8
1.8+2.5+3.5+7.0	1.12+1.49+2.15+4.25	9.0	2530	10.6	1.49+1.97+2.55+4.99	11.0	2630	11.1
1.8+2.5+5.0+5.0	1.15+1.55+3.15+3.15	9.0	2510	10.6	1.48+1.96+3.78+3.78	11.0	2630	11.1
1.8+2.5+5.0+6.0	1.1+1.5+2.9+3.5	9.0	2510	10.6	1.40+1.96+3.59+4.05	11.0	2630	11.1
1.8+3.5+3.5+3.5	1.35+2.55+2.55+2.55	9.0	2530	10.6	1.68+2.84+2.84+2.84	10.2	2700	11.4
1.8+3.5+3.5+5.0	1.15+2.3+2.3+3.25	9.0	2530	10.6	1.53+2.71+2.71+4.05	11.0	2800	11.8
1.8+3.5+3.5+6.0	1.1+2.1+2.1+3.7	9.0	2530	10.6	1.51+2.54+2.54+4.41	11.0	2630	11.1
1.8+3.5+5.0+5.0	1.05+2.05+2.95+2.95	9.0	2510	10.6	1.39+2.37+3.62+3.62	11.0	2630	11.1
2.5+2.5+2.5+2.5	2.25+2.25+2.25+2.25	9.0	2530	10.6	2.55+2.55+2.55+2.55	10.2	2700	11.4
2.5+2.5+2.5+3.5	2.05+2.05+2.05+2.85	9.0	2530	10.6	2.39+2.39+2.39+3.03	10.2	2700	11.4
2.5+2.5+2.5+5.0	1.8+1.8+1.8+3.6	9.0	2530	10.6	2.12+2.12+2.12+4.04	10.4	2700	11.4
2.5+2.5+2.5+6.0	1.67+1.67+1.67+4.0	9.0	2530	10.6	2.02+2.02+2.02+4.34	10.4	2700	11.4
2.5+2.5+2.5+7.0	1.55+1.55+1.55+4.35	9.0	2530	10.6	2.0+2.0+2.0+5.0	11.0	2630	11.1
2.5+2.5+3.5+3.5	1.88+1.88+2.62+2.62	9.0	2530	10.6	2.01+2.01+2.52+2.54	10.2	2700	11.4
2.5+2.5+3.5+5.0	1.67+1.67+2.33+3.33	9.0	2530	10.6	2.01+2.01+2.54+3.84	10.4	2700	11.4
2.5+2.5+3.5+6.0	1.55+1.55+2.2+3.7	9.0	2530	10.6	1.89+1.89+3.61+3.61	11.0	2630	11.1
2.5+2.5+5.0+5.0	1.5+1.5+3.0+3.0	9.0	2510	10.6	1.89+1.89+3.61+3.61	11.0	2630	11.1
2.5+3.5+3.5+3.5	1.74+2.42+2.42+2.42	9.0	2530	10.6	2.18+2.74+2.74+2.74	10.4	2700	11.4
2.5+3.5+3.5+5.0	1.56+2.17+2.17+3.1	9.0	2530	10.6	2.02+2.56+2.56+3.86	11.0	2630	11.1
2.5+3.5+3.5+6.0	1.46+2.03+2.03+3.48	9.0	2530	10.6	1.94+2.45+2.45+4.16	11.0	2630	11.1
3.5+3.5+3.5+3.5	2.25+2.25+2.25+2.25	9.0	2530	10.6	2.75+2.75+2.75+2.75	11.0	2630	11.1
3.5+3.5+3.5+5.0	2.03+2.03+2.03+3.0	9.0	2530	10.6	2.44+2.44+2.44+3.68	11.0	2630	11.1

### Five Units

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps /240V
1.8+1.8+1.8+1.8+1.8	1.8+1.8+1.8+1.8+1.8	9.0	2360	9.9	2.2+2.2+2.2+2.2+2.2	11.0	2460	10.4
1.8+1.8+1.8+1.8+2.5	1.67+1.67+1.67+2.32	9.0	2360	9.9	2.05+2.05+2.05+2.05+2.8	11.0	2460	10.4
1.8+1.8+1.8+1.8+3.5	1.51+1.51+1.51+1.51+2.96	9.0	2360	9.9	1.92+1.92+1.92+1.92+3.32	11.0	2460	10.4
1.8+1.8+1.8+1.8+5.0	1.33+1.33+1.33+1.33+3.68	9.0	2360	9.9	1.67+1.67+1.67+1.67+4.32	11.0	2460	10.4
1.8+1.8+1.8+1.8+6.0	1.23+1.23+1.23+1.23+4.08	9.0	2360	9.9	1.59+1.59+1.59+1.59+4.64	11.0	2460	10.4
1.8+1.8+1.8+1.8+7.0	1.14+1.14+1.14+1.14+4.43	9.0	2360	9.9	1.49+1.49+1.49+1.49+5.04	11.0	2460	10.4
1.8+1.8+1.8+2.5+2.5	1.56+1.56+1.56+2.16+2.16	9.0	2360	9.9	1.92+1.92+1.92+2.62+2.62	11.0	2460	10.4
1.8+1.8+1.8+2.5+3.5	1.42+1.42+1.42+1.97+2.77	9.0	2360	9.9	1.81+1.81+1.81+2.46+3.11	11.0	2460	10.4
1.8+1.8+1.8+2.5+5.0	1.26+1.26+1.26+1.74+3.74	9.0	2360	9.9	1.58+1.58+1.58+2.15+4.11	11.0	2460	10.4
1.8+1.8+1.8+2.5+6.0	1.17+1.17+1.17+1.62+3.87	9.0	2360	9.9	1.51+1.51+1.51+2.07+4.4	11.0	2460	10.4
1.8+1.8+1.8+2.5+7.0	1.09+1.09+1.09+1.51+4.22	9.0	2360	9.9	1.42+1.42+1.42+1.93+4.81	11.0	2460	10.4
1.8+1.8+1.8+3.5+3.5	1.3+1.3+1.3+2.55+2.55	9.0	2360	9.9	1.7+1.7+1.7+2.95+2.95	11.0	2460	10.4
1.8+1.8+1.8+3.5+5.0	1.17+1.17+1.17+2.27+3.22	9.0	2360	9.9	1.5+1.5+1.5+2.61+3.89	11.0	2460	10.4
1.8+1.8+1.8+3.5+6.0	1.09+1.09+1.09+2.11+3.62	9.0	2360	9.9	1.44+1.44+1.44+2.48+4.2	11.0	2460	10.4
1.8+1.8+1.8+5.0+5.0	1.06+1.06+1.06+2.91+2.91	9.0	2360	9.9	1.34+1.34+1.34+3.49+3.49	11.0	2460	10.4
1.8+1.8+2.5+2.5+2.5	1.47+1.47+2.02+2.02+2.02	9.0	2360	9.9	1.81+1.81+2.46+2.46+2.46	11.0	2460	10.4
1.8+1.8+2.5+2.5+3.5	1.34+1.34+1.86+1.86+2.6	9.0	2360	9.9	1.71+1.71+2.32+2.32+2.94	11.0	2460	10.4
1.8+1.8+2.5+2.5+5.0	1.19+1.19+1.65+1.65+3.32	9.0	2360	9.9	1.5+1.5+2.04+2.04+3.92	11.0	2460	10.4
1.8+1.8+2.5+2.5+6.0	1.11+1.11+1.54+1.54+3.7	9.0	2360	9.9	1.44+1.44+1.96+1.96+4.2	11.0	2460	10.4
1.8+1.8+2.5+3.5+3.5	1.24+1.24+1.72+2.4+2.4	9.0	2360	9.9	1.62+1.62+2.2+2.78+2.78	11.0	2460	10.4
1.8+1.8+2.5+3.5+5.0	1.11+1.11+1.54+2.16+3.08	9.0	2360	9.9	1.43+1.43+1.95+2.46+3.73	11.0	2460	10.4
1.8+1.8+3.5+3.5+3.5	1.17+1.17+2.22+2.22+2.22	9.0	2360	9.9	1.54+1.54+2.64+2.64+2.64	11.0	2460	10.4
1.8+2.5+2.5+2.5+2.5	1.36+1.91+1.91+1.91+1.91	9.0	2360	9.9	1.8+2.3+2.3+2.3+2.3	11.0	2460	10.4
1.8+2.5+2.5+2.5+3.5	1.26+1.76+1.76+1.76+2.46	9.0	2360	9.9	1.6+2.2+2.2+2.2+2.8	11.0	2460	10.4
1.8+2.5+2.5+2.5+5.0	1.14+1.57+1.57+1.57+3.15	9.0	2360	9.9	1.45+1.95+1.95+1.95+3.7	11.0	2460	10.4
1.8+2.5+2.5+2.5+6.0	1.06+1.47+1.47+1.47+3.53	9.0	2360	9.9	1.4+1.85+1.85+1.85+4.05	11.0	2460	10.4
1.8+2.5+2.5+3.5+3.5	1.18+1.63+1.63+2.28+2.28	9.0	2360	9.9	1.54+2.09+2.09+2.64+2.64	11.0	2460	10.4
1.8+2.5+2.5+3.5+5.0	1.06+1.47+1.47+2.06+2.94	9.0	2360	9.9	1.37+1.86+1.86+2.35+3.56	11.0	2460	10.4
1.8+2.5+3.5+3.5+3.5	1.09+1.52+2.13+2.13+2.13	9.0	2360	9.9	1.45+1.96+2.53+2.53+2.53	11.0	2460	10.4
2.5+2.5+2.5+2.5+2.5	1.8+1.8+1.8+1.8+1.8	9.0	2360	9.9	2.2+2.2+2.2+2.2+2.2	11.0	2460	10.4
2.5+2.5+2.5+2.5+3.5	1.67+1.67+1.67+1.67+2.32	9.0	2360	9.9	2.09+2.09+2.09+2.09+2.64	11.0	2460	10.4
2.5+2.5+2.5+2.5+5.0	1.5+1.5+1.5+1.5+3	9.0	2360	9.9	1.86+1.86+1.86+1.86+3.56	11.0	2460	10.4
2.5+2.5+2.5+3.5+3.5	1.56+1.56+1.56+2.16+2.16	9.0	2360	9.9	2.0+2.0+2.0+2.5+2.5	11.0	2460	10.4
2.5+2.5+3.5+3.5+3.5	1.47+1.47+2.02+2.02+2.02	9.0	2360	9.9	1.9+1.9+2.4+2.4+2.4	11.0	2460	10.4

# RAM-110QHA2

## Capacities and Selection Data



Inverter  
Multizone

### One unit

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
1.8	1.8	1.8	495	2.10	2.5	2.5	690	2.9
2.5	2.5	2.5	700	2.90	3.9	3.9	1060	4.5
3.5	3.5	3.5	1030	4.30	4.8	4.8	1320	5.6
5.0	5.0	5.0	1510	6.40	6.5	6.5	1800	7.6

### Two Units

1.8 + 1.8	1.8 + 1.8	3.6	1015	4.30	2.5 + 2.5	5.0	1290	5.4
1.8 + 2.5	1.8 + 2.5	4.3	1167	4.90	2.5 + 3.9	6.4	1700	7.2
1.8 + 3.5	1.8 + 3.5	5.3	1500	6.30	2.31 + 4.49	6.8	1850	7.8
1.8 + 5.0	1.4 + 3.9	5.3	1530	6.40	1.8 + 5.0	6.8	1820	7.7
2.5 + 2.5	2.5 + 2.5	5.0	1440	6.1	3.4 + 3.4	6.8	1820	7.7
2.5 + 3.5	2.21 + 3.09	5.3	1530	6.4	2.83 + 3.97	6.8	1820	7.7
3.5 + 3.5	2.65 + 2.65	5.3	1530	6.4	3.4 + 3.4	6.8	1790	7.5
2.5 + 5.0	1.77 + 3.53	5.3	1530	6.4	2.27 + 4.53	6.8	1790	7.5

### Three units

1.8 + 1.8 + 1.8	1.76 + 1.77 + 1.77	5.3	1555	6.5	2.26 + 2.27 + 2.27	6.8	1687	7.1
1.8 + 1.8 + 2.5	1.56 + 1.56 + 2.18	5.3	1555	6.5	1.91 + 1.91 + 2.98	6.8	1687	7.1
1.8 + 1.8 + 3.5	1.34 + 1.34 + 2.62	5.3	1555	6.5	1.73 + 1.73 + 3.34	6.8	1687	7.1
1.8 + 1.8 + 5.0	1.11 + 1.11 + 3.08	5.3	1555	6.5	1.48 + 1.48 + 3.84	6.8	1687	7.1
1.8 + 2.5 + 2.5	1.4 + 1.95 + 1.95	5.3	1555	6.5	1.66 + 2.57 + 2.57	6.8	1687	7.1
1.8 + 2.5 + 3.5	1.22 + 1.7 + 2.38	5.3	1555	6.5	1.52 + 2.37 + 2.91	6.8	1687	7.1
1.8 + 3.5 + 3.5	1.08 + 2.11 + 2.11	5.3	1555	6.5	1.4 + 2.7 + 2.7	6.8	1687	7.1
2.5 + 2.5 + 2.5	1.76 + 1.77 + 1.77	5.3	1555	6.5	2.26 + 2.27 + 2.27	6.8	1687	7.1
2.5 + 2.5 + 3.5	1.56 + 1.56 + 2.18	5.3	1555	6.5	2.1 + 2.1 + 2.6	6.8	1687	7.1

- Min 2 indoor units connected to each refrigeration circuit
- 1 Unit values are for 1 unit operation with 4 indoor units connected
- 2 Unit values are for 1 unit operation with 4 indoor units connected
- 3 Unit values are for 1 unit operation with 4 indoor units connected
- 4 Unit values are for 1 unit operation with 4 indoor units connected
- 5 Unit values are for 1 unit operation with 5 indoor units connected
- Total nominal cooling capacity should not exceed 18.0kW

### Four units

Possible combinations to operate	Cooling				Heating			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
(1.8+1.8)+(1.8+1.8)	(1.8+1.8)+(1.8+1.8)	7.2	2030	8.5	(2.5+2.5)+(2.5+2.5)	10.0	2580	10.9
(1.8+1.8)+(1.8+2.5)	(1.8+1.8)+(1.8+2.5)	7.9	2182	9.2	(2.5+2.5)+(2.5+3.9)	11.4	2990	12.6
(1.8+2.5)+(1.8+2.5)	(1.8+2.5)+(1.8+2.5)	8.6	2334	9.8	(2.5+3.9)+(2.5+3.9)	12.8	3400	14.3
(1.8+1.8)+(1.8+3.5)	(1.8+1.8)+(1.8+3.5)	8.9	2515	10.6	(2.5+2.5)+(2.31+4.49)	12.3	3140	13.2
(1.8+2.5)+(1.8+3.5)	(1.8+2.5)+(1.8+3.5)	9.6	2667	11.2	(2.5+3.9)+(2.31+4.49)	13.6	3550	14.9
(1.8+1.8)+(1.8+5.0)	(1.8+1.8)+(1.4+3.9)	8.9	2545	10.7	(2.5+2.5)+(1.8+5.0)	13.6	3110	13.1
(1.8+2.5)+(1.8+5.0)	(1.8+2.5)+(1.4+3.9)	9.6	2697	11.4	(2.5+3.9)+(1.8+5.0)	13.6	3520	14.8
(1.8+3.5)+(1.8+3.5)	(1.8+3.5)+(1.8+3.5)	10.6	3000	12.6	(2.31+4.49)+(2.31+4.49)	13.6	3700	15.6
(1.8+3.5)+(1.8+5.0)	(1.8+3.5)+(1.4+3.9)	10.6	3030	12.8	(2.31+4.49)+(1.8+5.0)	13.6	3670	15.4
(1.8+5.0)+(1.8+5.0)	(1.4+3.9)+(1.4+3.9)	10.6	3060	12.9	(1.8+5.0)+(1.8+5.0)	13.6	3640	15.3
(1.8+2.5)+(2.5+2.5)	(1.8+2.5)+(2.5+2.5)	9.3	2607	11.0	(2.5+3.9)+(3.4+3.4)	13.6	3520	14.8
(1.8+5.0)+(2.5+2.5)	(1.4+3.9)+(2.5+2.5)	10.3	2940	12.4	(1.8+5.0)+(3.4+3.4)	13.6	3640	15.3
(1.8+3.5)+(2.5+2.5)	(1.8+3.5)+(2.5+2.5)	10.3	2940	12.4	(2.31+4.49)+(3.4+3.4)	13.6	3670	15.4
(1.8+3.5)+(2.5+3.5)	(1.8+3.5)+(2.21+3.09)	10.6	3030	12.8	(2.31+4.49)+(2.83+3.97)	13.6	3670	15.4
(1.8+5.0)+(2.5+3.5)	(1.4+3.9)+(2.21+3.09)	10.6	3060	12.9	(1.8+5.0)+(2.83+3.97)	13.6	3640	15.3
(1.8+5.0)+(2.5+5.0)	(1.4+3.9)+(1.77+3.53)	10.6	3060	12.9	(1.8+5.0)+(2.27+4.53)	13.6	3610	15.2
(1.8+3.5)+(3.5+3.5)	(1.8+3.5)+(2.65+2.65)	10.6	3030	12.8	(2.31+4.49)+(3.4+3.4)	13.6	3640	15.3
(1.8+5.0)+(3.5+5.0)	(1.4+3.9)+(2.18+3.52)	10.6	3060	12.9	(1.8+5.0)+(2.89+3.91)	13.6	3610	15.2
(2.5+2.5)+(2.5+2.5)	(2.5+2.5)+(2.5+2.5)	10.0	2880	12.1	(3.4+3.4)+(3.4+3.4)	13.6	3640	15.3
(2.5+2.5)+(2.5+3.5)	(2.5+2.5)+(2.21+3.09)	10.6	2970	12.5	(3.4+3.4)+(2.83+3.97)	13.6	3640	15.3
(2.5+2.5)+(2.5+5.0)	(2.5+2.5)+(1.77+3.53)	10.6	2970	12.5	(3.4+3.4)+(2.27+4.53)	13.6	3610	15.2
(2.5+3.5)+(2.5+3.5)	(2.21+3.09)+(2.21+3.09)	10.6	3060	12.9	(2.83+3.97)+(2.83+3.97)	13.6	3640	15.3
(2.5+5.0)+(2.5+3.5)	(1.77+3.53)+(2.21+3.09)	10.6	3060	12.9	(2.27+4.53)+(2.83+3.97)	13.6	3610	15.2
(2.5+5.0)+(2.5+5.0)	(1.77+3.53)+(1.77+3.53)	10.6	3060	12.9	(2.27+4.53)+(2.27+4.53)	13.6	3580	15.1
(2.5+3.5)+(3.5+3.5)	(2.21+3.09)+(2.65+2.65)	10.6	3060	12.9	(2.83+3.97)+(3.4+3.4)	13.6	3610	15.2
(2.5+5.0)+(3.5+3.5)	(1.77+3.53)+(2.65+2.65)	10.6	3060	12.9	(2.27+4.53)+(3.4+3.4)	13.6	3580	15.1
(3.5+3.5)+(3.5+3.5)	(2.65+2.65)+(2.65+2.65)	10.6	3060	12.9	(3.4+3.4)+(3.4+3.4)	13.6	3580	15.1

# RAM-110QHA2

## Capacities and Selection Data



Inverter  
Multizone

### Five Units

Possible combinations to operate	Cooling			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
(1.8+1.8) + (1.8+1.8+1.8)	(1.8+1.8) + (1.76+1.76+1.78)	9.0	2570	10.8
(1.8+1.8) + (1.8+1.8+2.5)	(1.8+1.8) + (1.56+1.56+2.17)	9.7	2570	10.8
(1.8+3.5) + (1.8+1.8+1.8)	(1.8+3.5) + (1.76+1.76+1.77)	10.6	3055	12.9
(1.8+5.0) + (1.8+1.8+1.8)	(1.4+3.9) + (1.76+1.76+1.77)	10.6	3085	13.0
(1.8+2.5) + (1.8+1.8+2.5)	(1.8+2.5) + (1.56+1.56+2.17)	10.4	2722	11.5
(1.8+3.5) + (1.8+1.8+2.5)	(1.8+3.5) + (1.56+1.56+2.17)	10.6	3055	12.9
(1.8+5.0) + (1.8+1.8+2.5)	(1.4+3.9) + (1.56+1.56+2.17)	10.6	3085	13.0
(1.8+3.5) + (1.8+1.8+3.5)	(1.8+3.5) + (1.34+1.34+2.61)	10.6	3055	12.9
(1.8+5.0) + (1.8+1.8+3.5)	(1.4+3.9) + (1.34+1.34+2.61)	10.6	3085	13.0
(1.8+5.0) + (1.8+1.8+5.0)	(1.4+3.9) + (1.1+1.1+3.08)	10.6	3085	13.0
(2.5+2.5) + (1.8+1.8+2.5)	(2.5+2.5) + (1.56+1.56+2.17)	10.6	2995	12.6
(2.5+3.5) + (1.8+1.8+2.5)	(2.21+3.09) + (1.56+1.56+2.17)	10.6	3085	13.0
(1.8+5.0) + (1.8+2.5+2.5)	(1.4+3.90) + (1.40+1.95+1.95)	10.6	3085	13.0
(3.5+3.5) + (1.8+1.8+2.5)	(2.65+2.65) + (1.56+1.56+2.17)	10.6	3085	13.0
(1.8+5.0) + (1.8+2.5+3.5)	(1.4+3.90) + (1.22+1.7+2.38)	10.6	3085	13.0
(3.5+3.5) + (1.8+1.8+3.5)	(2.65+2.65) + (1.34+1.34+2.61)	10.6	3085	13.0
(2.5+2.5) + (1.8+2.5+2.5)	(2.5+2.5) + (1.4+1.95+1.95)	10.6	2995	12.6
(2.5+3.5) + (1.8+2.5+2.5)	(2.21+3.09) + (1.4+1.95+1.95)	10.6	3085	13.0
(1.8+5.0) + (2.5+2.5+2.5)	(1.4+3.9) + (1.76+1.77+1.77)	10.6	3085	13.0
(3.5+3.5) + (1.8+2.5+2.5)	(2.65+2.65) + (1.4+1.95+1.95)	10.6	3085	13.0
(2.5+5.0) + (1.8+2.5+3.5)	(1.77+3.53) + (1.22+1.70+2.38)	10.6	3085	13.0
(3.5+3.5) + (1.8+2.5+3.5)	(2.65+2.65) + (1.22+1.7+2.38)	10.6	3085	13.0
(3.5+3.5) + (1.8+3.5+3.5)	(2.65+2.65) + (1.08+2.11+2.11)	10.6	3085	13.0
(2.5+2.5) + (2.5+2.5+2.5)	(2.5+2.5) + (1.76+1.77+1.77)	10.6	2995	12.6
(2.5+3.5) + (2.5+2.5+2.5)	(2.21+3.09) + (1.76+1.77+1.77)	10.6	3085	13.0
(2.5+5.0) + (2.5+2.5+2.5)	(1.77+3.53) + (1.76+1.77+1.77)	10.6	3085	13.0
(3.5+3.5) + (2.5+2.5+2.5)	(2.65+2.65) + (1.76+1.77+1.77)	10.6	3085	13.0
(2.5+5.0) + (2.5+2.5+3.5)	(1.77+3.53) + (1.56+1.56+2.18)	10.6	3085	13.0
(3.5+3.5) + (2.5+2.5+3.5)	(2.65+2.65) + (1.56+1.56+2.18)	10.6	3085	13.0

See page 34 for additional model details and specifications.

### Heating

Possible combinations to operate	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
(2.5+2.5) + (2.27+2.27+2.27)		12.5	2977	12.5
(2.5+2.5) + (1.91+1.91+2.96)		12.5	2927	12.5
(2.31+4.49) + (2.27+2.27+2.27)		13.6	3537	14.9
(1.8+5.0) + (2.27+2.27+2.27)		13.6	3507	14.8
(2.5+3.5) + (1.91+1.91+2.98)		13.6	3387	14.3
(2.31+4.49) + (1.91+1.91+2.98)		13.6	3537	14.9
(1.8+5.0) + (1.91+1.91+2.98)		13.6	3507	14.8
(2.31+4.49) + (1.73+1.73+3.33)		13.6	3537	14.9
(1.8+5.0) + (1.73+1.73+3.33)		13.6	3507	14.8
(1.8+5.0) + (1.48+1.48+3.84)		13.6	3507	14.8
(3.4+3.4) + (1.91+1.91+2.98)		13.6	3507	14.8
(2.83+3.97) + (1.91+1.91+2.98)		13.6	3507	14.8
(1.8+5.0) + (1.65+2.57+2.57)		13.6	3507	14.8
(3.4+3.4) + (1.91+1.91+2.98)		13.6	3477	14.6
(1.8+5.0) + (1.52+2.37+2.91)		13.6	3507	14.8
(3.4+3.4) + (1.73+1.73+3.33)		13.6	3477	14.6
(3.4+3.4) + (1.65+2.57+2.57)		13.6	3507	14.8
(2.83+3.97) + (1.65+2.57+2.57)		13.6	3507	14.8
(1.8+5.0) + (2.27+2.27+2.27)		13.6	3507	14.8
(3.4+3.4) + (1.65+2.57+2.57)		13.6	3477	14.6
(2.27+4.53) + (1.52+2.37+2.91)		13.6	3477	14.6
(3.4+3.4) + (1.52+2.37+2.91)		13.6	3477	14.6
(3.4+3.4) + (1.40+2.7+2.7)		13.6	3477	14.6
(3.4+3.4) + (2.27+2.27+2.27)		13.6	3507	14.8
(2.83+3.97) + (2.27+2.27+2.27)		13.6	3507	14.8
(2.27+4.53) + (2.27+2.27+2.27)		13.6	3477	14.6
(3.4+3.4) + (2.27+2.27+2.27)		13.6	3477	14.6
(2.27+4.53) + (2.1+2.1+2.59)		13.6	3477	14.6
(3.4+3.4) + (2.1+2.1+2.59)		13.6	3477	14.6

# RAM-110QHA2

## Capacities and Selection Data

### Six Units

Possible combinations to operate	Cooling			
	Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
(1.8+1.8+1.8)+(1.8+1.8+1.8)	(1.76+1.76+1.77)+(1.76+1.76+1.78)	10.6	3110	13.1
(1.8+1.8+1.8)+(1.8+1.8+2.5)	(1.76+1.76+1.77)+(1.56+1.56+2.17)	10.6	3110	13.1
(1.8+1.8+1.8)+(1.8+1.8+3.5)	(1.76+1.76+1.77)+(1.34+1.34+2.61)	10.6	3110	13.1
(1.8+1.8+1.8)+(1.8+1.8+5.0)	(1.76+1.76+1.77)+(1.11+1.11+3.08)	10.6	3110	13.1
(1.8+1.8+2.5)+(1.8+1.8+2.5)	(1.56+1.56+2.17)+(1.56+1.56+2.17)	10.6	3110	13.1
(1.8+1.8+2.5)+(1.8+1.8+3.5)	(1.56+1.56+2.17)+(1.34+1.34+2.61)	10.6	3110	13.1
(1.8+1.8+2.5)+(1.8+1.8+5.0)	(1.56+1.56+2.17)+(1.11+1.11+3.08)	10.6	3110	13.1
(1.8+1.8+3.5)+(1.8+1.8+3.5)	(1.34+1.34+2.61)+(1.34+1.34+2.61)	10.6	3110	13.1
(1.8+1.8+3.5)+(1.8+1.8+5.0)	(1.34+1.34+2.61)+(1.11+1.11+3.08)	10.6	3110	13.1
(1.8+1.8+5.0)+(1.8+1.8+5.0)	(1.11+1.11+3.08)+(1.11+1.11+3.08)	10.6	3110	13.1
(1.8+1.8+2.5)+(1.8+2.5+2.5)	(1.56+1.56+2.17)+(1.4+1.95+1.95)	10.6	3110	13.1
(1.8+1.8+2.5)+(1.8+2.5+3.5)	(1.56+1.56+2.17)+(1.22+1.70+2.38)	10.6	3110	13.1
(1.8+1.8+5.0)+(1.8+2.5+2.5)	(1.11+1.11+3.08)+(1.40+1.95+1.95)	10.6	3110	13.1
(1.8+1.8+3.5)+(1.8+2.5+3.5)	(1.34+1.34+2.61)+(1.22+1.70+2.38)	10.6	3110	13.1
(1.8+1.8+5.0)+(1.8+2.5+3.5)	(1.11+1.11+3.08)+(1.22+1.70+12.38)	10.6	3110	13.1
(1.8+1.8+3.5)+(1.8+3.5+3.5)	(1.34+1.34+2.61)+(1.08+2.11+2.11)	10.6	3110	13.1
(1.8+1.8+5.0)+(1.8+3.5+3.5)	(1.11+1.11+3.08)+(1.08+2.11+2.11)	10.6	3110	13.1
(1.8+2.5+2.5)+(1.8+2.5+2.5)	(1.40+1.95+1.95)+(1.40+1.95+1.95)	10.6	3110	13.1
(1.8+2.5+2.5)+(1.8+2.5+3.5)	(1.40+1.95+1.95)+(1.22+1.70+2.38)	10.6	3110	13.1
(1.8+1.8+5.0)+(2.5+2.5+2.5)	(1.11+1.11+3.08)+(1.77+1.77+1.77)	10.6	3110	13.1
(1.8+2.5+3.5)+(1.8+2.5+3.5)	(1.11+1.70+2.38)+(1.22+1.70+2.38)	10.6	3110	13.1
(1.8+1.8+5.0)+(2.5+2.5+3.5)	(1.11+1.11+3.08)+(1.56+1.56+2.18)	10.6	3110	13.1
(1.8+2.5+3.5)+(1.8+3.5+3.5)	(1.22+1.70+2.38)+(1.08+2.11+2.11)	10.6	3110	13.1
(1.8+3.5+3.5)+(1.8+3.5+3.5)	(1.08+2.11+2.11)+(1.08+2.11+2.11)	10.6	3110	13.1
(1.8+2.5+2.5)+(2.5+2.5+2.5)	(1.40+1.95+1.95)+(1.77+1.77+1.77)	10.6	3110	13.1
(1.8+2.5+3.5)+(2.5+2.5+2.5)	(1.22+1.70+2.38)+(1.77+1.77+1.77)	10.6	3110	13.1
(1.8+2.5+3.5)+(2.5+2.5+3.5)	(1.22+1.70+2.38)+(1.56+1.56+2.18)	10.6	3110	13.1
(1.8+3.5+3.5)+(2.5+2.5+3.5)	(1.08+2.11+2.11)+(1.56+1.56+2.18)	10.6	3110	13.1
(2.5+2.5+2.5)+(2.5+2.5+2.5)	(1.77+1.77+1.77)+(1.77+1.77+1.77)	10.6	3110	13.1
(2.5+2.5+2.5)+(2.5+2.5+3.5)	(1.77+1.77+1.77)+(1.56+1.56+2.18)	10.6	3110	13.1
(2.5+2.5+3.5)+(2.5+2.5+3.5)	(1.56+1.56+2.18)+(1.56+1.56+2.18)	10.6	3110	13.1

See page 34 for additional model details and specifications.

### Heating

Capacity Rating kW	Total kW	Total Power Input Watt	Amps / 240V
(2.27+2.27+2.27)+(2.27+2.27+2.27)	13.6	3374	14.2
(2.27+2.27+2.27)+(1.91+1.91+2.98)	13.6	3374	14.2
(2.27+2.27+2.27)+(1.73+1.73+3.33)	13.6	3374	14.2
(2.27+2.27+2.27)+(1.48+1.48+3.84)	13.6	3374	14.2
(1.91+1.91+2.98)+(1.91+1.91+2.98)	13.6	3374	14.2
(1.91+1.91+2.98)+(1.73+1.73+3.33)	13.6	3374	14.2
(1.91+1.91+2.98)+(1.48+1.48+3.84)	13.6	3374	14.2
(1.73+1.73+3.33)+(1.73+1.73+3.33)	13.6	3374	14.2
(1.73+1.73+3.33)+(1.48+1.48+3.84)	13.6	3374	14.2
(1.48+1.48+3.84)+(1.48+1.48+3.84)	13.6	3374	14.2
(1.91+1.91+2.98)+(1.65+2.57+2.57)	13.6	3374	14.2
(1.91+1.91+2.98)+(1.52+2.37+2.91)	13.6	3374	14.2
(1.48+1.48+3.84)+(1.65+2.57+2.57)	13.6	3374	14.2
(1.73+1.73+3.33)+(1.52+2.37+2.91)	13.6	3374	14.2
(1.48+1.48+3.84)+(1.52+2.37+2.91)	13.6	3374	14.2
(1.73+1.73+3.33)+(1.40+2.70+2.70)	13.6	3374	14.2
(1.48+1.48+3.84)+(1.4+2.7+2.7)	13.6	3374	14.2
(1.65+2.57+2.57)+(1.65+2.57+2.57)	13.6	3374	14.2
(1.65+2.57+2.57)+(1.52+2.37+2.91)	13.6	3374	14.2
(1.48+1.48+3.84)+(2.27+2.27+2.27)	13.6	3374	14.2
(1.52+2.37+2.91)+(1.52+2.37+2.91)	13.6	3374	14.2
(1.48+1.48+3.84)+(2.1+2.1+2.59)	13.6	3374	14.2
(1.52+2.37+2.91)+(1.4+2.7+2.7)	13.6	3374	14.2
(1.4+2.7+2.7)+(1.4+2.7+2.7)	13.6	3374	14.2
(1.65+2.57+2.57)+(2.27+2.27+2.27)	13.6	3374	14.2
(1.52+2.37+2.91)+(2.27+2.27+2.27)	13.6	3374	14.2
(1.52+2.37+2.91)+(2.1+2.1+2.59)	13.6	3374	14.2
(1.4+2.7+2.7)+(2.1+2.1+2.59)	13.6	3374	14.2
(2.27+2.27+2.27)+(2.27+2.27+2.27)	13.6	3374	14.2
(2.27+2.27+2.27)+(2.1+2.1+2.59)	13.6	3374	14.2
(2.10+2.10+2.59)+(2.1+2.1+2.59)	13.6	3374	14.2



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