

HITACHI

Healthy air Happy family

Hitachi Single & Multi Split Air Conditioners

FrostWash® Technology 



Cooling & Heating



FrostWash® A Revolutionary Self-cleaning Technology

Introducing FrostWash®, Air like never before

A state-of-the-art self-cleaning technology for cleaner and fresher air. This unique technology eliminates mold, dust and bacteria that has built up on the heat exchanger's surface by trapping and freezing the impurities in ice, which then melts and flushes out safely.

Freeze

1

Frost is created as your unit uses dew from collected air moisture to cover the heat exchanger while it cools down to a maximum of -15°C.



Air flows through the heat exchanger during standard operation. A clean heat exchanger keeps the air in your home fresher and cleaner.

Melt & Dry

2

Accumulated frost then melts and washes away dust attached to the heat exchanger.



Pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.

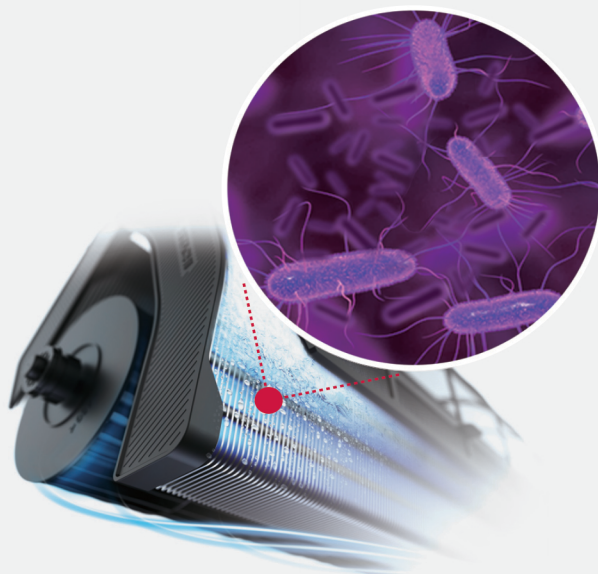
Antibacterial and Antiviral

Frost, melt, clean

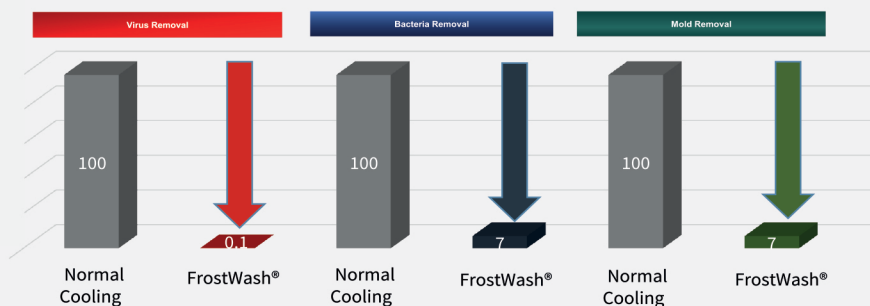
When operating an indoor unit, moist air typically gets trapped inside the system. If not regularly cleaned, bacteria, mold, viruses and other unwanted particles can multiply. This leads to unpleasant odours. Hitachi has developed the technology that collects and removes polluted moisture by freezing it. Once frozen, it is automatically melted and washed away, flushing out dirt caught in the ice. This cleaning process is FrostWash®, which removes 99.9%* of viruses and 93%** of bacteria and mold.

Removal of up to 99.9% viruses

FrostWash® removes and prevents bacteria and mold from accumulating in the unit, as well as disease-causing viruses. Through testing and research, this cleaning process was proven to successfully remove 99.9%* viruses. The viruses are trapped in ice and then flushed out safely through the condensate drainage.



99.9% Virus Removal*
93% Bacteria Removal**
93% Mold Removal**



* Tested by Kitasato Research Centre for Environment Science, Japan. Test no. 2020_0386: Suppress Virus effect observation test by operating FrostWash®.

** Tested by Kitasato Research Centre for Environment Science, Japan. Test no. 2017_40194: Antibacterial and anti-mold effects when operating FrostWash® four times.

Note:

1. FrostWash® technology has won an "Excellence Award" by the Japan Electrical Manufacturers Association in 2018.
2. An alert will be sent to prompt the user to perform FrostWash® after every 250hrs of operation, keeping the units in optimum condition and reducing the frequency of chemical cleaning.
3. FrostWash® can only be activated after all indoor units have been turned off, and it is activated one at a time.
4. FrostWash® operation takes approximately 120 minutes, depending on room and environment condition.
5. Estimated electrical consumption per cycle of FrostWash® (one indoor unit) is 0.301kWh. Based on the assumption that the tariff rate is \$0.18/kWh, one cycle will cost \$0.05.

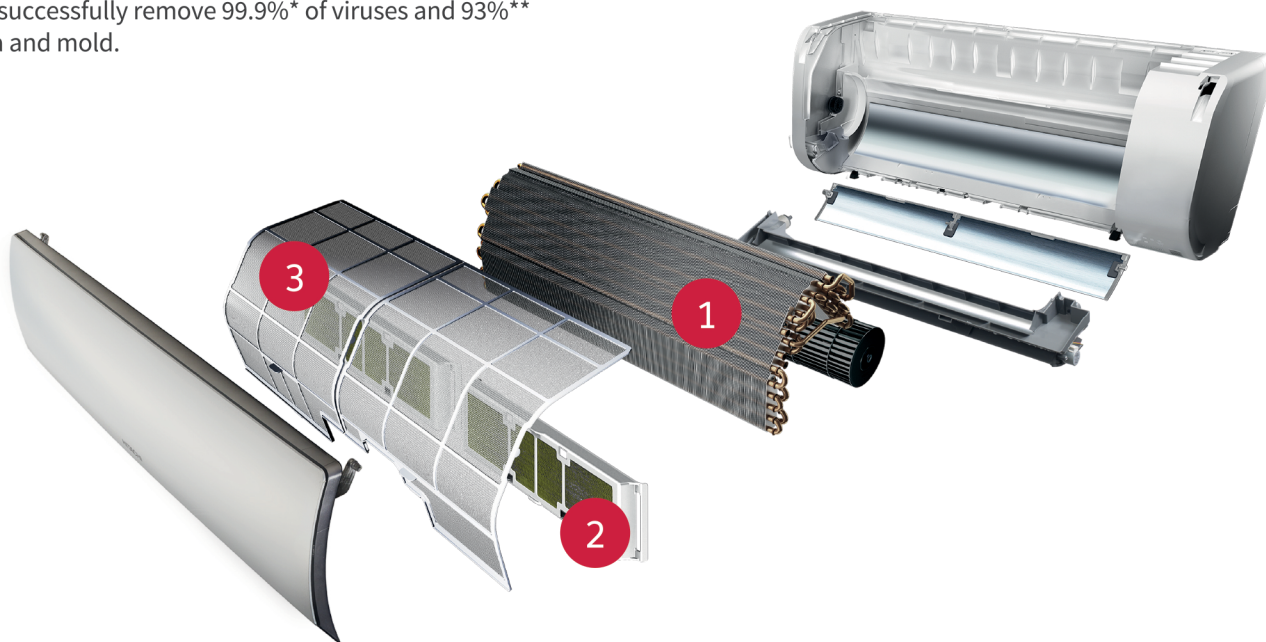
Triple Air Purification System



1 FrostWash®



FrostWash® is a self-cleaning technology that freezes water moisture around the heat exchanger, trapping dust and bacteria in a thick layer of frost. This frost is later melted and flushed away, enabling fresh, clean and comfortable air. It is proven to successfully remove 99.9%* of viruses and 93%** of bacteria and mold.



2 PM 2.5 Wasabi Air Purifying Filter



PM 2.5 refers to particulate matter (PM) that have a diameter of less than 2.5 micrometers, so small that they can easily enter the lungs and cause damage. These fine particles can even enter the bloodstream, especially when exposed to large concentration over long periods. Our PM 2.5 Wasabi Air Purifying Filter removes 99%*** of microscopic 2.5 μm particles and is proven to be antibacterial, antifungal, anti-allergen, and have deodorizing properties. When combined with the Nano Titanium Stainless Pre-filter, it provides the room with fresher and healthier air.

3 Nano Titanium Stainless Pre-filter

The anti-static properties of stainless steel attracts less dust compared to filters made out of plastic material. A single wipe without water is all that is required to remove dust from the filter. It is also more durable and easier to clean.

* Tested by Kitasato Research Centre for Environment Science, Japan. Test no. 2020_0386: Suppress Virus effect observation test by operating FrostWash®.

** Tested by Kitasato Research Centre for Environment Science, Japan. Test no. 2017_40194: Antibacterial and anti-mold effects when operating FrostWash® four times.

*** Wasabi Air Purifying Filter tested by Hitachi Environmental Test Laboratory.

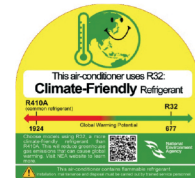
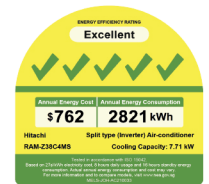
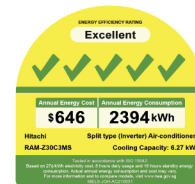
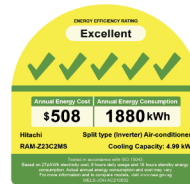
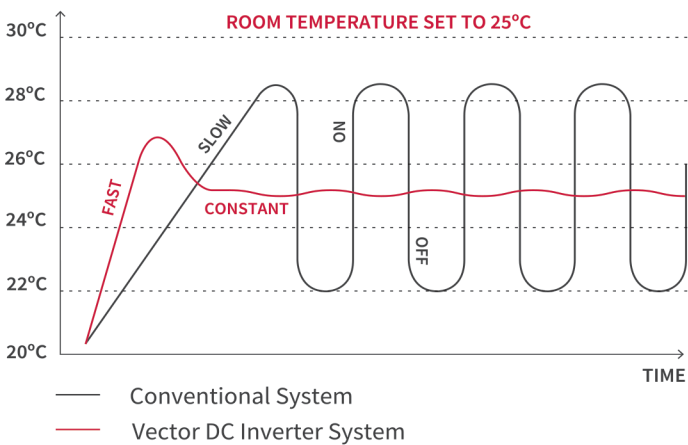
Eco-friendly Systems

High Energy Efficiency
Powerful Cooling
Low Consumption



More Than Just Energy Saving

The Vector DC Inverter System gives you reliable performance even in unstable power settings. It features a microchip that monitors compressor behaviour and current flow conditions, adjusting compressor rotation accordingly. With a smooth compressor operation, Vector DC Inverter is more energy efficient compared to non-inverter systems.



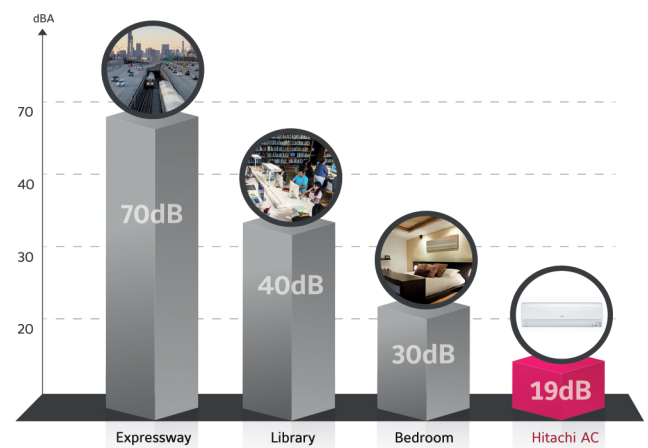
R32
REFRIGERANT

R32 Green Efficient Refrigerant

Since 2013, Hitachi has started using R32 refrigerants for their units, which is more environmentally friendly than other widely used refrigerants like R410a. Not only does R32 have a lower global warming potential (GWP) of more than half compared to R410a, it is also more energy efficient, being able to provide the same cooling performance with lower electrical consumption.

Quietest Operation At 19dB*

Hitachi's Wall Mounted indoor units has one of Singapore's quietest indoor unit sound level of 19dB*, quieter than a library. With such a low operation noise level, users can enjoy comfort cooling with a quiet environment.



*Applicable for RAK-ZJ10/13 & RAS-GJ10/13 at Silent Fan Speed.



Fireproof Electrical Closure

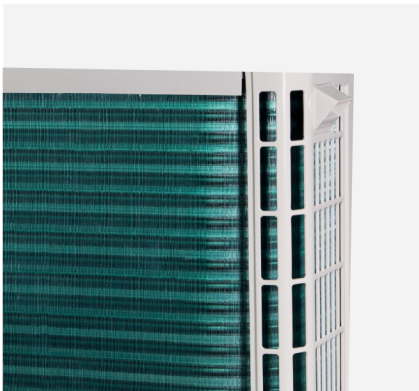
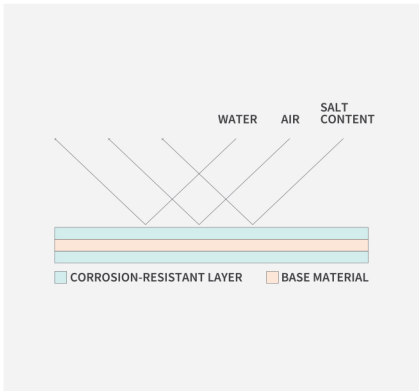
The fireproof electrical enclosure ensures safety and removes the possibility of a fire. A 100% metal housing seals tightly. Users need not worry about fire or safety hazards, instead enjoying cool comfort and peace of mind.



Anti-corrosion Heat Exchanger, Easy Installation / Replacement

A special anti-corrosion coating on the outdoor heat exchanger improves durability while the green tint blends with the outdoor environment.

Hitachi's Wall Mounted indoor units require no special equipment or installation work. With an innovative fan coil unit design, a minimum height of 50mm from the ceiling is sufficient to provide optimal performance. They can also be easily replaced with existing piping* to save time, money and provide convenience for users.



* Ensure no leakage in the existing pipings. Ensure proper flushing, purging and vacuuming of the existing pipings before using the new system.

Most Compact Indoor Unit

Hitachi's Wall Mounted Multi Split air conditioners have one of the smallest 7.3kW (max) fan coil unit in Singapore with dimensions of 900 x 300 x 230 (W x H x D) mm.

Same-day Premium After-sales Care

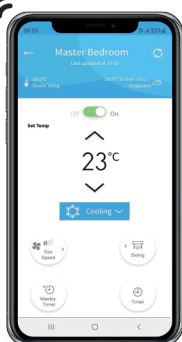
Hitachi's 5 Ticks Multi Split System comes with convenient **Same-day Premium After-sales Care**. This applies to any request made before 10.30am (Monday – Friday) excluding Public Holidays & Eve of Public Holidays. All other service requests received after 10.30am (Monday - Friday) will be attended to by the following day.



* Premium After-sales Care Hotline: +65 6319 2526

airCloud Home

Smarter Air from Anywhere[#]



Smarter air from anywhere

Making sure your home is at the perfect temperature for when you arrive has never been easier. Hitachi airCloud Home allows you to remotely monitor and control your system from a single app through your smartphone for convenient temperature management.



Unlock the power of FrostWash[®]

With airCloud home, you can activate the FrostWash[®] self-cleaning function while you're away, and helps to preserve your indoor air quality.



Command with your voice

Connect with your smart speaker.

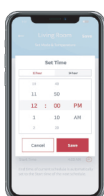
airCloud Home is fully-compatible with Amazon Alexa and Google Assistant, enabling you to change the temperature hands-free while you cook, clean, or exercise.

Voice control

Amazon Echo¹Google Home²

Plan to save energy

Schedule when your air conditioner is on and eliminate unnecessary power usage.



[#] With purchase of Optional airCloud Home Wi-Fi adaptor.

Note:

1. Optional airCloud Home Wi-Fi adaptor SPX-WFG02 dimensions (mm) W x H x D (80 x 40 x 16.5)
2. Wi-Fi signal of 2.4ghz is required to connect the device with airCloud Home.
3. A strong Wi-Fi Signal is required in order to connect with the devices.



Select your preferred radius between 500m – 10km.



Smart-Fence

Automatically stop and start your AC as you leave and return home.



As you arrive home

Your AC will automatically turn on, helping to create a comfortable and welcoming indoor climate.



As you leave home

Your AC will stop automatically.

Controls made easy

airCloud Home is a user-friendly interface on your smartphone.

Forgot to turn off the AC?

You can control your air conditioning even while away from your home.



HITACHI



Features

- Start/Stop operation
- Set operation mode Auto/Cool/Fan/Dry
- Show/set room temperature
- Set airflow direction Up/Down/Left*/Right*
- Set fan speed
- FrostWash[®] operation*
- Timer/weekly timer
- Group operation (on/off)
- Smart-Fence
- Energy Cost Estimator*
- Error notification

* Features not available in airCloud Home Mobile App for Single Split.

Hitachi 5 Ticks Multi Split Inverter System

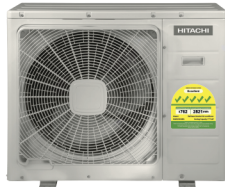
OUTDOOR UNIT



RAM-Z23C2MS
850 x 745 x 298
(W x H x D) mm



RAM-Z30C3MS
850 x 745 x 298
(W x H x D) mm



RAM-Z38C4MS
950 x 800 x 370
(W x H x D) mm

5 Ticks System (Outdoor Unit)	MODEL			RAM-Z23C2MS	RAM-Z30C3MS	RAM-Z38C4MS
	No. of Compatible Indoor Units			1 to 2	1 to 3	1 to 4
	Power Supply	V / Hz / Ø		220-240V / 50Hz / 1Ø		
	Cooling Capacity	Rated (Min - Max)	kW	4.88 (0.95-7.00)	6.15 (0.95-8.90)	7.50 (0.95-11.20)
			Btu/Hr	16,650 (3,240-23,880)	20,980 (3,240-30,370)	25,590 (3,240-38,220)
	Running Current	Rated	A	4.60	5.78	6.75
	Pipe Connections	Liquid Pipe Size	mm (inch)	2 x 6.35 (1/4")	3 x 6.35 (1/4")	4 x 6.35 (1/4")
		Gas Pipe Size	mm	2 x 9.52 (3/8")	3 x 9.52 (3/8")	3 x 9.52 (3/8") + 1 x 12.7 (1/2")
	Per Room Max Length	m		25	25	25
	Total Room Max Length	m		30	60	60
	Max. Height Between IDU	m		5		
	Max. Height Between IDU & ODU	m		10		
	Refrigerant / Compressor Type	R32 / DC Inverter				
	Outdoor Sound Level	dB (A)		53	53	53
	Net Dimensions	W x H x D	mm	850 x 745 x 298	850 x 745 x 298	950 x 800 x 370
Net Weight	Kg		52	53	74	

INDOOR UNIT



RAK-ZJ10CMS | RAK-ZJ13CMS
RAK-ZJ18CMS | RAK-ZJ24CMS
900 x 300 x 230 (W x H x D) mm

5 Ticks System (Indoor Unit)	MODEL			RAK-ZJ10CMS	RAK-ZJ13CMS	RAK-ZJ18CMS	RAK-ZJ24CMS
	Power Supply	V / Hz / Ø		220-240V / 50Hz / 1Ø			
	Cooling Capacity	Rated (Min - Max)	kW	2.60 (0.95-3.10)	3.60 (0.95-4.10)	5.10 (1.10-5.80)	6.50 (1.10-7.30)
			Btu/hr	8,870 (3,240-10,580)	12,280 (3,240-13,990)	17,400 (3,750-19,790)	22,180 (3,750-24,910)
	Airflow (H/M/L/Silent)	CMH		720/630/510/480	750/660/540/480	840/690/570/540	900/720/600/570
	Pipe Connections	Liquid Pipe Size	mm (inch)	6.35 (1/4")			
		Gas Pipe Size		9.52 (3/8")		12.7 (1/2")	
	Indoor Sound level (H/M/L/Silent)	dB(A)		38/32/26/19	41/35/28/19	46/39/31/27	47/42/33/28
	Net Dimensions	W x H x D	mm	900 x 300 x 230	900 x 300 x 230	900 x 300 x 230	900 x 300 x 230
	Net Weight	Kg		10.0	10.0	11.5	11.5
Dehumidifying Capacity	l/h		2.8	2.8	2.8	2.8	

Features



FrostWash®



3D Airflow



Timer



Powerful Mode



Auto Restart Function



Eco Mode



Smart Control (Optional)



PM 2.5 Wasabi Air Purifying Filter



Nano Titanium Stainless Pre-Filter



Fireproof Electrical Enclosure

Note:

- Unit comes with standard wireless controller.
- Cooling capacity is based on indoor temp. of 27°C DB / 19°C WB, and outdoor temp. of 35°C DB.
- This specification is subjected to change without prior notice.
- Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.
- Sound level was acquired in anechoic room. Actual noise level may differ depending on actual site and operating conditions.



Hitachi Single Split Inverter System

INDOOR UNIT



RAS-GJ10CMS | RAS-GJ13CMS
780 x 280 x 230
(W x H x D) mm

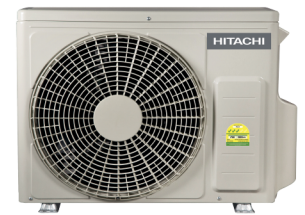


RAS-GJ18CMS
900 x 300 x 230
(W x H x D) mm



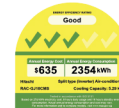
RAS-GJ24CMS
1100 x 300 x 260
(W x H x D) mm

OUTDOOR UNIT

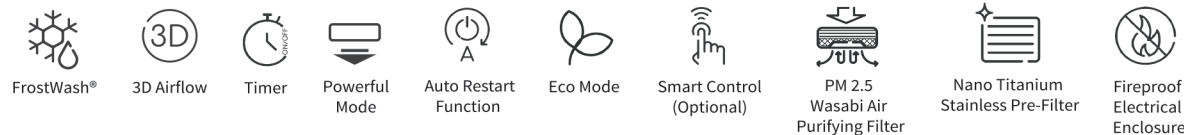


Refer to table for Dimensions

MODEL		INDOOR UNIT		RAS-GJ10CMS	RAS-GJ13CMS	RAS-GJ18CMS	RAS-GJ24CMS
		OUTDOOR UNIT		RAC-GJ10CMS	RAC-GJ13CMS	RAC-GJ18CMS	RAC-GJ24CMS
System	Power Supply	V / Hz / Ø		220-240V / 50Hz / 1Ø			
	Cooling Capacity	Rated (Min - Max)	kW	2.6 (0.9-3.6)	3.6 (0.9-4.2)	5.3 (0.9-6.5)	6.5 (1.5-8.8)
			Btu/hr	8,870 (3,240-10,580)	12,280 (3,240-13,990)	18,080 (3,240-22,100)	22,100 (5,110-30,000)
	Running Current	Rated	A	3.45	4.28	6.26	7.94
Indoor	Air Flow (H/M/L/Silent)	CMH		510/420/300/180	630/480/330/210	870/720/480/360	1020/840/600/480
	Indoor Sound Level (H/M/L/Silent)	dB(A)		41/32/24/19	43/33/27/19	48/40/33/30	48/42/36/30
	Net Dimensions	W x H x D	mm	780 x 280 x 230	780 x 280 x 230	900 x 300 x 230	1100 x 300 x 260
	Net Weight	Kg		8	8	10	15
	Dehumidifying Capacity	l/h		1.4	1.6	3.4	4.5
Outdoor	Refrigerant/ Compressor Type	R32/ DC Inverter					
	Outdoor Sound Level	dB(A)		50	50	52	52
	Net Dimensions	W x H x D	mm	658 x 530 x 275	750 x 570 x 280	850 x 650 x 298	850 x 745 x 298
	Net Weight	Kg		21	30	39	46
Piping Connections	Liquid Pipe Size	mm (Inch)		6.35 (1/4")			
	Gas Pipe Size			9.52 (3/8")	9.52 (3/8")	12.7 (1/2")	15.88 (5/8")
	Max. Piping Length	m		20			30
	Max. Piping Height			10			20



Features



Accessories for Both Single Split and Multi Split

STANDARD ACCESSORY



Wireless Controller
(RAR-7PA2)



Wired Remote Controller
(SPX-WKT3)



External Interfacing Cable
(SPX-WDC3)



H-Link Adaptor for
Central Remote Controller
(PSC-6RAD)



airCloud Home Wi-Fi
Adaptor
(SPX-WFG02)

OPTIONAL ACCESSORIES

Note:

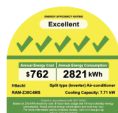
- Unit comes with standard wireless controller.
- Cooling capacity is based on indoor temp. of 27°C DB / 19°C WB, and outdoor temp. of 35°C DB.
- This specification is subjected to change without prior notice.
- Pictures shown are for illustration purpose only. Actual product may vary due to product enhancement.
- Sound level was acquired in anechoic room. Actual noise level may differ depending on actual site and operating conditions.

CU MODEL	COMBINATION	CAPACITY RATING (kW)						TOTAL INPUT (W)		CURRENT (A)	
		A	B	C	D	RATED	(MIN - MAX)	RATED	(MIN - MAX)	RATED	(MIN - MAX)
RAM-Z23C2MS (Without Current Limitation*)	2.6	2.60	-	-	-	2.60	(0.95-3.10)	600	(360-750)	2.7	(1.6-3.3)
	3.6	3.60	-	-	-	3.60	(0.95-4.10)	900	(360-1200)	4.0	(1.6-5.3)
	5.1	4.88	-	-	-	4.88	(1.10-5.80)	1250	(360-1800)	5.5	(1.6-7.9)
	6.5	4.88	-	-	-	4.88	(1.10-6.00)	1250	(360-1850)	5.5	(1.6-8.1)
	2.6 + 2.6	2.44	2.44	-	-	4.88	(2.00-6.00)	1002	(450-1500)	4.4	(2.0-6.6)
	2.6 + 3.6	2.05	2.83	-	-	4.88	(2.00-6.30)	1002	(450-1700)	4.4	(2.0-7.5)
	2.6 + 5.1	1.65	3.23	-	-	4.88	(2.00-6.80)	1002	(450-1900)	4.4	(2.0-8.3)
	2.6 + 6.5	1.39	3.49	-	-	4.88	(2.00-7.00)	1002	(450-2100)	4.4	(2.0-9.2)
	3.6 + 3.6	2.44	2.44	-	-	4.88	(2.00-6.60)	1002	(450-1800)	4.4	(2.0-7.9)
	3.6 + 5.1	2.02	2.86	-	-	4.88	(2.00-7.00)	1002	(450-2100)	4.4	(2.0-9.2)
	3.6 + 6.5	1.74	3.14	-	-	4.88	(2.00-7.00)	1002	(450-2100)	4.4	(2.0-9.2)
	5.1 + 5.1	2.44	2.44	-	-	4.88	(2.00-7.00)	1002	(450-2100)	4.4	(2.0-9.2)
	5.1 + 6.5	2.15	2.73	-	-	4.88	(2.00-7.00)	1002	(450-2100)	4.4	(2.0-9.2)
	6.5 + 6.5	2.44	2.44	-	-	4.88	(2.00-7.00)	1002	(450-2100)	4.4	(2.0-9.2)

CU MODEL	COMBINATION	CAPACITY RATING (kW)						TOTAL INPUT (W)		CURRENT (A)	
		A	B	C	D	RATED	(MIN - MAX)	RATED	(MIN - MAX)	RATED	(MIN - MAX)
RAM-Z30C3MS (Without Current Limitation*)	2.6	2.60	-	-	-	2.60	(0.95-3.10)	600	(360-750)	2.7	(1.6-3.3)
	3.6	3.60	-	-	-	3.60	(0.95-4.10)	900	(360-1200)	4.0	(1.6-5.3)
	5.1	5.10	-	-	-	5.10	(1.10-5.80)	1350	(360-1800)	5.9	(1.6-7.9)
	6.5	6.15	-	-	-	6.15	(1.10-7.30)	1800	(360-2100)	7.9	(1.6-9.2)
	2.6 + 2.6	2.60	2.60	-	-	5.20	(2.00-6.00)	1150	(450-1500)	5.1	(2.0-6.6)
	2.6 + 3.6	2.35	3.25	-	-	5.60	(2.00-6.40)	1300	(450-1700)	5.7	(2.0-7.5)
	2.6 + 5.1	2.03	3.97	-	-	6.00	(2.00-6.80)	1500	(450-1900)	6.6	(2.0-8.3)
	2.6 + 6.5	1.76	4.39	-	-	6.15	(2.00-7.50)	1700	(450-2100)	7.5	(2.0-9.2)
	3.6 + 3.6	2.90	2.90	-	-	5.80	(2.00-6.60)	1400	(450-1800)	6.1	(2.0-7.9)
	3.6 + 5.1	2.54	3.61	-	-	6.15	(2.00-7.00)	1700	(450-2100)	7.5	(2.0-9.2)
	3.6 + 6.5	2.19	3.96	-	-	6.15	(2.00-7.50)	1700	(450-2100)	7.5	(2.0-9.2)
	5.1 + 5.1	3.08	3.08	-	-	6.15	(2.00-7.50)	1700	(450-2100)	7.5	(2.0-9.2)
	5.1 + 6.5	2.70	3.45	-	-	6.15	(2.00-7.50)	1700	(450-2100)	7.5	(2.0-9.2)
	6.5 + 6.5	3.08	3.08	-	-	6.15	(2.00-7.50)	1700	(450-2100)	7.5	(2.0-9.2)
	2.6 + 2.6 + 2.6	2.05	2.05	2.05	-	6.15	(3.00-7.50)	1260	(750-1850)	5.5	(3.3-8.1)
	2.6 + 2.6 + 3.6	1.82	1.82	2.52	-	6.15	(3.00-7.80)	1260	(750-2000)	5.5	(3.3-8.8)
	2.6 + 2.6 + 5.1	1.55	1.55	3.05	-	6.15	(3.00-8.50)	1260	(750-2350)	5.5	(3.3-10.3)
	2.6 + 2.6 + 6.5	1.37	1.37	3.42	-	6.15	(3.00-8.90)	1260	(750-2300)	5.5	(3.3-10.1)
	2.6 + 3.6 + 3.6	1.63	2.26	2.26	-	6.15	(3.00-8.10)	1260	(750-2150)	5.5	(3.3-9.4)
	2.6 + 3.6 + 5.1	1.42	1.96	2.78	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	2.6 + 3.6 + 6.5	1.26	1.74	3.15	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	2.6 + 5.1 + 5.1	1.25	2.45	2.45	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	2.6 + 5.1 + 6.5	1.13	2.21	2.82	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	2.6 + 6.5 + 6.5	1.03	2.56	2.56	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	3.6 + 3.6 + 3.6	2.05	2.05	2.05	-	6.15	(3.00-8.70)	1260	(750-2400)	5.5	(3.3-10.5)
	3.6 + 3.6 + 5.1	1.80	1.80	2.55	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	3.6 + 3.6 + 6.5	1.62	1.62	2.92	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	3.6 + 5.1 + 5.1	1.60	2.27	2.27	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	3.6 + 5.1 + 6.5	1.46	2.06	2.63	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	3.6 + 6.5 + 6.5	1.33	2.41	2.41	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)
	5.1 + 5.1 + 5.1	2.05	2.05	2.05	-	6.15	(3.00-8.90)	1260	(750-2400)	5.5	(3.3-10.5)

* For current limitations information, please contact our General Enquiries- JCH-Sg-SalesEnquiry@jci-hitachi.com

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CU MODEL	COMBINATION	CAPACITY RATING (kW)						TOTAL INPUT (W)		CURRENT (A)	
		A	B	C	D	RATED	(MIN - MAX)	RATED	(MIN - MAX)	RATED	(MIN - MAX)
RAM-Z38C4MS (Without Current Limitation*)	2.6	2.60	-	-	-	2.60	(0.95 - 3.10)	600	(350 - 750)	2.7	(1.5 - 3.3)
	3.6	3.60	-	-	-	3.60	(0.95 - 4.10)	950	(350 - 1200)	4.2	(1.5 - 5.3)
	5.1	5.10	-	-	-	5.10	(1.10 - 5.80)	1400	(360 - 1800)	6.1	(1.6 - 7.9)
	6.5	6.50	-	-	-	6.50	(1.10 - 7.30)	1800	(360 - 2100)	7.9	(1.6-9.2)
	2.6+2.6	2.60	2.60	-	-	5.20	(1.50 - 6.00)	1150	(400 - 1500)	5.1	(1.8 - 6.6)
	2.6+3.6	2.35	3.25	-	-	5.60	(1.50 - 6.40)	1300	(400 - 1700)	5.7	(1.8 - 7.5)
	2.6+5.1	2.03	3.97	-	-	6.00	(1.50 - 6.80)	1500	(400 - 1900)	6.6	(1.8 - 8.3)
	2.6+6.5	1.76	4.39	-	-	6.15	(1.50 - 7.50)	1700	(400 - 2100)	7.5	(1.8 - 9.2)
	3.6+3.6	2.90	2.90	-	-	5.80	(1.50 - 6.60)	1400	(400 - 1800)	6.1	(1.8 - 7.9)
	3.6+5.1	2.54	3.61	-	-	6.15	(1.50 - 7.00)	1700	(400 - 2100)	7.5	(1.8 - 9.2)
	3.6+6.5	2.19	3.96	-	-	6.15	(1.50 - 7.50)	1700	(400 - 2100)	7.5	(1.8 - 9.2)
	5.1+5.1	3.08	3.08	-	-	6.15	(1.50 - 7.50)	1700	(400 - 2100)	7.5	(1.8 - 9.2)
	5.1+6.5	2.70	3.45	-	-	6.15	(1.50 - 7.50)	1700	(400 - 2100)	7.5	(1.8 - 9.2)
	6.5+6.5	3.08	3.08	-	-	6.15	(1.50 - 7.50)	1700	(400 - 2100)	7.5	(1.8 - 9.2)
	2.6+2.6+2.6	2.05	2.05	2.05	-	6.15	(2.50 - 7.50)	1260	(650 - 1850)	5.5	(2.9 - 8.1)
	2.6+2.6+3.6	1.82	1.82	2.52	-	6.15	(2.50 - 7.80)	1260	(650 - 2000)	5.5	(2.9 - 8.8)
	2.6+2.6+5.1	1.55	1.55	3.05	-	6.15	(2.50 - 8.50)	1260	(650 - 2350)	5.5	(2.9 - 10.3)
	2.6+2.6+6.5	1.37	1.37	3.42	-	6.15	(2.50 - 8.90)	1260	(650 - 2300)	5.5	(2.9 - 10.1)
	2.6+3.6+3.6	1.63	2.26	2.26	-	6.15	(2.50 - 8.10)	1260	(650 - 2150)	5.5	(2.9 - 9.4)
	2.6+3.6+5.1	1.42	1.96	2.78	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	2.6+3.6+6.5	1.26	1.74	3.15	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	2.6+5.1+5.1	1.25	2.45	2.45	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	2.6+5.1+6.5	1.13	2.21	2.82	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	2.6+6.5+6.5	1.03	2.56	2.56	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	3.6+3.6+3.6	2.05	2.05	2.05	-	6.15	(2.50 - 8.70)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	3.6+3.6+5.1	1.80	1.80	2.55	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	3.6+3.6+6.5	1.62	1.62	2.92	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	3.6+5.1+5.1	1.60	2.27	2.27	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	3.6+5.1+6.5	1.46	2.06	2.63	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	3.6+6.5+6.5	1.33	2.41	2.41	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	5.1+5.1+5.1	2.05	2.05	2.05	-	6.15	(2.50 - 8.90)	1260	(650 - 2400)	5.5	(2.9 - 10.5)
	2.6+2.6+2.6+2.6	1.83	1.83	1.83	1.83	7.30	(3.00 - 8.50)	1450	(700 - 1900)	6.4	(3.1 - 8.3)
	2.6+2.6+2.6+3.6	1.71	1.71	1.71	2.37	7.50	(3.00 - 9.50)	1470	(700 - 2200)	6.5	(3.1 - 9.7)
	2.6+2.6+2.6+5.1	1.51	1.51	1.51	2.97	7.50	(3.00 - 10.00)	1470	(700 - 2650)	6.5	(3.1 - 11.6)
	2.6+2.6+2.6+6.5	1.36	1.36	1.36	3.41	7.50	(3.00 - 10.50)	1470	(700 - 2900)	6.5	(3.1 - 12.7)
	2.6+2.6+3.6+3.6	1.57	1.57	1.18	2.18	7.50	(3.00 - 10.00)	1470	(700 - 2600)	6.5	(3.1 - 11.4)
	2.6+2.6+3.6+5.1	1.40	1.40	1.94	2.75	7.50	(3.00 - 10.50)	1470	(700 - 2900)	6.5	(3.1 - 12.7)
	2.6+2.6+3.6+6.5	1.27	1.27	1.76	3.19	7.50	(3.00 - 11.00)	1470	(700 - 3100)	6.5	(3.1 - 13.6)
	2.6+2.6+5.1+5.1	1.27	1.27	2.48	2.48	7.50	(3.00 - 11.00)	1470	(700 - 3300)	6.5	(3.1 - 14.5)
	2.6+2.6+5.1+6.5	1.16	1.16	2.28	2.90	7.50	(3.00 - 11.00)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+2.6+6.5+6.5	1.07	1.07	2.68	2.68	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+3.6+3.6+3.6	1.46	2.01	2.01	2.01	7.50	(3.00 - 10.30)	1470	(700 - 2800)	6.5	(3.1 - 12.3)
	2.6+3.6+3.6+5.1	1.31	1.81	1.81	2.57	7.50	(3.00 - 10.80)	1470	(700 - 3000)	6.5	(3.1 - 13.2)
	2.6+3.6+3.6+6.5	1.20	1.66	1.66	2.99	7.50	(3.00 - 11.00)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+3.6+5.1+5.1	1.19	1.65	2.33	2.33	7.50	(3.00 - 11.00)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+3.6+5.1+6.5	1.10	1.52	2.15	2.74	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+3.6+6.5+6.5	1.02	1.41	2.54	2.54	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+5.1+5.1+5.1	1.09	2.14	2.14	2.14	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+5.1+5.1+6.5	1.01	1.98	1.98	2.53	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	2.6+5.1+6.5+6.5	0.94	1.85	2.36	2.36	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+3.6+3.6+3.6	1.88	1.88	1.88	1.88	7.50	(3.00 - 10.50)	1470	(700 - 2900)	6.5	(3.1 - 12.7)
	3.6+3.6+3.6+5.1	1.70	1.70	1.70	2.41	7.50	(3.00 - 11.00)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+3.6+3.6+6.5	1.56	1.56	1.56	2.82	7.50	(3.00 - 11.00)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+3.6+5.1+5.1	1.55	1.55	2.20	2.20	7.50	(3.00 - 11.00)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+3.6+5.1+6.5	1.44	1.44	2.03	2.59	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+3.6+6.5+6.5	1.34	1.34	2.41	2.41	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+5.1+5.1+5.1	1.43	2.02	2.02	2.02	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+5.1+5.1+6.5	1.33	1.88	1.88	2.40	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	3.6+5.1+6.5+6.5	1.24	1.76	2.25	2.25	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	5.1+5.1+5.1+5.1	1.88	1.88	1.88	1.88	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)
	5.1+5.1+5.1+6.5	1.75	1.75	1.75	2.24	7.50	(3.00 - 11.20)	1470	(700 - 3400)	6.5	(3.1 - 14.9)

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