ROOM AIR CONDITIONER





Bigger Louvre, Bigger Fan, Superior Air Flow, Super Cool Mode That Cools You Immediately

Air Refreshing System

Nano Titanium Wasabi Air Purifying Filter

Often seen in Japanese restaurants offering sushi and sashimi, grated wasabi (Japanese horseradish) is well-known for its sinus-clearing spicy taste. The pungent component of wasabi has a strong antibacterial effect, and has long been an important spice for fresh food like raw fish. The new Nano Titanium Wasabi Air Purifying Filter is a cutting-edge technology that uses a Wasabi modified Nano Titanium catalyst to provide a powerful anti-bacterial, anti-mold, anti-allergen and deodorizing effect.

Antibacterial

Hitachi's new Nano Titanium Wasabi Air Purifying Filter has been proven to effectively deactivate over 99.99% of bacteria.



Mold and Fungi Suppression

The Nano Titanium Wasabi Air Purifying Filter dramatically suppresses fungal growth to keep your air fresh and free of mold at all times.

Fungus-Proof TestDeactivation



ted by the Nanopac Testing Laboratory omparison of two slices of fresh bread lef separate acrylic chambers ith and without the Nano Titanium ahi Solution for two v

Malavsia, Test Method: JIS72801:2000

With the Nano Titanium Wasabi Air Purifying Filter

How Nano Titanium works



UV Air Cleaner



The LEDs inside the indoor unit emits short wave ultra violet to kill microbes trapped in the air-conditioner filter, UV light's powerful germicidal effect soon deactivates microbes before they can spread to other areas in the room. This ensures the air you beathe is cleaner, fresher and healthier

Applicable models: RAS-S30CPZ, 30CH6, ME30CH, ME14CH, ME09CH, ME07CH

Safe & Durable

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The LEDs are installed completely in the indoor unit. So, there is no emission of the ray into the room and no harm to the human body. UV Air Cleaner uses UV-A, the wavelngth which is mild and only strong enough to affect microbes. Also the LEDs are durable enough to last up to 10 years, maintenance free.

Anti-Allergen

The Nano Titanium Wasabi Air Purifying Filter effectively deactivates harmful allergens such as dust mites and formaldehyde, which may cause allergic diseases such as asthma

Dust Mite Allergen Deactivation Formaldehyde Reduction Effect*1



Testing method: 6-hour FLIZA assay using dust mite allergen. Tested by the Inter Medical University Malaysia.

Odor Removal

The Nano Titanium Wasabi Air Purifying Filter thoroughly deodorizes air. Up to 82% removal in only an hour.

Ammonia Deodorizing Effect



*2 Test material: Nano Titanium Wasabi Air Purifying Filter (30.8 x 27.6cm 5T), Reactor volume: 1m3 nalysis: Gas Detector Tube Method. Flow rate through kit: 1m/s sted by the Nanopac Testing

Principle of Nano Titanium's action

The TiO2 catalyst has a bacteria deactivation and deodorizing effect.



Anti-bacterial Tangential Fan

Anti-bacterial treated T-fan prevents bacterial growth and provides better room hygiene.



It has silver and other ions with anti-microbial power bonded into its mineral structure. They are seldom erode out with water or solvent and thus its anti-microbial effect will last long

Test	Staphylococ	cus aureaus	Escherichia coli			
sample	Bacteria count	value of antimicrobial activity	Bacteria count	value of antimicrobial activity		
1	1.4E6	-	3.0E7	-		
2	10>	or higher 5.1	10>	or higher 6.5		

"E" appealing in the table indicates an exponent (eq. 1.0E5=1.0×10⁵)

"<10" appealing in the table means "NON DETECTED" Test Method: Evaluated according to JIS Z 2801 (year 2000 version)

Comfort and Reliability



For optimum comfort, just press the Super cool Mode button

A single press of the Super cool Mode button (solely for operating the Super cool Mode function) immediately starts Super cool Mode operation. In this mode, air flow reaches much further to quickly cool the room with maximum cooling power and the highest efficiency. When you arrive home on a hot day, just tap the button to feel cool and comfortable almost instantly.



Sireproof Electrical Enclosure

Customer safety is Hitachi's top priority. Hitachi prides itself on meeting the highest international manufacturing standards and insists on using 100% metal housing to enclose and tightly seal its electrical and electronic components. This ensures there is virtually no possibility of fire spreading and posing a safety hazard to our consumers.

Durable



Green Fin Condenser

Energy Saving



Inverter technology allows a room to reach the required temperature more rapidly and up to 30 % more efficiently than Constant Speed Systems. Inverter technology also eliminates the incessant use of the stop-start mechanism often required to maintain consistent levels of temperature. Rather than starting the motor up and stopping it when the room temperature is reached, the inverter systems adjust the speed of the compressor to an energy saving mode in order to maintain the desired temperature. Applicable models: RAS/RAC-80YH5A, 70YH7, 60YH7, 50FH7, S14H3A, S10H3A, E14H2A, E10H2A, E08H2A



Hitachi new 2-Cylinder compressor has less vibration and higher efficiency than single rotary compressors. With equivalent capacity, the compressor is 37 % more space saving and easy maintenance, suitable for installation in narrow areas with limited space.

Energy Saving Indoor Unit

1. Smooth Air Flow

To make air flow smoother, the air inlet is about 40% bigger than in conventional air conditioners. The smoother the air flow, the less electricity is needed for fan rotation.

2. Super Big Louver •

With a surface area 15% larger than before, the Super Big Louver helps to deliver and spread a larger amount of air using less energy.





82%

Testing method: 6-hour ELIZA assay using dust mite allergen. Tested by the International Medical University Malaysia.

Twin Air Swing



When the Parallel Swing function is selected, the air conditioner flaps swing together from left to right. You can enjoy comfortable cooling regardless of where the air conditioner flaps are facing.

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The "hum" normally caused by electromagnetic waves in conventional AC motors is totally eliminated with Hitachi's DC power system, whereby indoor unit operates at DC 35 V. In addition, a DC system is absolutely safe and 10 % more efficient than conventional systems.



Auto Restart

After a power failure, the air-conditioner resumes operation automatically in the same mode as before.

The Green Fin Condenser lasts up to 3 times longer than standard types, thanks to its coating of green rust-resistant coating. This innovative feature protects the condenser from adverse conditions, thus ensuring cost-effective, environment-friendly operation. Except: BAC-ME14HZ, ME10HZ, ME14HX1, ME09HX1, E14H2A, E10H2A, E08H2A

Lineup / Tropical Type Constant Speed





• (C) 8.10 (27,640) kW • (H) 8.55 (29,170) kW

Cooling Outdoor RAC-S24CPA/(G) RAC-S18CPA/(G) RAC-S30CPA/(G)

Heat Pump Outdoor RAC-S24HPA/(G) RAC-S18HPA/(G) RAC-S30HPA/(G)

RAC-ME10HA

RAC-ME14HA

RAC-MES10HA/(G)

RAC-MES14HA/(G)

RAC-MES14HA1

RAC-MES10HA1

Lineup / Non Tropical Type Constant Speed



Lineup / Non Tropical Type Deluxe Inverter



Specifications

Tropical Type Non Inverter Model

			Cooling Only		Cooling & Heating				
Madal	Indoor Unit	RAS-S18CPA/(G) RAS-S24CPA/(G)		RAS-S30CPA/(G)	AS-S30CPA/(G) RAS-S18HPA/(G)		RAS-S30HPA/(G)		
NOGEI	Outdoor Unit	RAC-S18CPA/(G)	RAC-S24CPA/(G)	RAC-S30CPA/(G)	RAC-S18HPA/(G)	RAC-S24HPA/(G)	RAC-S30HPA/(G)		
Phase/Frequency/Voltage ø,Hz		1φ/50/220-240	1φ/50/220-240	1¢/50/220-240	1φ/50/220-240	1φ/50/220-240	1φ/50/220-240		
Capacity: Cool/Heat kW		5.3	7.04	8.1	5.30/5.36	7.04/7.05	8.10/8.55		
Fotal Input: Cool/Heat W		1,900-2,020	2,265-2,400	2,900-3,000	1,900-2,020/1,600-1,710	2,265-2,400/2,365-2,540	2,900-3,000/2,900-3,060		
Fotal Amperes: Cool/Heat		8.80-8.70	10.8-10.50	13.30-12.60	8.80-8.70/7.50-7.50	10.8-10.50/11.40-11.20	13.30-12.60/13.30-12.90		
ER: Cool/Heat Btu/h.W		9.52-8.95	10.61-10.01	9.53-9.21	9.52-8.95/11.43-10.70	10.6-10.01/10.17-9.47	9.53-9.21/10.06-9.53		
COP: Cool/Heat		2.79-2.62	3.11-2.93	2.79-2.70	2.79-2.62/3.35-3.13	3.11-2.93/2.98-2.78	2.79-2.70/2.95-2.79		
Starting Current A		49	60	76/83	49	60	76/83		
Air Flow (HIHI/HI/M/L) m³/mir		17.5/15.3/12.5/11.0	18.4/17.5/12.0/9.8	17.5/15.3/12.5/11.0	17.5/15.3/12.5/11.0	18.4/17.5/12.0/9.8	17.5/15.3/12.5/11.0		
Dehumidifying Capacity		2.8	2.8	5.2	2.8	2.8	5.2		
Pipe Size: Liq	uid Line/Gas Line mn	6.35/12.7	6.35/15.88	6.35/15.88	6.35/12.7	6.35/15.88	6.35/15.88		
Dimensions	Indoor Unit mm	900 x 300 x 230	900 x 300 x 230	900 x 300 x 230	900 x 300 x 230	900 x 300 x 230	900 x 300 x 230		
N x H x D	Outdoor Unit mm	750 x 570 x 280	850 x 650 x 298	850 x 650 x 298	750 x 570 x 280	850 x 650 x 298	850 x 650 x 298		
Neight	Indoor Unit kg	11	11	11	11	11	11		
roigin	Outdoor Unit kg	38	52	60	38	52	60		

Non Tropical Type Non Inverter Model

		Cooling & Heating							
lodel	Indoor Unit	RAS-ME10HA	RAS-ME14HA	RAS-MES10HA RAS-MES10HA(G) RAS-MES10HA1	RAS-MES14HA RAS-MES14HA(G) RAS-MES14HA1				
nouci	Outdoor Unit	RAC-ME10HA	RAC-ME14HA	RAC-MES10HA RAC-MES10HA(G) RAC-MES10HA1	RAC-MES14HA RAC-MES14HA(G) RAC-MES14HA1				
Phase/Frequency/Voltage ø,Hz,V		1φ/50/220	1φ/50/220	1φ/50/220	1φ/50/220				
Capacity: Cool/Heat kW		2.60/3.00	3.40/3.80	2.60/3.00	3.40/3.80				
'otal Input: C	ool/Heat W	970/850	1,170/1,120	970/850	1,170/1,120				
otal Ampere	s: Cool/Heat A	4.5/3.95	5.40/5.20	4.5/3.95	5.40/5.20				
ER: Cool/He	at Btu/h.W	9.15/12.05	9.92/11.58	9.15/12.05	9.92/11.58				
COP: Cool/He	at	2.68/3.53	2.91/3.39	2.68/3.53	2.91/3.39				
Starting Curr	ent A	15/15	18/18	15/15	18/18				
ir Flow	m³/min	6.2/7.1	8.0/9.0	6.2/7.1	8.0/9.0				
)ehumidifyin	g Capacity L/h	1.0	1.5	1.0	1.5				
Pipe Size: Liquid Line/Gas Line mm		6.35 / 9.52	6.35 / 12.7	6.35 / 9.52	6.35/12.7				
)imensions	Indoor Unit mm	780 x 280 x 211	780 x 280 x 211	780 x 280 x 211	780 x 280 x 211				
V x H x D	Outdoor Unit mm	700 x 500 x 258	700 x 505 x 258	700 x 500 x 258	700 x 505 x 258				
Voight	Indoor Unit kg	9	9	9	9				
reight	Outdoor Unit kg	28	30	28	30				

INVERTER TYPE (NON TROPICAL TYPE)

			Cooling and Heating								
Madal	Indoor		RAS-S10H3A	RAS-S14H3A	RAS-50FH7	RAS-60YH7	RAS-70YH7	RAS-80YH5A	RAS-E08H2A	RAS-E10H2A	RAS-E14H2A
Model	Outdoor		RAC-S10H3	RAC-S14H3	RAC-50YH7A	RAC-60YH7A	RAC-70YH7A	RAC-80YH5	RAC-E08H2	RAC-E10H2	RAC-E014H2
Phase, Frequency, Voltage		φ , Hz, V	1φ, 50Hz, 220V-230V	1φ, 50Hz, 220V-230V	1¢, 50/60Hz, 220V-240V	1¢, 50/60Hz, 220V-240V	1φ, 50/60Hz, 220V-240V	1φ, 50Hz, 220V-240V	1φ, 50Hz, 220V-230V	1φ, 50Hz, 220V-230V	1φ, 50Hz, 220V-230V
Canacity	Cool	law	2.5 (0.90-3.10)	3.5 (0.90-4.00)	5.00 (0.90-5.20)	6.00 (0.90-6.50)	7.00 (1.50-8.00)	8.00 (1.50-8.50)	2.00 (0.90-2.50)	2.50 (0.90-3.10)	3.50 (0.90-4.00)
барасну	Heat	KW	3.4 (0.90-4.40)	4.2 (0.90-5.00)	6.00 (0.90-8.10)	6.80 (0.90-8.50)	8.00 (1.50-9.20)	9.30 (1.50-9.70)	2.50 (0.90-3.20)	3.40 (0.90-4.40)	4.20 (0.90-5.00)
Total Innut	Cool	w	700 (155-1290)	1090 (155-1460)	1560 (155-2200)	1850 (155-2300)	2170 (200-2820)	3070 (200-3850)	550 (155-1010)	700 (155-1290)	1090 (155-1460)
iotai input	Heat	vv	880 (115-1250)	1110 (115-1440)	1660 (155-2200)	1880 (115-2550)	2200 (200-2970)	3100 (200-3850)	580 (115-970)	880 (115-1250)	1110 (115-1440)
Total Amnorea	Cool		3.75-3.59	5.22-4.99	7.15-6.56	8.50-7.80	9.95-9.10	14.10-12.90	2.92-2.81	3.75-3.59	5.22-4.99
iotal Amperes	Heat	А	4.45-4.26	5.32-5.09	7.60-7.00	8.60-7.90	10.10-9.30	14.30-13.00	2.93-2.81	4.45-4.26	5.32-5.09
EED COD	Cool	lan/lan	3.57	3.21	3.21	3.24	3.23	2.61	3.64	3.57	3.21
EER GUP	Heat	KW/KW	3.86	3.78	3.61	3.62	3.64	3.00	4.31	3.86	3.78
Starting Current		Α	16	16	10	10	9.95	14	3.05	3.75	4.5
Recommended Fuse Size	;		-	-	16	20	-	-	-	-	-
Air Flow (HIHI/HI/M/L)	m³/min	8.5(C)/9.5(H)	10.0(C)/10.8(H)	12.0/9.5/6.5/5.5(C) 12.5/10.0/7.0/6.0(H)	15.5/11.5/9.0/8.0(C) 17.5/12.0/8.5/8.0(H)	17.0/14.5/10.5/8.5(C) 18.0/14.5/10.5/8.5(H)	19.0/16.5/13.5/12.0	7.3(C)/8.0(H)	8.5(C)/9.5(H)	10.0(C)/10.8(H)
Dehumidifying Capacity		l/h	1.4	1.6	2.8	2.8	4.5	5.2	1.2	1.4	1.6
Piping Size: Liquid Line/Gas Line		mm	6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.7	6.35/15.80	6.35/15.88	6.35/9.52	6.35/9.52	6.35/9.52
Net Dimension	Indoor Unit		780/280/220	780/280/220	780/280/220	1030/295/207	1150/333/245	1150/333/245	780/280/210	780/280/210	780/280/210
(W/H/D)	Outdoor Unit	mm	700/505/258	750/548/288	850/650/298	850/650/298	850/800/298	925/875/315	700/505/258	700/505/258	750/548/288
Not Woight	Indoor Unit	ka	9.5	9.5	9.5	12	15	15	9.5	9.5	9.5
	Outdoor Unit	ку	27	35	45	45	55	75	27	27	35

O Specifications and designs are subject to change without notice.

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