SHARP

Be Original.

AIR OF CONfidence

AHXP10UXD

J-TECH INVERTER

DORAEMON ©Fujiko-Pro

ENERGY SAVINGS up to 65% reduction — Eco-Cooling

JAPAN QUALITY 7 SHIELDS — 7 Shields

Ion Plasmacluster — Plasmacluster Ion

SUPER JET — Super Jet Mode

Lock On Sensor

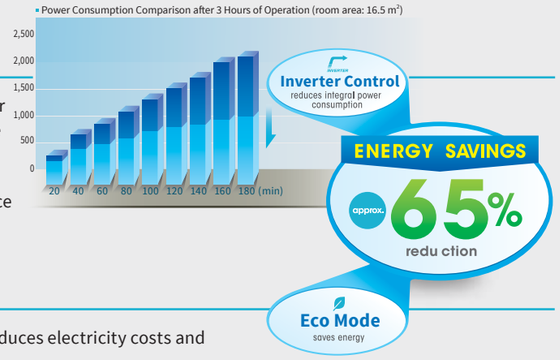
R32 ECO NEW REFRIGERANT SHARP

Save energy and cut costs

Eco Cooling

J-Tech Inverter

Sharp's J-Tech Inverter air conditioners turn precisely controlled power consumption into energy savings and energy-efficient operation. Once the preset room temperature has been reached, J-Tech Inverter air conditioners immediately go into an energy-saving-operation mode. They utilize high-power DC motors for the compressor and fan to reduce energy consumption and increase performance efficiency.



Eco Mode

Perfect for times when you don't need full-power cooling, Eco Mode reduces electricity costs and prevents over-cooling by adjusting power consumption in two steps.

Nature Wing Technology

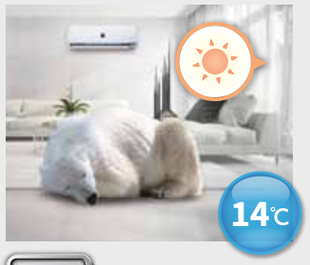
Airflow efficiency
UP 30% (comparison by Sharp)

To reduce the energy consumption of its air conditioners, Sharp used the science of biomimetics–the harnessing of concepts from nature to solve complex human design problems. The blades of the cross-flow fan in the indoor unit are modeled on the shape of a dragonfly wing, which is shaped so as to minimize air resistance. This Nature Wing design has resulted in a 30% improvement in airflow efficiency.

Powerful cooling ensures quick comfort

Strong Cooling

14°C Setting—Lowest Temperature in the Industry



These Sharp air conditioners can be set to a temperature of 14°C—the lowest in the industry—for effective cooling in severely hot weather. Even when outside temperatures soar, this improved cooling capacity serves to keep you optimally refreshed.

Industry's lowest temperature setting

Dragonfly Wing Fan

Featuring blades modeled after the shape of a dragonfly wing, the cross-flow fan* boasts a diameter that is among the largest for an air conditioner in the 9,000 BTU class. This fan can deliver a massive amount of air all the way across the room.

W Flex Louver

Up/Down

The louver turns left or right at wider angles than on previous models to deliver 50% broader coverage and a more diffuse flow of air throughout the room. The louver can be adjusted to your desired angle.

Wider range of cooling

Left/Right

Measured from the center, the louver rotates 180 degrees to vertically control the flow of air over a wider range than on previous models. This creates an optimal airflow that spreads cool air to all corners of the room.

Long Airflow with Coanda Technology

Sharp air conditioners exploit the Coanda effect*—a natural tendency for a jet of gas or liquid to be attracted to nearby surfaces. The air conditioners aim the airflow at walls or ceilings to provide more precise directional control. Cool air can travel up to 14 meters across the room to create an extended comfort zone. This saves energy and gives greater installation freedom.

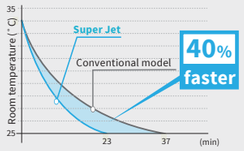
*The Coanda effect was discovered in 1930 by the Romanian aerodynamicist H.M. Coanda (b. 1885).

Super Jet Mode

Super Jet Mode delivers strong blasts of chilled air that automatically decrease the temperature in the room by 5°C in just five minutes.
With this mode, the room temperature reaches the preset level approximately 40% faster than with conventional models, as shown in the graph below. Super Jet Mode cools the room quickly, so you don't have to wait long for comfort to arrive.

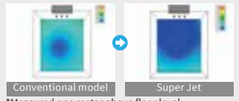
Cooling speed comparison

(Cooling capacity: 9000 BTU/h, room area: 13.2 m²)



Cool blasts of air provide fast relief

Temperature distribution on floor*



*Measured one meter above floor level.
Cooling capacity: 9,000 BTU/h,
outdoor temperature: 35°C

Plasmacluster protects the air you breathe

Healthy Cooling

Plasmacluster Technology

Plasmacluster Ions clean the air in the room

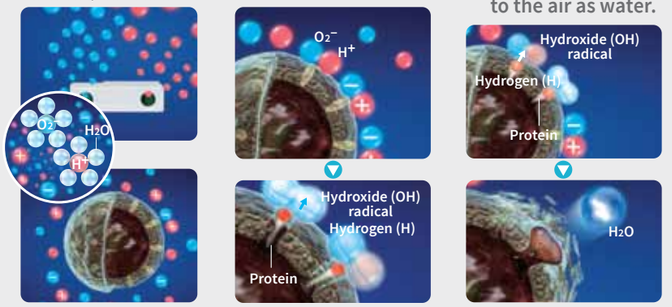
The air inside ordinary houses contains invisible, harmful organisms such as bacteria and viruses. The unique Plasmacluster Ion technology installed in Sharp air conditioners uses the actions of positive and negative ions to clean up these airborne contaminants and create a pleasant living space.

Plasmacluster mechanism for removing microbes

1 Ions are released.
The ions are long lasting, as they are surrounded by water molecules.

2 The ions act on airborne microbes.

3 The broken-down components return to the air as water.



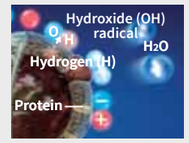
Breathe easy with Plasmacluster-clean air

99% removal

Sharp's proprietary Plasmacluster Ion technology removes airborne bacteria, suppresses airborne viruses, and breaks down and removes airborne mold and other contaminants.

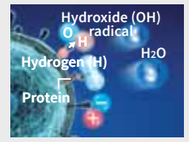
Suppresses the activity of airborne microbes*1

Plasmacluster 7000 **removed 99.0%** of airborne microbes after 38 minutes in an approx. 40 m³ experimental chamber.



Suppresses the activity of airborne viruses*2

Plasmacluster 7000 **removed 99.0%** of airborne viruses after 83 minutes in an approx. 25 m³ experimental chamber.



Plasmacluster is used in a variety of industries

For homes
Toilet, Bathroom, Ventilation system

For vehicles
Car, Bus, Train

For buildings
Office, Factory, Hospital, Hotel

*1 • Tested by Dr. Melvin First, Harvard School of Public Health, USA • Test method: Microbes were inserted into the air of an approx. 40 m³ experimental chamber. The remaining microbes were collected to measure the removal rate. • Test results: In about 38 minutes, Plasmacluster Ions removed 99.0% of airborne microbes. *2 • Tested by Pasteur Institute, Ho Chi Minh City, Vietnam • Test method: Viruses were suspended in the air inside a 25 m³ experimental chamber, Plasmacluster Ions were generated, and the percentage of airborne viruses removed was measured. • Test results: In about 83 minutes, Plasmacluster Ions removed 99.0% of airborne viruses. (Plasmacluster Ion density: 7,000 ions/cm³)

Protection against seven elements for long-term reliability

Durable Cooling

Fire Shield

6-Sided All-Metal Enclosure

The design of the metal enclosure for the inverter's outdoor circuit board meets USA safety standards (UL Standard).

Additional Electrical Coating

The circuit board has a protective coating that improves electrical insulation and reduces the risk of sparks, fire, and tracking—even in the presence of dust, moisture, or insects.

Safety Terminal Board

To ensure safety, the power supply is cut off if the temperature surrounding the terminal board becomes too high.

Corrosion Shield

Micro-Channel Heat Exchanger

Thanks to their corrosion resistance, the all-aluminum heat exchangers used in Sharp air conditioners promote reliable operation, leading to energy savings and reduced costs.

Damage Shield

Drop Tests

Sharp conducts drop tests to determine how well its packaging can stand up to impact and protect the product inside from delivery-related damage.

Lightning Shield

Lightning Protection Circuit

Varistors prevent damage by absorbing and stabilizing voltage spikes caused by lightning strikes.

Voltage Shield

130 V Operation

Sharp air conditioners can provide operation at a low voltage of just 130 V, even in areas with unstable voltage.

Vibration Shield

Connectors with Locks

To ensure safe operation, all Sharp air conditioners use high-quality, Japanese-brand connectors that include locks for key parts and for high-wattage parts.

Vibration Tests

Sharp conducts vibration tests to ensure that the quality of Sharp air conditioners will not be affected by even the roughest handling during delivery.

Squall Shield

Wind- and Rainproof Casing

The durable design of Sharp air conditioners protects them from damage brought on by the winds and rain that can occur during downpours and thunderstorms.

Technical Specifications

Premium

AHXP13UXD

Deluxe

AHXP24UHD

Standard

AHX24UED

												
MODEL	Series		Premium Inverter		Deluxe Inverter				Standard Inverter			
	Model Name	Indoor	AHXP10UXD	AHXP13UXD	AHXP10UHD	AHXP13UHD	AHXP18UHD	AHXP24UHD	AHX9UED	AHX12UED	AHX18UED	AHX24UED
		Outdoor	AUX10UXD	AUX13UXD	AUX10UHD	AUX13UHD	AUX18UHD	AUX24UHD	AUX9UED	AUX12UED	AUX18UED	AUX24UED
SPECIFICATIONS	Cooling Capacity	BTU	9,720 (2,860 - 12,400)	12,500 (2,860 - 15,000)	9,700 (3,070 - 10,600)	12,500 (3,070 - 13,600)	18,000 (5,460 - 20,500)	21,300 (5,460 - 24,200)	9,700 (3,070 - 10,600)	12,500 (3,070 - 13,600)	17,100 (5,120 - 18,800)	20,500 (5,800 - 23,200)
	Power Input	W	695	950	890	1,160	1,440	1,800	890	1,160	1,480	1,830
	Running Current	A	4.0	5.0	5.3	6.6	7.0	8.9	5.3	6.6	7.0	8.9
	EER	BTU/W	14.0	13.2	10.7	10.8	12.5	11.8	10.7	10.8	11.5	11.2
	COP		4.1	3.9	3.1	3.2	3.7	3.5	3.1	3.2	3.4	3.3
	Star rank		★5	★5	★5	★5	★5	★5	★5	★5	★5	★5
	Power Supply	V-Hz	220-240V 50Hz		220-240V 50Hz				220-240V 50Hz			
	Air Flow	m^3/min	9.0	11.5	9.8	10.3	14.2	16.0	9.8	10.3	14.2	16.0
	Noise Level	dB (A)	19.0	19.0	21.0	23.0	29.0	29.0	21.0	23.0	29.0	29.0
	Dimension (W × H × D) Indoor	mm	856 x 290 x 244	856 x 290 x 244	877 x 292 x 222	877 x 292 x 222	1006 X 316 X 248	1006 X 316 X 248	877 x 292 x 222	877 x 292 x 222	1006 X 316 X 248	1006 X 316 X 248
	Dimension (W × H × D) Outdoor	mm	598 x 495 x 265	598 x 495 x 265	598 × 495 × 265	730 × 540 × 250	780 × 540 × 269	850 × 710 × 330	598 × 495 × 265	730 × 540 × 250	780 × 540 × 269	850 × 710 × 330
	Net Weight Indoor	kg	8	9	8	9	12	12	8	9	12	12
	Net Weight Outdoor	kg	20	20	21	25	29	42	21	25	33	42
	Refrigerant		R32		R410A				R410A			
	Pipe Diameter	inch	1/4, 3/8	1/4, 3/8	1/4, 3/8	1/4, 1/2	1/4, 1/2	1/4, 1/2	1/4, 3/8	1/4, 1/2	1/4, 1/2	1/4, 1/2
	Pipe Length (Min-Max)	m	3-15		3-15				3-15			
	Maximum Chargeless Length	m	7.5		7.5				7.5			
	Maximum Height Difference	m	7	7	7	7	10	10	7	7	10	10
FEATURES	Plasmacluster Ion		●	●	●	●	●	●	–	–	–	–
	Powerful Jet Mode		–	–	●	●	–	–	●	●	–	–
	Super Jet Mode		●	●	–	–	●	●	–	–	●	●
	W Flex Louver		●	●	–	–	●	●	–	–	●	●
	Dragonfly Fan		●	●	–	–	–	–	–	–	–	–
	14°C Temperature Setting		●	●	–	–	–	–	–	–	–	–
	14m Long Airflow		●	●	●	●	●	●	●	●	●	●
	Coanda Airflow System		●	●	●	●	●	●	●	●	●	●
	Baby Mode		●	●	●	●	●	●	●	●	●	●
	Quiet Operation		●	●	●	●	●	●	●	●	●	●
	Best Sleep Mode		●	●	●	●	●	●	●	●	●	●
	Breeze Mode		●	●	–	–	–	–	–	–	–	–
	Lock-On Sensor		●	●	●	●	●	●	–	–	–	–
	Self-Cleaning		●	●	●	●	●	●	–	–	–	–

強 Strong Cooling

Sharp's powerful airflow technology delivers cool air farther throughout the room and into every corner.

健 Healthy Cooling

Sharp air conditioners don't just cool. They purify the air with Plasmacluster technology, so that everyone in your family can breathe clean, healthy air.

Ion Plasmacluster

耐 Durable Cooling

Sharp air conditioners are protected with 7 Shields—time-proven Sharp Japan technologies—that ensure solid operation over the long term.

JAPAN QUALITY 7 SHIELDS

省 Eco Cooling

An energy-efficient inverter and Eco Mode can deliver around 65% savings in energy consumption. Further energy efficiency comes from Sharp's unique Nature Wing technology.

Down approx. 65%

R32 Refrigerant

Sharp believes that the best way to minimize environment impact is to consider everything that might factor into global warming-from refrigerant production and the discharge of refrigerant into the air during installation to the power consumed by the equipment used. That's why some Sharp air conditioners employ R32, a new refrigerant with low environment impact. Compared to HFC410A (R410A) refrigerant, R32 has approximately 1/3* the global warming potential and less environment impact. It also offers greater energy efficiency and can be used in lower volumes.

**Source: IPCC Fourth Assessment Report-Direct Global Warming Potentials. Comparison with 675 (R32) and 2090 (R410A) based on 100-year GWP metric.*

Design and Specification are current as of JULY 2017, but subject to change without prior notice. Actual colours may differ slightly in this catalogue.

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