

**HITACHI**  
Inspire the Next

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# PREMIUM

Stylish Air Conditioner SX Series



## High-quality Air and High Energy-saving Performance

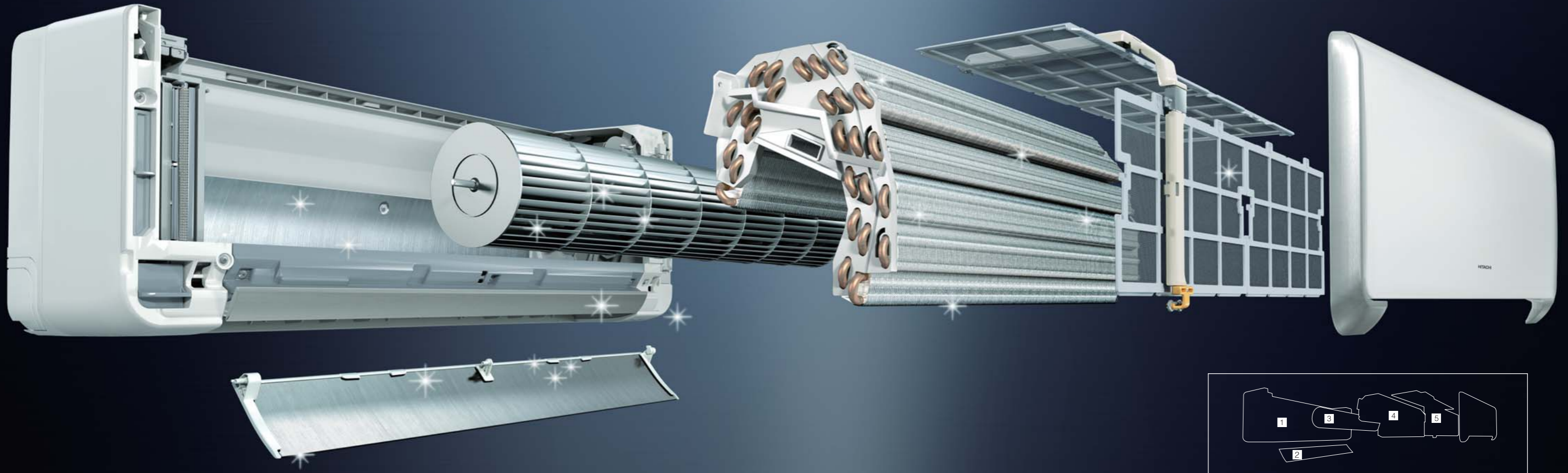
In today's living environment, people want the luxury of good room air. As air conditioners are a part of daily life, they should always produce high-quality air. Hitachi's PREMIUM air conditioner, the SX series, has a stainless-structured interior, which cleans the air from within the air conditioner. The series also includes new ideas and features to improve the quality of air, such as an ionized mist feature to disinfect and deodorize the room air. Furthermore, the powerful and excellent energy-saving performance, which has leading inverter technology in Japan, creates comfortable air-conditioning space with a simple and elegant design. Hitachi's PREMIUM air conditioner, the SX series, brings comfort to the body and heart.



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# For Truly Clean Air

The stainless materials interior keeps the air conditioner unit clean throughout, and completely disinfects the air from inlet to outlet.



## Stainless Air Duct

Stainless material is used for the air duct located in the back of the fan. This has disinfection and antifouling effects, and keeps the interior of the air conditioner clean.



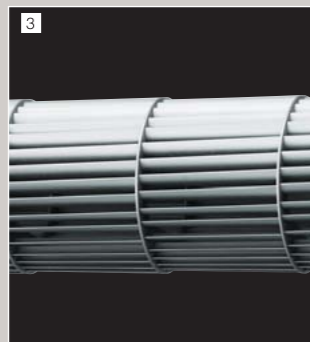
## Stainless Louver

Stainless material is used for the horizontal louver. This has disinfection and antifouling effects, and keeps the air outlet clean.



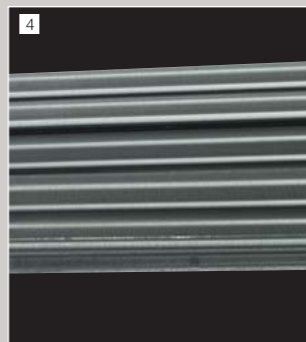
## Silver Ion Fan

The fan of the indoor unit is coated with metal including silver ions. This has disinfection and antifouling effects, and keeps the fan clean.



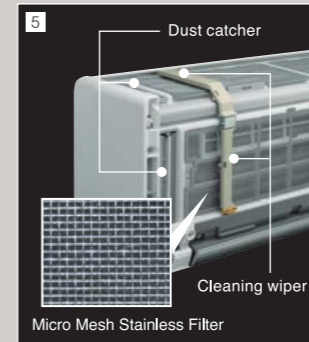
## Titanium Coated Heat Exchanger

The titanium catalyst coated on the heat exchanger decomposes odors, and has a deodorizing effect. It also has disinfection, antifouling, and fungal suppression effects.



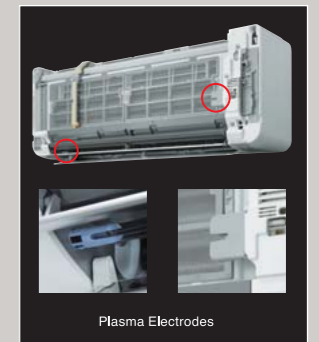
## Micro Mesh Stainless Filter

Contamination-resistant micro mesh stainless filter. Even greasy contaminants can be removed with a quick wipe. As it is stainless, it has a disinfection effect. With auto filter cleaning.

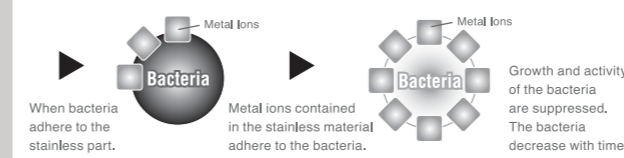


## Stainless Plasma Air Purification

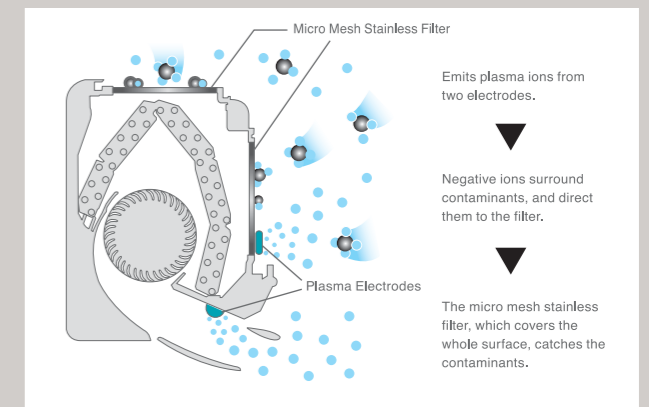
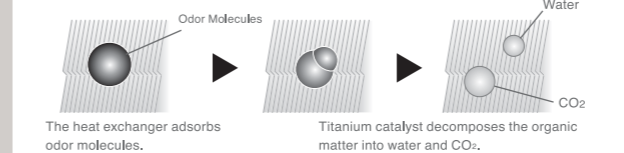
Negative ions are emitted from two plasma electrodes. The negative ions surround contaminants and effectively carry them to the micro mesh stainless filter, where they are captured.



### Disinfection Mechanism of Stainless



### Deodorizing Mechanism of Titanium Catalyst



# Refresh the Air with Ionized Mist!

Nano-size Ionized Mist has a strong deodorizing effect and suppresses the virus, bacteria and fungi in the air.



## Keep Your Room Clean with Ionized Mist

An ion generator installed in the unit generates ultrafine nano-size ionized mist, which is carried throughout the room by the air from the air conditioner. This ionized mist surrounds and suppresses virus, bacteria and fungi by 99.99%\*, and also decomposes and removes odors.

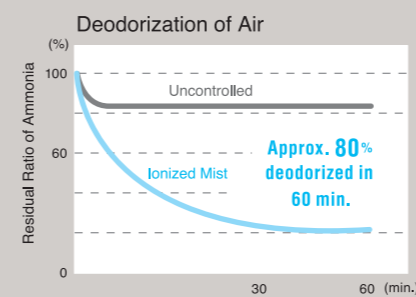
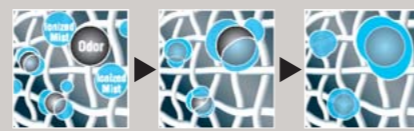
\* Tested with bacteria sprayed in a 1 m<sup>3</sup> test box. After some air circulation and generation of ionized mist, the number of virus, bacteria and fungi in the air were measured. After 40 min., 99.99% of bacteria were found to be suppressed. Tested by Kitasato Research Center of Environmental Sciences. Report No. KK18\_0040, KS18\_0214, KS18\_0215



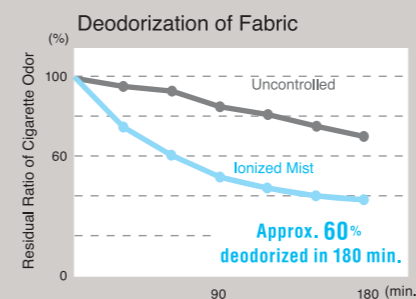
Ionized Mist is ultrafine nano-size. Therefore it is not visible to the naked eye.

## Outstanding Disinfection and Deodorizing Effects

The nano-size ionized mist decomposes and removes cooking, cigarette and pet odors, and even the odors ingrained into clothing or curtains.



Test results obtained in a 1 m<sup>3</sup> box with one indoor unit. Initial concentration of ammonia approx. 30 ppm, temperature 32°C, humidity 40 %



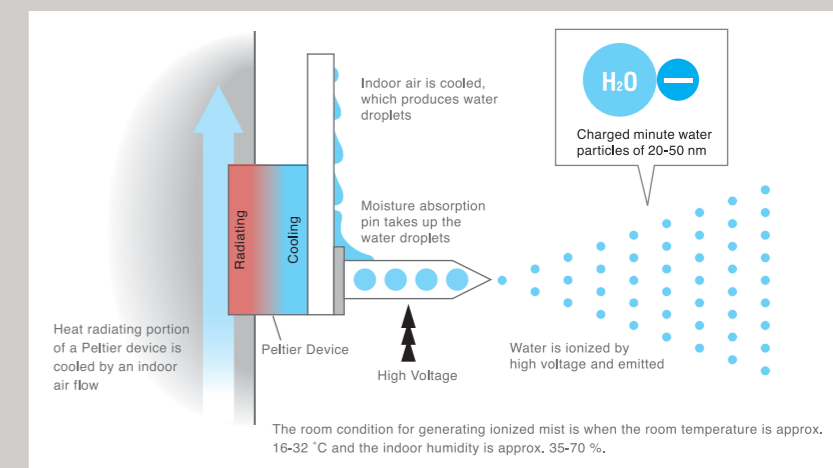
In a 22.7 m<sup>2</sup> room, hanging a cloth with the odor at a point 4 m away from the indoor unit, and measuring with an odor sensor. Temperature 32 °C, humidity 40 %

## Ionized Mist Generator

Applying the principle of beading on glass with iced water, inside the air conditioner water is produced from the air in the room. The water droplets are ionized with a high voltage, and emitted into the room. No water supply is necessary.



Ionized Mist Generator





# Innovative All-DC Inverter Technology

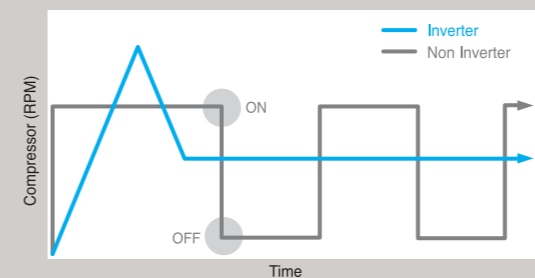
Powerful operation and highest energy-saving by cutting edge Inverter technology.

## High Efficient Inverter System

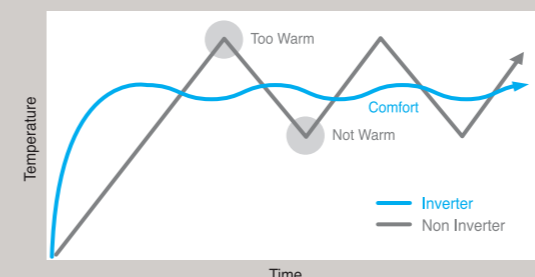
### Energy Saving & Powerful

Hitachi Inverter technology allows a room to reach the required temperature more rapidly, thus offering more efficiency, and also eliminates the stop-start operation used by constant speed systems. Hitachi Inverters adjust (increase/decrease) the speed of the compressor to an energy-saving mode in order to maintain the desired temperature. Also driven by an All-DC power system.

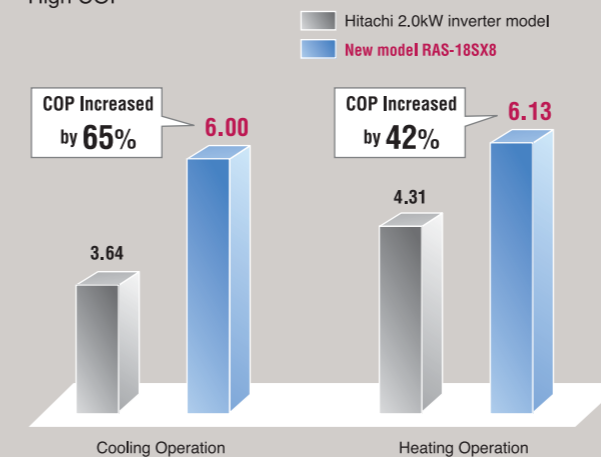
### Powerful Start-up & Energy Saving



### Precise Temperature Control



### High COP



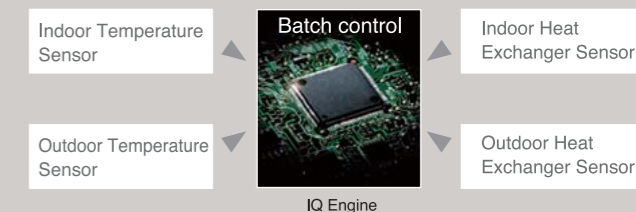
### Eco-Scroll Compressor

Efficiency has been improved by a large-capacity cylinder and by reducing the loss in the process of refrigerant compression. Equipped with a highly efficient motor, which runs even at low voltage after reaching a preset temperature.



## IQ Engine

While checking operating conditions 4000 times per sec, it allows highly efficient control of operations based on information from all the sensors on the indoor and outdoor units.



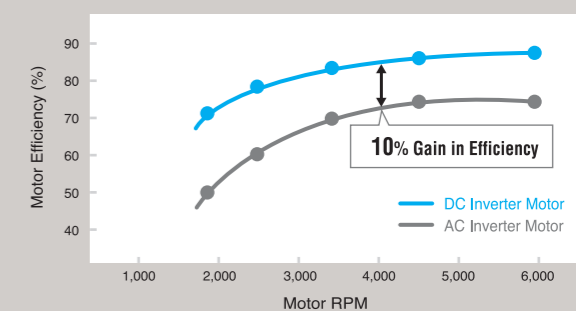
## Multi-dimensional Heat Exchanger

A compact but multi-dimensional Heat Exchanger in the innovatively stylish indoor unit promises high performance for comfort.

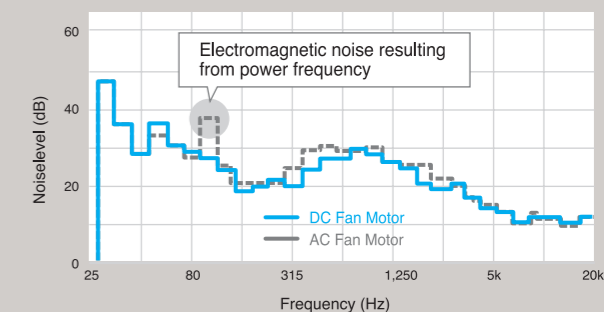
## DC Control

Hitachi's DC compressor features a "permanent magnet" motor while conventional motors cannot magnetize without electricity. As a result Hitachi's DC compressors deliver over 10% greater efficiency than conventional AC compressors. Also, the irritating "hum" caused by electromagnetic waves in AC motors is totally eliminated.

### Superior Performance



### Comparison of motor noises (Compared by Hitachi)



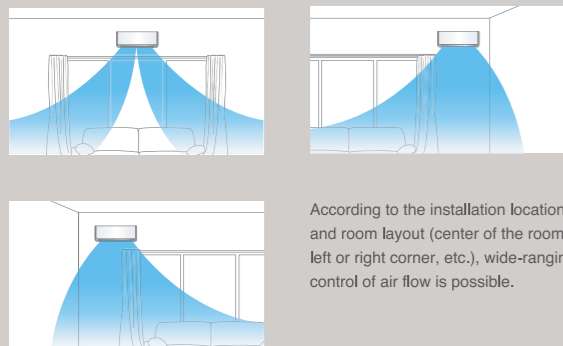
## Silent Operation

Silence is also achieved by a highly efficient inverter. In silent mode, it operates in 20-dB silence. (Ex-Low fan mode)

# Features for more comfort

## 162-degree Wide Air Flow

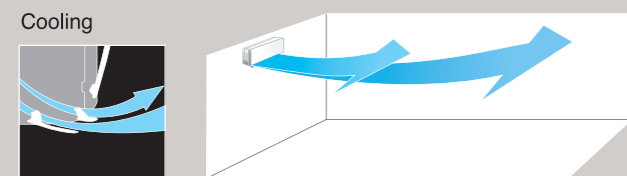
162-degree wide air flow. Regardless of installation location, the direction of the air flow can be controlled. Also comfortable in a large room.



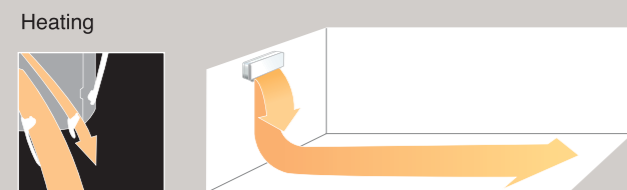
According to the installation location and room layout (center of the room, left or right corner, etc.), wide-ranging control of air flow is possible.

## Jet Flap

Convenience is enhanced by the jet flap, as the air flow is spread further when cooling and collected downward when heating.



Automatically directs the air flow towards the ceiling for efficient cooling.



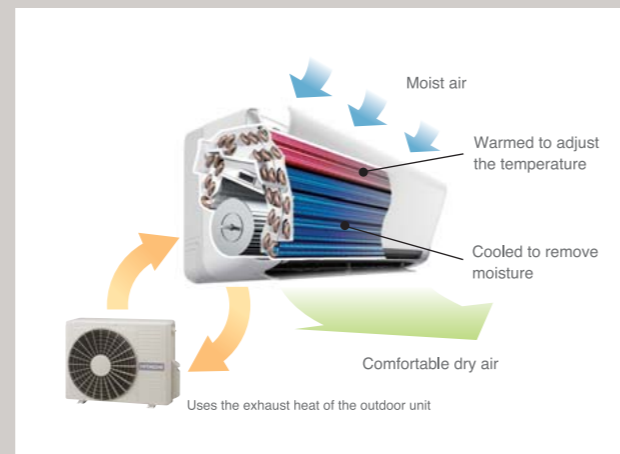
The jet flap forces the warm air downward for efficient heating.

## Air Quality Monitor Operation

The air quality sensor detects pollution of the air in the room and the air conditioner automatically performs stainless plasma air purifying operation in the event the air is not clean.

## Real Dry

The heat recycling system allows dehumidification without giving coldness. With an operation of approx. 40% humidity, it suppresses ticks and fungi. Also, operating modes such as Auto, Quick Laundry, House-sitter and Dew Condensation Control mode, etc., can be selected according to your needs.



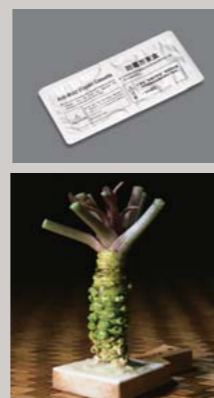
## During Real Dry and Dry Cool

Operation mode, humidity in the room can be controlled with remote. Press humidity control button, and the humidity will change by 5% in the range of 40~70%



## Wasabi Cassette

'Wasabi', the Japanese horse radish, which is often served with Sushi has an effect to prevent fungi and mold from growing. Wasabi cassette, which is located just beside the dust box of Automatic filter cleaner, utilize its potent in order to keep the dust box clean.



## Features

- Micro Mesh Stainless Filter
- Stainless-structured Interior
- Stainless Plasma Air Purification
- Ionized Mist Deodorization
- Auto Filter Cleaning
- Titanium-coated Heat Exchanger
- Silver Ion Metal-coated Tangential Fan
- Heating Operation Possible at -20°C



## Specifications SX series (Made in Japan)

Model	Indoor	RAS-18SX8	RAS-25SX8	RAS-35SX8
	Outdoor	RAC-18SX8	RAC-25SX8	RAC-35SX8
Power Supply	1 φ, 220-230V, 50Hz			
Cooling Capacity (min-max)	kW	1.8 (0.5-3.0)	2.5 (0.5-3.4)	3.5 (0.5-4.1)
Heating Capacity (min-max)	kW	2.3 (0.6-4.8)	3.2 (0.6-5.8)	4.2 (0.5-6.1)
Total Input	Cooling	W	300 (70-880)	465 (70-960)
	Heating	W	375 (65-1,070)	585 (65-1,410)
EER	Cooling		6.00	5.38
COP	Heating		6.13	5.47
Sound Pressure Level (Hi / Me / Lo / Ex-Lo)	Cooling	dB(A)	40 / 35 / 28 / 20	42 / 34 / 28 / 20
	Heating	dB(A)	41 / 35 / 30 / 20	42 / 35 / 30 / 20
Dimensions (H x W x D)	Indoor Units	mm	295 x 798 x 233	295 x 798 x 233
	Outdoor Unit	mm	570 x 750 x 288	570 x 750 x 288
Refrigerant			R410a	R410a
Pipe Run Max / Lift		m	20 / 10	20 / 10

Highly regarded for their energy-saving performance, the Hitachi RAS-S40X2, PAM air conditioners were awarded Japan's 2007 Energy Conservation Grand Prize.



Hitachi's "Misto De Uruoi Shirokuma-kun" S-series PAM air conditioners, highly acclaimed for their blend of high performance and attractive appearance, received Japan's 2008 Good Design Award.



Specifications in this catalogue are subject to change without notice, in order that HITACHI may bring the latest innovations to our customers.

 **Hitachi Appliances, Inc.**

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