

SHARP

Be Original.

AIR^{OF} *confidence*



SHARP NON-INVERTER AIR CONDITIONERS 2017



Baby Mode



6 Shields



Plasmacluster Ion



Super Jet Mode



Long Air Flow





Plasmacluster protects the air you breathe
Healthy Cooling

Plasmacluster Technology

Plasmacluster Ions clean the air in the room

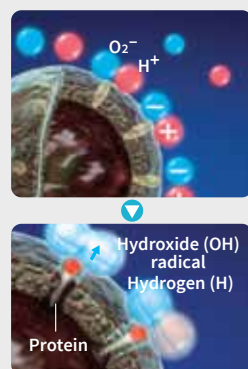
The air inside ordinary houses contains invisible, harmful organisms such as bacteria and viruses. The unique Plasmacluster Ion technology installed in Sharp air conditioners uses the actions of positive and negative ions to clean up these airborne contaminants and create a pleasant living space.

Plasmacluster mechanism for removing microbes

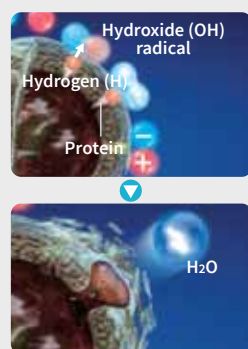
1 Ions are released.
The ions are long lasting, as they are surrounded by water molecules.



2 The ions act on airborne microbes.



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

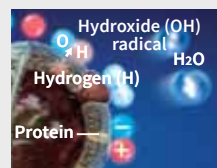


Breathe easy with Plasmacluster-clean air **99% removal**

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

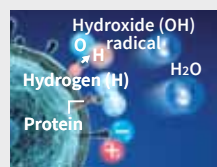
Suppresses the activity of airborne microbes*1

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



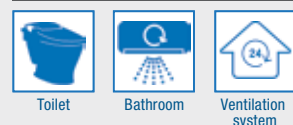
Suppresses the activity of airborne viruses*2

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

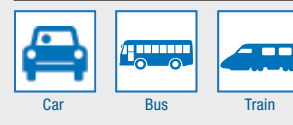


Plasmacluster is used in a variety of industries

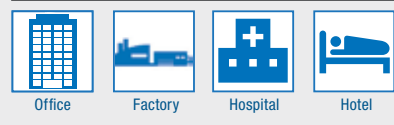
For homes



For vehicles



For buildings



*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 six 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

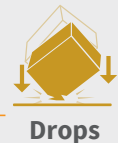
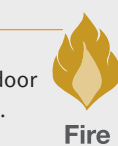
Micro-Channel Heat Exchanger

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.

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.

Spreading coolness to every corner of the room
Strong Cooling



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).

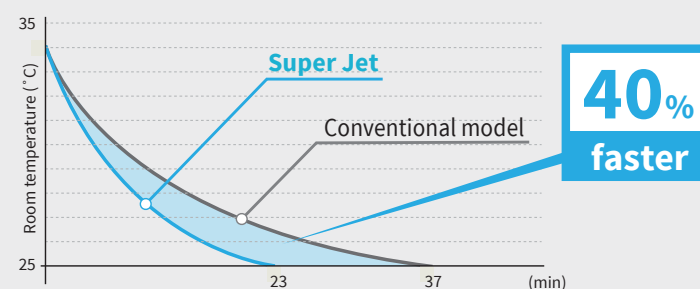


Super Jet Mode



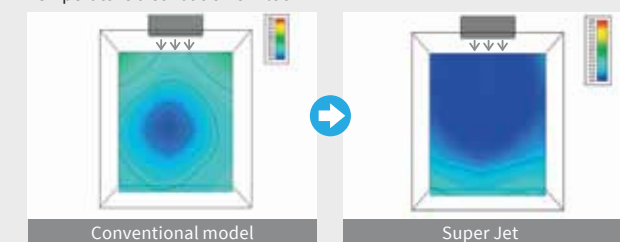
Super Jet Mode delivers strong blasts of chilled air that automatically decrease the temperature in the room by 5°C in just five minutes. With this mode, the room temperature reaches the preset level approximately 40% faster than with conventional models, as shown in the graph below. Super Jet Mode cools 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



R410A Refrigerant

Sharp believes that the best way to minimize environmental 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 use R410A, a refrigerant with low environmental impact. It also offers greater energy efficiency and can be used in lower volumes.

*Only applicable to SMD series.

Technical Specifications



		Premium Non-Inverter				Standard Non-Inverter				
MODEL	Series									
	Model Name	Indoor	AHAP9SMD2	AHAP12SMD	AHAP18SMD	AHAP24SMD	AHA9UCD	AHA12UCD	AHA18UCD	AHA24UCD
		Outdoor	AUA9SMD2	AUA12SMD	AUA18SMD	AUA24SMD	AUA9UCD	AUA12UCD	AUA18UCD	AUA24UCD
Cooling Capacity		BTU	9,210	12,000	18,000	23,500	9,210	12,500	18,500	23,000
Power Input		W	820	1,050	1,890	2,590	857	1,174	1,882	2,240
Running Current		A	3.8	4.9	8.9	12.0	3.22	4.8	7.68	9.9
EER		BTU/W	11.2	11.4	9.5	9.1	10.8	10.7	9.82	10.27
COP			3.3	3.3	2.8	2.7	3.2	3.1	2.88	3.01
Star rank			★4	★3	★3	★3	★3	★3	★4	★4
Power Supply		V-Hz	220-240V 50Hz				220-240V 50Hz			
Air Volume		m ³ /min	10.3	10.8	18.2	19.2	10.1	11.1	18.2	19.2
Noise Level		dB (A)	28.0	31.0	36.0	39.0	37.0	43.0	46.0	48.0
Dimension (W x H x D)	Indoor	mm	877 x 292 x 222	877 x 292 x 222	1006 X 316 X 248	1006 X 316 X 248	790x275x200	849x289x210	970x300x224	1078x325x246
	Outdoor	mm	598 x 495 x 265	730 x 540 x 250	780 x 540 x 269	850 x 710 x 330	776x540x328	776x540x320	848x540x320	913x680x378
Net Weight	Indoor	kg	9	9	12	12	9	10.5	13.5	17
	Outdoor	kg	23	26	33	46	27.5	27.5	39.5	49
Refrigerant			R410A				R410A			
Pipe Diameter		inch	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, 5/8
Pipe Length (Min-Max)		m	3-15				3-15	3-20	3-25	
Maximum Height Difference		m	7	7	10	10	10	10	10	10
FEATURES	Plasmacluster Ion		●	●	●	●	-	-	-	-
	Turbo Mode		-	-	-	-	●	●	●	●
	Powerful Jet Mode / Super Jet Mode		● (Powerful Jet)	● (Powerful Jet)	● (Super Jet)	● (Super Jet)	-	-	-	-
	W Flex Louver		-	-	●	●	-	-	-	-
	14m Long Airflow		●	●	●	●	-	-	-	-
	Coanda Airflow System		●	●	●	●	-	-	-	-
	LED Display		-	-	-	-	●	●	●	●
	Comfort Mode		●	●	●	●	-	-	-	-
	Energy Saving Mode		-	-	-	-	●	●	●	●
	Baby Mode		●	●	●	●	-	-	-	-
	Quiet Operation		●	●	●	●	-	-	-	-
	Self-Diagnosis		●	●	●	●	●	●	●	●
	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.

耐 Durable Cooling

Sharp air conditioners are protected with 6 Shields—time-proven Sharp Japan technologies—that ensure solid operation over the long term.

省 Eco Cooling

Sharp air-conditioners with high EER ratings achieve better energy savings. In care of our environment, Sharp non-inverter air conditioners utilize R410a, a refrigerant with low environmental impact that also offers greater energy efficiency.

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



SHARP-ROXY SALES & SERVICE COMPANY (M) SDN.BHD. (8394-W)
 No.1A, Persiaran Kuala Langat, Section 27,
 40400 Shah Alam, Selangor Darul Ehsan.
www.sharp.com.my Email: productinfo@my.sharp-world.com

Product Enquiry: Tel: 03-5102 5369
 Service Enquiry: Tel: 1800 888 678 (Toll Free)
 Fax: 03-5102 5329
 SharpMalaysia

