SHARP

DUCTLESS BI-BLOCK WALL UNIT



A PIONEER IN INNOVATING
THE HIDDEN PROPERTIES OF AIR

R32 ECO

Refrigerant R32 | Environmentally friendly

Plasmacluster

WWW.SHARPHVAC.CA

*** Plasmacluster is a registered trademark or trademark of SHARP Corporation.**

SHARP



Here is the first mechanical pencil of **SHARP** in 1915!
More than 100 years later, **SHARP** continues to create cutting-edge products to improve everyday life.

SHARP HAS BEEN MANUFACTURING AIR CONDITIONERS SINCE 1958

110th ANNIVERSARY

1958 — Introduction of the **SHARP** water-cooled air conditioner



1983 — Introduction of the remote control with integrated temperature and humidity sensor

1987 — **SHARP Appliances Ltd. (SATL)** Start of air conditioner production (Thailand)



1992 — **Shanghai SHARP Air-Conditioning Systems Co., Ltd (SSAC) (now Shanghai SHARP Electronics Co., Ltd [SSEC])** has started the production of air conditioners

1996 — Introduction of the first air conditioner with cooling, heating, dehumidifying, humidifying and ventilating modes

2001 — Start of sales of air conditioners with Plasmacluster technology



2004 — Introduction of the air conditioner with double flap airflow mechanism



2006 — Introduction of environmentally friendly air conditioners with airflow control systems



2013 — **SHARP** enters the minisplit market in North America



2016 — Introduction of the **THU Series** in North America for extreme climate



2023 — Introduction of the **ZU/ZHU Series** in North America



2024 — Introduction of the **Airest Series**



2025 — Introduction of the **CU/CHU Series**



2026 — Introduction of the **FilterSweep Series**

SHARP

SHARP, the company that supports and improves the lives of people around the world, thanks to its thousands of much-loved products.



SHARP'S GLOBAL FOOTPRINT

Thaïlande - SHARP Appliances (Thaïlande) Ltd. (SATL), Chachoengsao



Japan—Yao Plant, Osaka Engineering, Product and Sales Planning







With all these efforts, **SHARP** is committed to assuming its social responsibility in the sustainable development of society and business.

SHARP



BENEFITS OF PLASMACLUSTER

With positive and negative ions that make the air healthy and purified, the SHARP Plasmacluster offers many benefits.

ROOM AIR PURIFICATION



The effects of Plasmacluster vary depending on the environment, usage (temperature, humidity, room size, absence/presence of air conditioner and ventilation systems, location of installation, etc.), product characteristics, product usage (direction of ion generator, mode of operation, duration of operation, etc.), and the characteristics of each user.

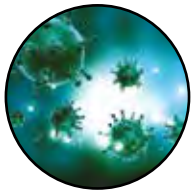
The test results are not proven results in actual use environments. The examples given below are for reference only.



MOLD

Eliminates airborne mold
Effect after 84 minutes in a test space of 31 m^3 to 55 m^3 (for air conditioner equipped with Plasmacluster)

Suppress the proliferation of adhering molds
Effect after 8 days in a 20 m^3 test space (for air conditioner equipped with Plasmacluster)



VIRUS

Suppresses airborne virus activity
Effect after 9 minutes in an airtight test space of 25 m^3 (for air purifiers equipped with the Plasmacluster)

Suppresses the activity of adherent viruses
Effect after 7.5 hours in an airtight test space of 25 m^3 (for air purifiers equipped with the Plasmacluster)



BACTERIA

Suppresses the activity of airborne bacteria
Effect after 14 minutes in an airtight test space of 25 m^3 (for air purifiers equipped with the Plasmacluster)

Suppresses the activity of airborne allergens
Effect after 14 minutes in an airtight test space of 25 m^3. (for air purifiers equipped with the Plasmacluster)



SHARP'S PLASMACLUSTER PATHWAY

Since its introduction in the early 2000s with the first air purifiers equipped with the exclusive Plasmacluster technology, SHARP has reached over 100 million units worldwide by the end of 2022.

SHARP



THE AIR WE BREATHE IS A BASIC HUMAN NECESSITY

ODOR ELIMINATION



The effects of Plasmacluster vary depending on the environment, usage (temperature, humidity, room size, absence/presence of air conditioner and ventilation systems, location of installation, etc.), product characteristics, product usage (direction of ion generator mode of operation, duration of operation, etc.), and the characteristics of each user.

The test results are not proven results in actual use environments. The examples given below are for reference only.

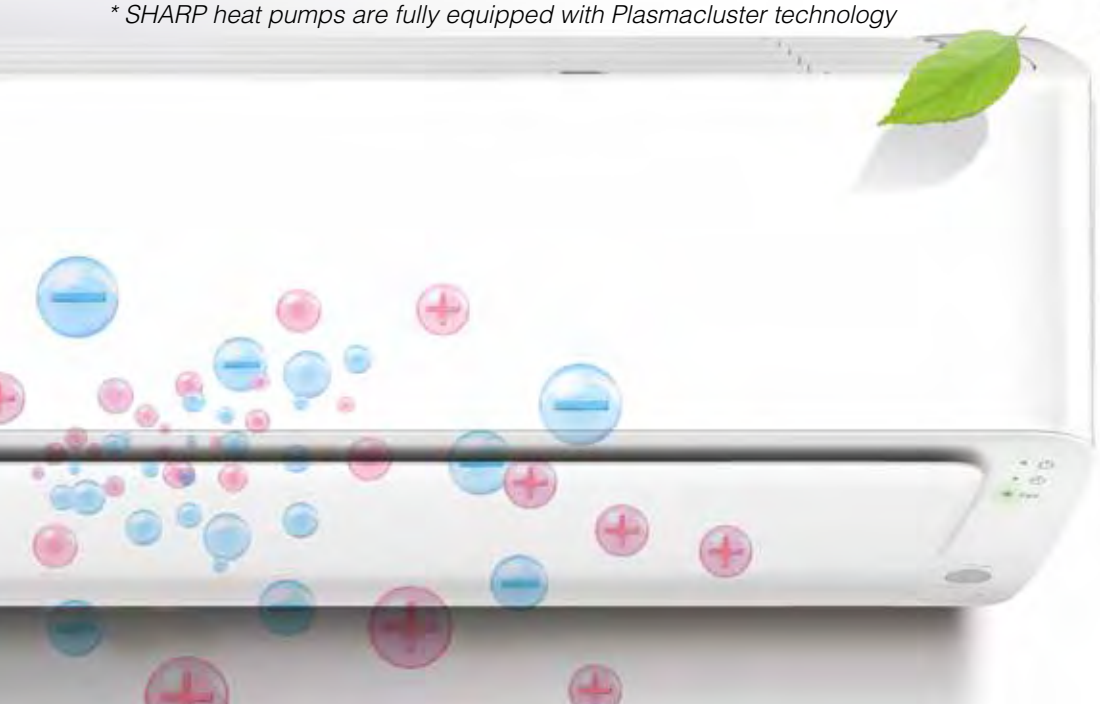


TOBACCO SMELLS

Eliminates clinging tobacco odors

Effect after 30 minutes in a 41 m^3 test space (for air cleaners equipped with Plasmacluster)
The odor removal effect will vary depending on factors such as the type and strength of the odor and the material to which the odor adheres.

** SHARP heat pumps are fully equipped with Plasmacluster technology*



Plasmacluster Technology

SHARP'
neutralizes airborne bacteria and viruses, deactivates and removes airborne mold and other contaminants.



Plasmacluster
Ion Generator

SHARP

WHAT IS PLASMACLUSTER?

Plasmacluster ions are made from the same type of positive and negative ions found in nature.



Positive hydrogen ions and negative oxygen ions exist naturally in the world.

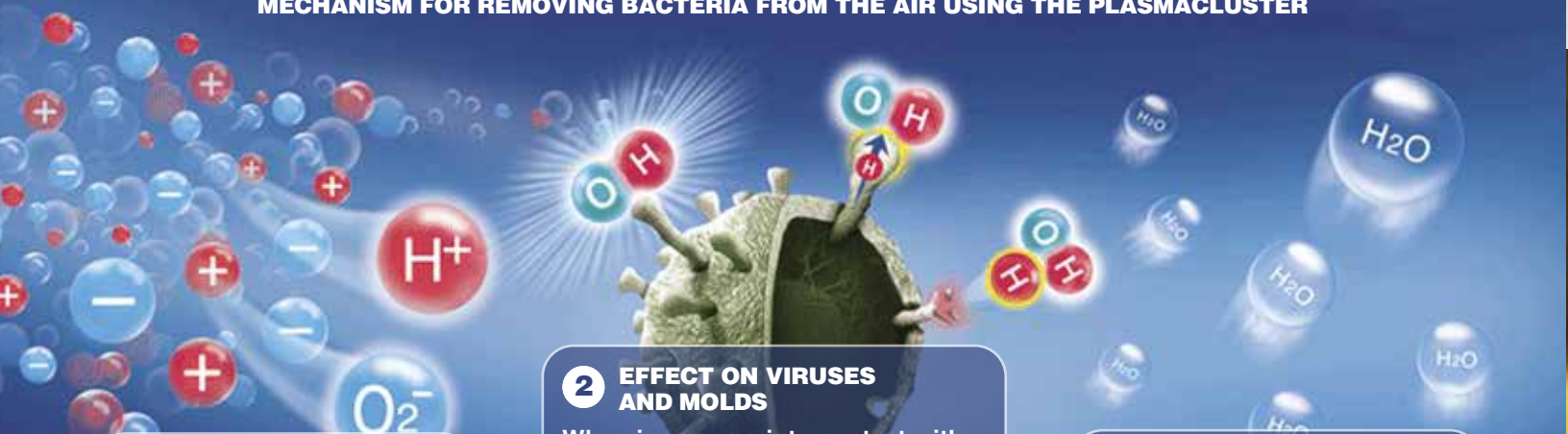
Natural positive and negative ions have always surrounded humans.

Plasmacluster technology generates positive hydrogen ions (H +) and negative oxygen ions (O2 -). In other words, Plasmacluster ions are water and oxygen present in the air, but in a different form. Let's see how Plasmacluster ions are made.



How are Plasmacluster ions generated?

MECHANISM FOR REMOVING BACTERIA FROM THE AIR USING THE PLASMACLUSTER



1 ION EMISSION

Plasma discharges are used to create and release into the air the same positive and negative ions that are produced in nature.

2 EFFECT ON VIRUSES AND MOLDS

When ions come into contact with the surface of a mold, bacteria or virus spore, they turn into radicals with potent oxidizing properties. The radicals instantly steal hydrogen from the surface of the bacteria, breaking down the proteins.

3 TRANSFORMATION OF THE IONS INTO WATER, WHICH RETURNS TO THE AIR

The combination of an OH radical with hydrogen (H) creates water (H20), which returns to the air.



SHARP

TO PURIFY THE AIR

Eliminates airborne mold and suppresses the activity of adhering viruses, bacteria and allergens.



SHARP

TO PURIFY THE AIR

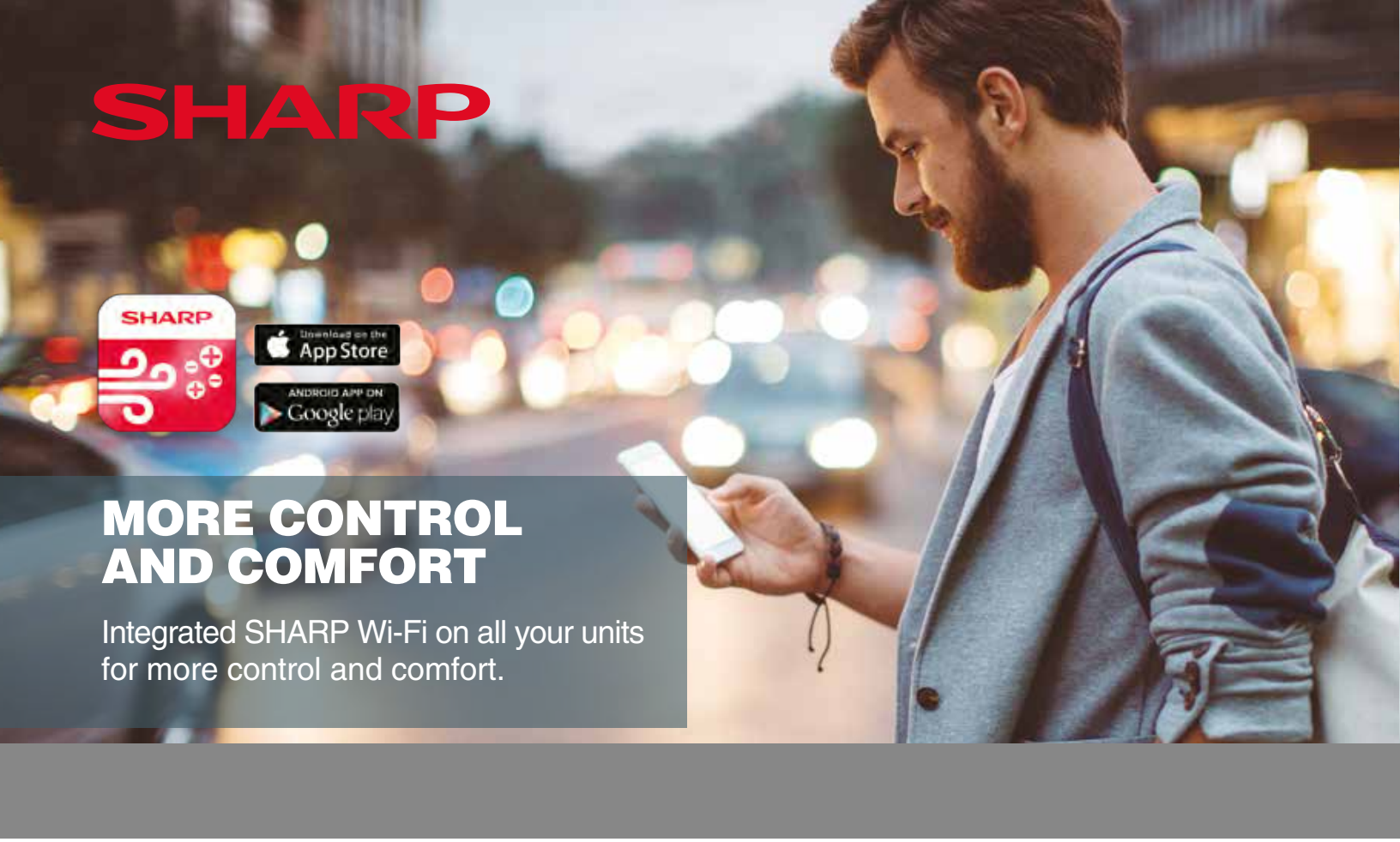
Breaks down and eliminates clinging odors from tobacco smoke, cooking and pet odors.



SHARP

FOR THE FAMILY

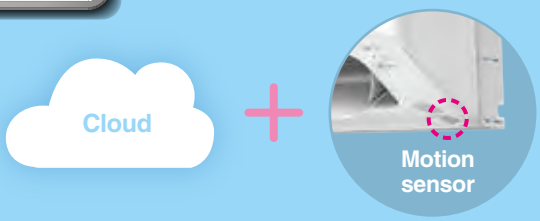
Because the air you breathe is a human necessity for you and yours.



MORE CONTROL AND COMFORT

Integrated SHARP Wi-Fi on all your units for more control and comfort.

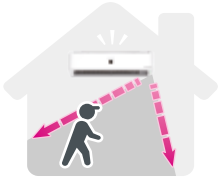
Smarter and more convenient with the new motion sensor *1



The air conditioner will send an alert to your cell phone if there is no response for more than an hour.



Receive a message when your child arrives home.



Room temperature at all times

Not only the temperature and humidity, but also whether anyone is present.*2



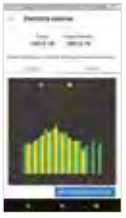
*2 The sensor may not detect correctly due to factors such as the location of furniture in the room.

Check the electrical expenses

Quickly check your daily or monthly electrical expenses compared to last month. You can also consult the operation history to see the energy consumption according to the time of day.



Daily electrical expenses



Monthly electrical expenses



SHARP

PROGRAM YOUR PREFERRED SLEEP TEMPERATURE

The time slot function allows you to control the temperature while you sleep and improve it by making changes.

Simultaneous shutdown of all air conditioners

Up to 10 units

Turn off all heat pumps when you leave the house.



SHARP

Download on the App Store

ANDROID APP ON Google play

GPS interlocking by smartphone

*3 To use the interlock function, you must activate the GPS function of the cell phone.

The app can suggest when you go out or arrive at your house.



When you return home, you can always be informed of the room temperature and turn on the air conditioner.



When you leave your home and your air conditioner is on, you will receive a notification indicating the operating status so that you can adjust or turn off your unit.

SHARP



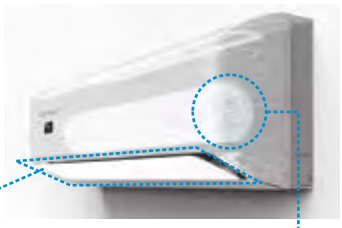
Comfortable Coanda airflow

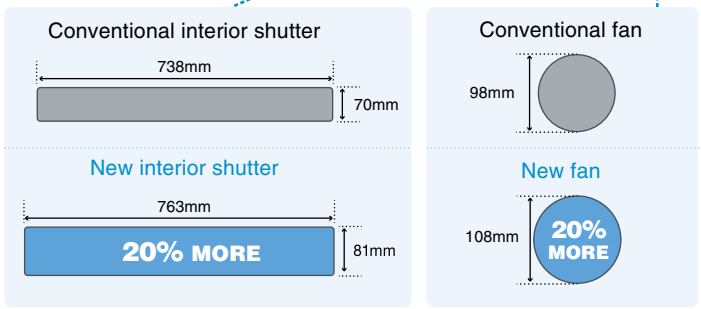
You can redirect the airflow to avoid direct contact with people. This ensures comfortable cooling throughout the room, as the air does not blow directly onto the occupants.



Large fan and wide flap (top/bottom)

Uses a large fan and a wide flap to achieve 50 feet of airflow.



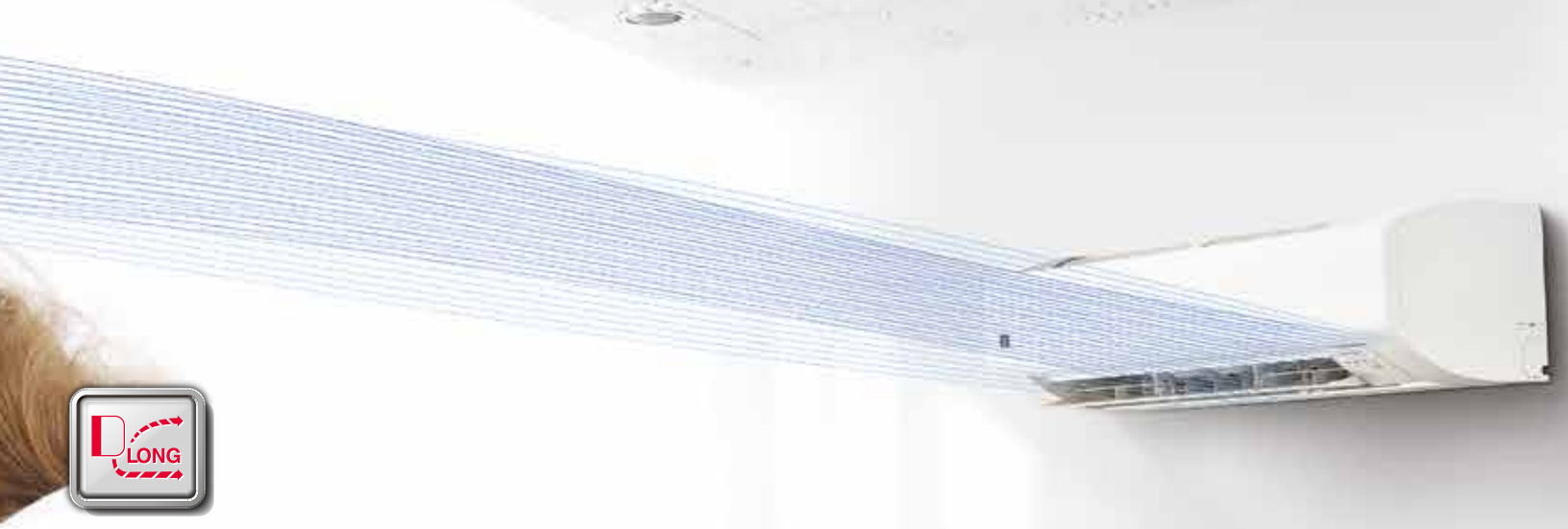


"SPOT AIR" zone-specific comfort



The room is divided into six zones, and you can choose which zone to direct the air using your remote control. Only the selected area is quickly cooled or heated, significantly reducing energy consumption.





COANDA EFFECT UP TO 50 FEET

NEVER HAVE AIR DIRECTLY ON YOU AGAIN

MULTI-PART FUNCTION

UNIFORM AIR DISTRIBUTION IN ALL ROOMS

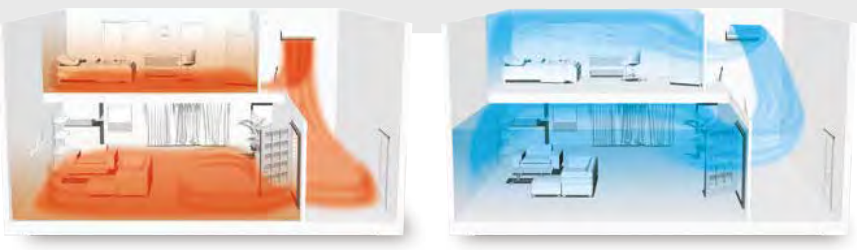
The Coanda effect

For even heat and cool air, SHARP air conditioners and heat pumps let you take advantage of a natural phenomenon called the “Coanda effect”* This effect refers to the tendency of a gas or liquid stream to be attracted to surrounding surfaces. SHARP air conditioners and heat pumps utilize this trend by aiming for airflow on the surface of rooms, along walls or ceilings, to more precisely control and direct airflow.



“MULTI-SPACE” function

The “Multi-Space” function, whether installing the indoor unit to a cathedral ceiling or a stairwell, allows you to heat or quickly cool rooms to the desired temperature. This feature provides continuous ventilation to circulate warm or cool air smoothly to every corner of the home.



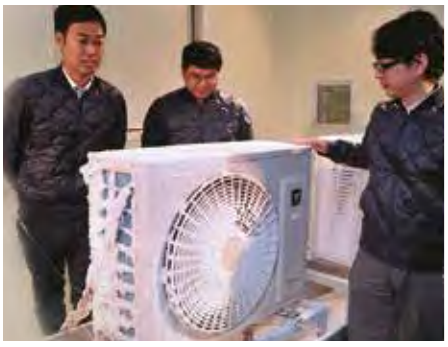
SHARP



"HOT GAS PIPE" system (patented)

The outdoor units are designed to deliver reliable, comfortable heating in temperatures as low as -30°C, outperforming other models on the market in cold-weather operation. **SHARP's HOT GAS PIPE** system helps keep the condensate drain holes free of ice, ensuring proper drainage during defrost cycles without compromising energy efficiency.

Up to -30 °C



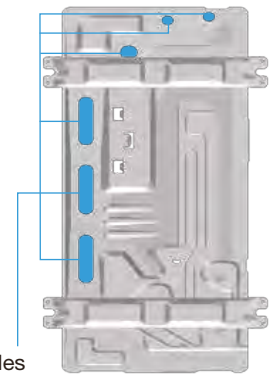
Residual heat moves through the pipe to prevent the outdoor unit from freezing from the bottom.



"HOT GAS PIPE"
Unique to SHARP

Multiple drainage holes

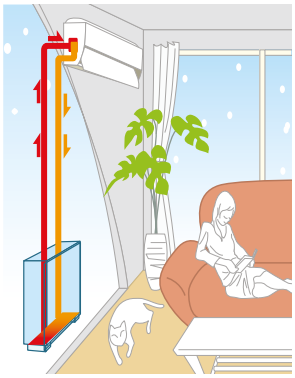
Freezing water in the outdoor unit is often the cause of malfunction in winter. To prevent this from happening, **SHARP** has improved the drainage system by providing the outdoor unit's condensate pan with several drainage holes. Plugs to cover these holes are also included with the unit when used in a warmer climate where water is drained through a drain hose.



Drainage holes

Defrosting adapted to the North American climate

To optimize the defrosting of the outdoor unit, the **"PRE-WARM"** function increases the indoor temperature a few moments before a defrosting. In addition, **SHARP** uses two defrost modes: **"RAPID DEFROST"** or **"DEFROST"**. These types of defrosts are used on **SHARP** units installed in Nordic countries. All of these functions ensure optimal operation of the unit and provide a range of enhanced performance.

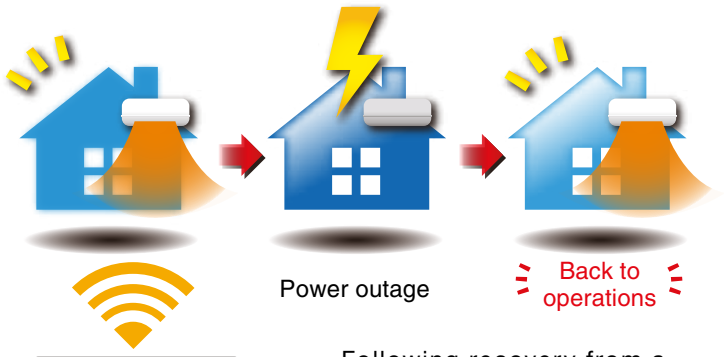


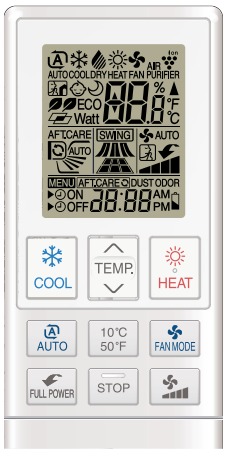
SHARP



Innovative features to make your life easier

"Auto Restart" function





Following recovery from a power failure, the **SHARP** unit will automatically restart with the settings in place before the power loss.

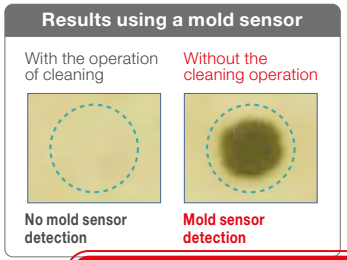
"Auto Restart" function

Self-cleaning function

Plasmacluster ions minimize mold growth inside the air conditioner

The unit's 40-minute recirculation cycle propels Plasmacluster ions into the unit. This prevents and inhibits the growth of odor-causing molds on the air exchanger surfaces.

(Note: Molds already present cannot be removed.)





The interior stays clean by using Plasmacluster ions!

Test Method: Measurements taken in Sharp's laboratories using the AY-P28XC (Japanese Model). Tested at an outdoor/ambient temperature of 27°C and 70% humidity over a one-hour cycle of operation in cooling mode. During a 40-minute internal cleaning cycle and 20 minutes with the unit off. These tests were conducted for 14 days (40 cycles). Visual mold sensor manufactured by the Institute for Environmental Biology.

SHARP

ALWAYS CONCERNED ABOUT THE ENVIRONMENT

SHARP is actively working to protect the environment by reducing greenhouse gases.

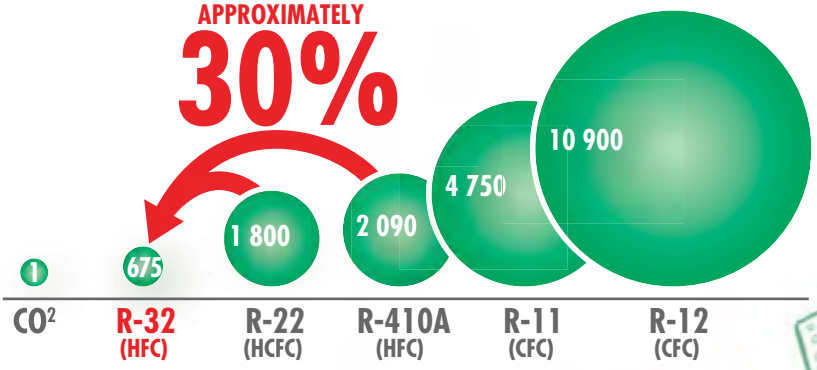
R32 ECO NEW REFRIGERANT

Refrigerant R32 | Environmentally friendly

What is R-32?

APPROXIMATELY **10%** REDUCTION IN POWER CONSUMPTION

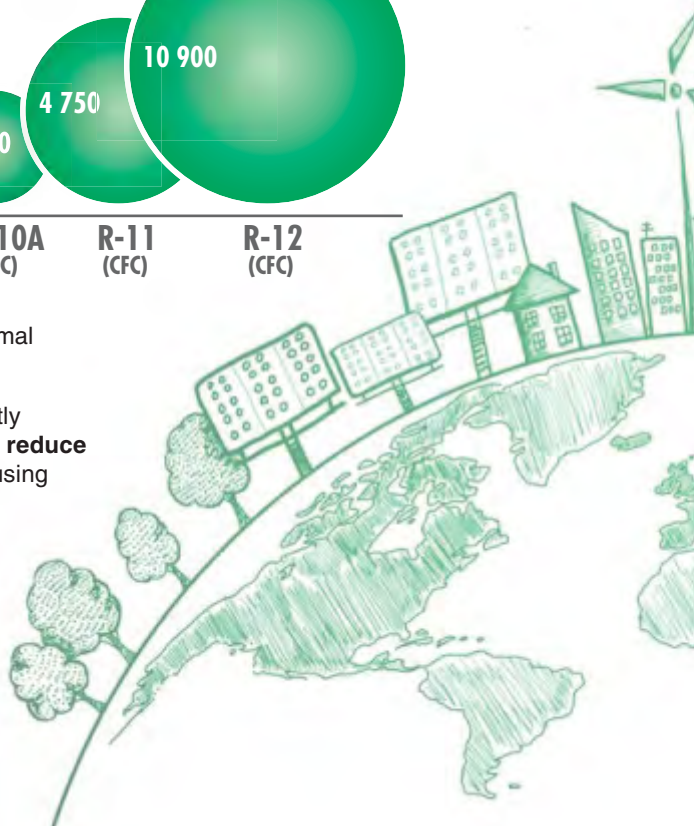
100-YEAR GLOBAL WARMING POTENTIAL WITH DIFFERENT REFRIGERANTS



R-32 is a new-generation refrigerant that transports heat efficiently with minimal environmental impact.

Although there are different refrigerants, **R-32** is the new refrigerant currently attracting the most interest. Because **R-32** transports heat efficiently, it can **reduce electricity consumption by up to about 10% compared to** heat pumps using **R-22** refrigerant. In addition, compared to today's widely used refrigerants, such as **R-22** and **R-410A**, **R-32** has a global warming potential (GWP) that is 1/3 lower and has a low environmental impact.







RESPECTING NATURE AND BEING INSPIRED BY IT, WELL-ESTABLISHED VALUES

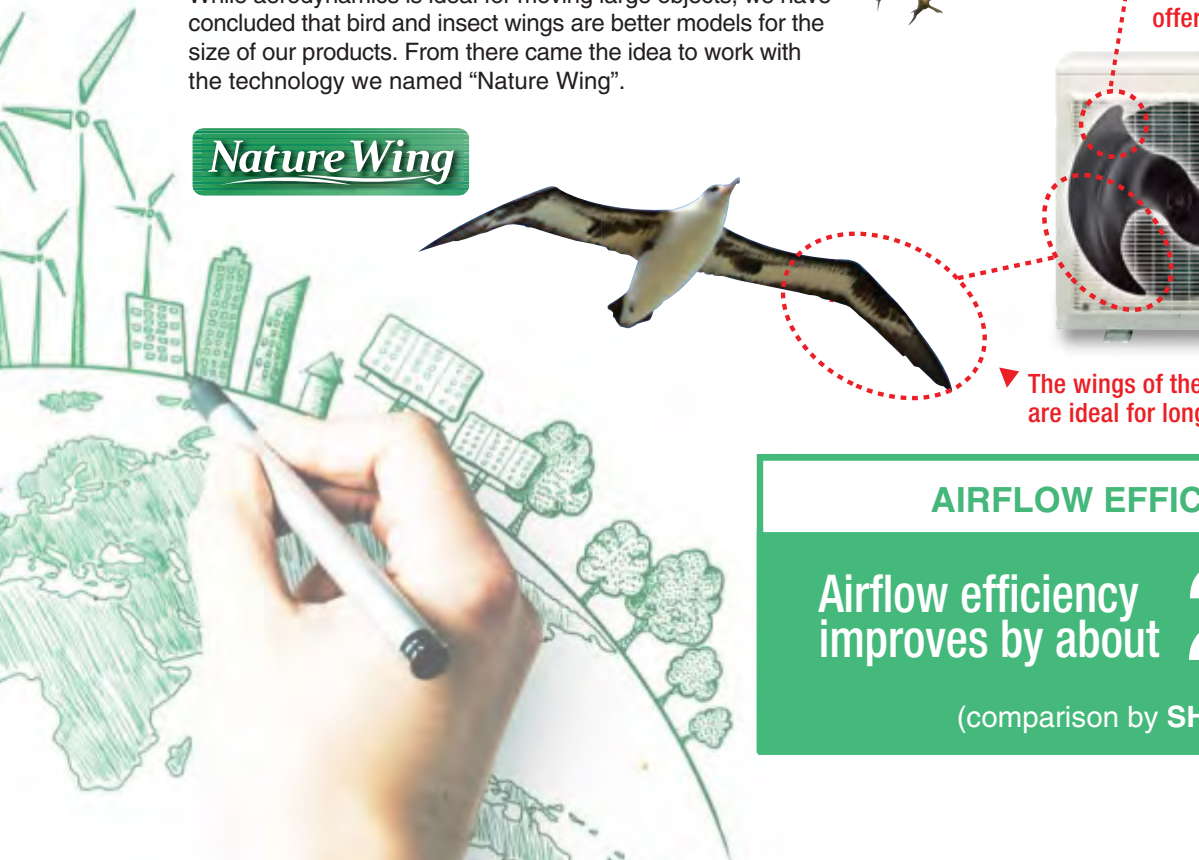
We generally use the concept of “aircraft wings” for better airflow control and aerodynamics to inspire product improvements.

While aerodynamics is ideal for moving large objects, we have concluded that bird and insect wings are better models for the size of our products. That’s where the idea for “Nature Wing” came from.

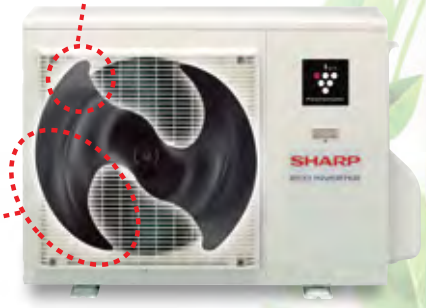
“Nature Wing” technology

We generally use the concept of “aircraft wings” for better airflow control and aerodynamics to inspire product improvements. While aerodynamics is ideal for moving large objects, we have concluded that bird and insect wings are better models for the size of our products. From there came the idea to work with the technology we named “Nature Wing”.

Nature Wing



Golden eagle’s wings offer better draft control



The wings of the albatross are ideal for long flights

AIRFLOW EFFICIENCY

Airflow efficiency improves by about **20%**

(comparison by **SHARP**)



SHARP

FilterSweep

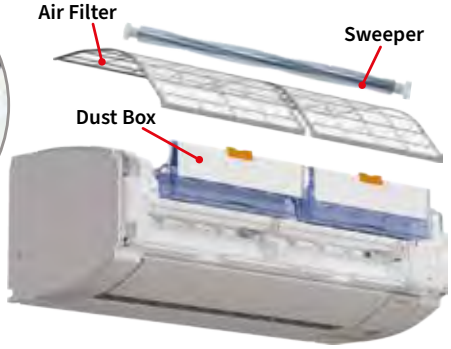
First Mini-Split with **Auto Filter Sweeping System** in North America

DISCOVER FILTERSWEEP

Automatic Filter Maintenance

Mini-split filters generally need to be cleaned every two to three weeks, as accumulated dust can restrict airflow. Filter maintenance has never been easier thanks to the automatic filter-sweeping system, which sweeps dust into the dust collection box every 24 hours of operation. The result: cleaner filters, improved system efficiency, and less maintenance.





Improved Energy Efficiency

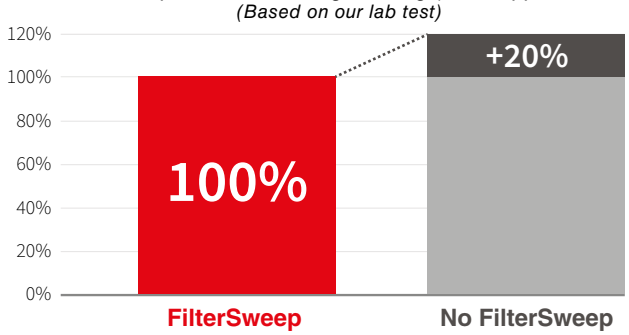
Dust buildup on air filters can restrict airflow, causing the unit to work harder than necessary and consume up to 20% more electricity (based on internal tests). By keeping filters dust-free, the Auto Filter Sweeping System helps reduce unnecessary system load,maintain normal electricity consumption, and support long-lasting performance.



Eliminate the hassle

Mini-split are usually installed near the ceiling, and filter maintenance can be a hassle. FilterSweep stores collected dust in dust box designed to hold up to a year of accumulation, minimizes troublesome maintenance work on a stepladder.

Power Consumption Ratio During Heating (After Approx. 1 Year)
(Based on our lab test)



Lab test with model AY-T40V in a 248.5 ft² room at 2°C: power use was 2,577 Wh with Auto Cleaning and 3,249 Wh without (~2g dust on filter), measured until 23°C was reached. Results may vary by usage and environment.

DWU SERIES
FILTERSWEEP



Model number			AY-XP12DWU AHRI: 218327264 / ENERGY STAR: 4,577,213
	Indoor unit		AE-X12DWU
	Outdoor unit		
Performance	Air conditioning	(Btu/h)	12 000
	Min - Max	(Btu/h)	3 500 - 17 000
	Heating	(Btu/h)	16 000
	Min - Max	(Btu/h)	3 100 - 22 000
	Maximum heating @ -8,3 °C (17 °F)	(Btu/h) (COP)	19 000 (2.0)
	Maximum heating @ -15 °C (5 °F)	(Btu/h) (COP)	15 500 (1.9)
	Maximum heating @ -20 °C (-4 °F)	(Btu/h) (COP)	12 800 (1.66)
	Maximum heating @ -25 °C (-13 °F)	(Btu/h) (COP)	10 300 (1.54)
	Maximum heating @ -30 °C (-22 °F)	(Btu/h) (COP)	8 000 (1.42)
Efficiency	EER [2]		14.0
	SEER [2]		24.0
	HSPF [2] (IV)		11
Power supply		V, Hz, Phase	208-230/60/1
Max. fuse size		(A)	25
Dehumidification		Pt/h	1.9
Sound level (dB) Air conditioning	Indoor unit	(Sh/H/M/B/Sb)	44 / 42 / 34 / 27 / 23
		(External unit)	49
Sound level (dB) Heating	Indoor unit	(Sh/H/M/B/Sb)	44 / 42 / 36 / 29 / 23
		(External unit)	50
Airflow rate (ft^3/min)	Air conditioning	(Sh/H/M/B/Sb)	487 / 438 / 318 / 219 / 184
	Heating	(Sh/H/M/B/Sb)	487 / 438 / 343 / 268 / 194
Direction of the air	Horizontal		Auto
	Vertical		Auto
Operating range of the outdoor temperature	Air conditioning		14 to 115°F (-10 to 46°C)
	Heating		-22 to 75°F (-30 to 24°C)
Pipe diameter	Liq x Gas	(in)	1/4 x 3/8
Refrigerant			R32
Max. hose lenght		{ft (m)}	66 (20)
Max. height difference		{ft (m)}	33 (10)
Dimensions (W. x H. x D.)	Indoor unit	(in)	$31\ ^{13}/_{32}$ x $9\ ^{13}/_{16}$ x $11\ ^{27}/_{32}$
	Outdoor unit	(in)	$33\ ^{15}/_{32}$ x $27\ ^{15}/_{16}$ x 13
Total weight	Indoor unit	{lb (kg)}	24 (11)
	Outdoor unit	{lb (kg)}	95 (43)



Compact Design

At just 32 inches wide and 10 inches high, this mini-split takes up minimal space. Its sleek, compact design blends seamlessly into both small and large rooms without disrupting the overall interior décor.

Easy Maintenance

The filter-sweeping system is designed to simplify maintenance, allowing you to remove the dust collection boxes, brushes, and air filters independently and wash them separately. This simple cleaning process helps keep the unit in optimal condition without the need for special tools or complicated procedures.

SHARP



Airest

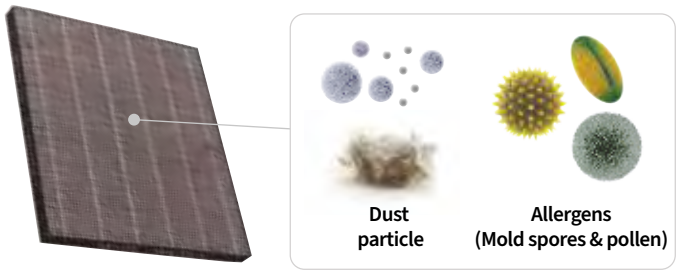
AHR 2026 INNOVATION AWARDS WINNER

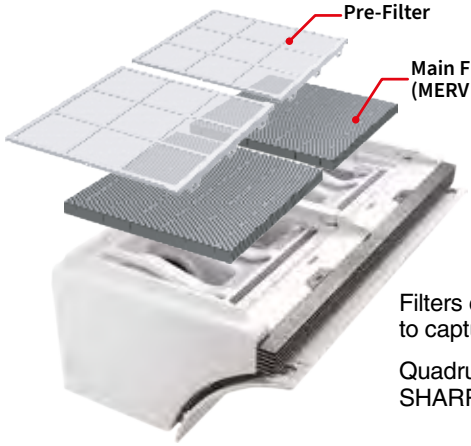
A new standard in air purification: **Certified MERV 14 Filters integrated** into the mini-split system

DISCOVER AIREST

Protection against allergens and dust

The MERV 14 filter captures airborne allergens and fine particles, including pollen, pet dander, mold spores, and smoke. It helps improve indoor air quality, creating a healthier environment with cleaner air.





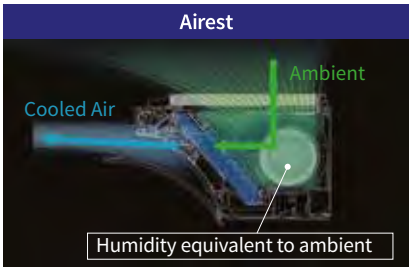
Filters cover the entire air inlet to capture odors and dust.

Quadruple centrifugal fans from SHARP's Air Purifier technology.

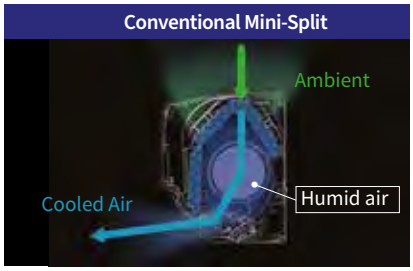
Keeps the inside of the unit dry

Sharp designed the **Airest** with the heat exchanger positioned near the air outlet, allowing room air to circulate inside the unit. This helps reduce humidity and prevent condensation buildup.

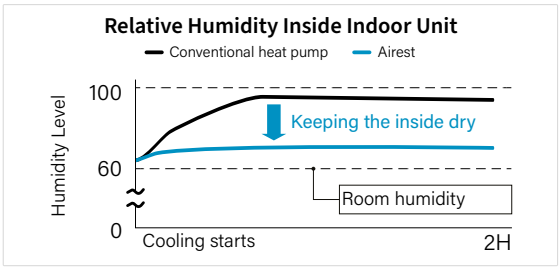
In conventional models, the heat exchanger is located near the air inlet, where cool, humid air can promote moisture buildup and mold growth.



Airest internal view

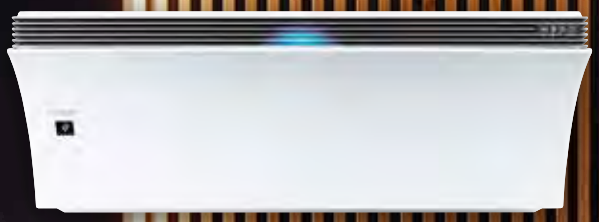


Conventional mini-split internal view



Relative humidity test graph between Airest & Conventional Heat Pump

CPU SERIES AIREST

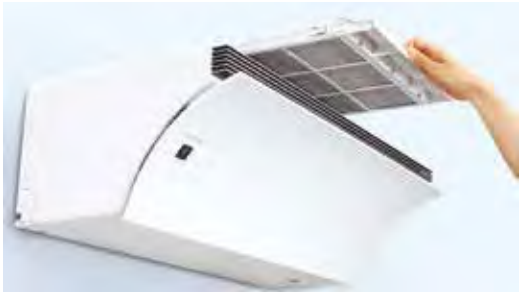


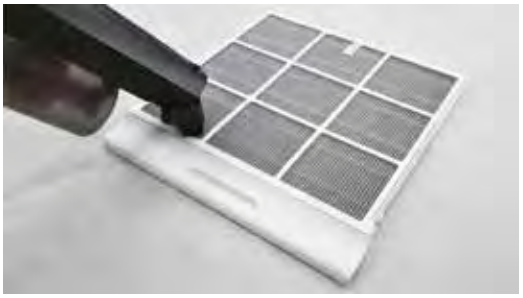
Model number			AY-XP12CPU AHRI: 216624517 / ENERGY STAR: 3,943,397
	Indoor unit		AE-X12DWU
	Outdoor unit		
Performance	Air conditioning	(Btu/h)	12 500
	Min - Max	(Btu/h)	2 800 - 13 600
	Heating	(Btu/h)	14 000
	Min - Max	(Btu/h)	3 200 - 17 000
	Maximum heating @ -8,3 °C (17 °F)	(Btu/h) (COP)	15 000 (2.31)
	Maximum heating @ -15 °C (5 °F)	(Btu/h) (COP)	12 500 (2.1)
	Maximum heating @ -20 °C (-4 °F)	(Btu/h) (COP)	10 800 (2.0)
	Maximum heating @ -25 °C (-13 °F)	(Btu/h) (COP)	9 000 (1.82)
	Maximum heating @ -27 °C (-17 °F)	(Btu/h) (COP)	8 400 (1.77)
Efficiency	EER [2]		12.1
	SEER [2]		21.0
	HSPF [2] (IV)		10.5
Power supply		V, Hz, Phase	208-230/60/1
Max. fuse size		(A)	15
Dehumidification		Pt/h	1.9
Sound level (dB) Air conditioning	Indoor unit	(Sh/H/M/B/Sb)	49 / 48 / 42 / 36 / 25
		(External unit)	49
Sound level (dB) Heating	Indoor unit	(Sh/H/M/B/Sb)	49 / 48 / 42 / 37 / 34
		(External unit)	50
Airflow rate (ft^3/min)	Air conditioning	(Sh/H/M/B/Sb)	406 / 378 / 290 / 219 / 124
	Heating	(Sh/H/M/B/Sb)	406 / 378 / 290 / 233 / 208
Direction of the air	Horizontal		Auto
	Vertical		Auto
Operating range of the outdoor temperature	Air conditioning		14 to 115°F (-10 to 46°C)
	Heating		-17 to 75°F (-27 to 24°C)
Pipe diameter	Liq x Gas	(in)	1/4 x 3/8
Refrigerant			R32
Max. hose lenght		{ft (m)}	66 (20)
Max. height difference		{ft (m)}	33 (10)
Dimensions (W. x H. x D.)	Indoor unit	(in)	31 $^{27}/_{64}$ x 10 $^{15}/_{16}$ x 17 $^{19}/_{32}$
	Outdoor unit	(in)	30 $^{23}/_{32}$ x 21 $^{1}/_{4}$ x 10 $^{19}/_{32}$
Total weight	Indoor unit	{ft (kg)}	37 (17)
	Outdoor unit	{ft (kg)}	66 (30))

Easy Maintenance

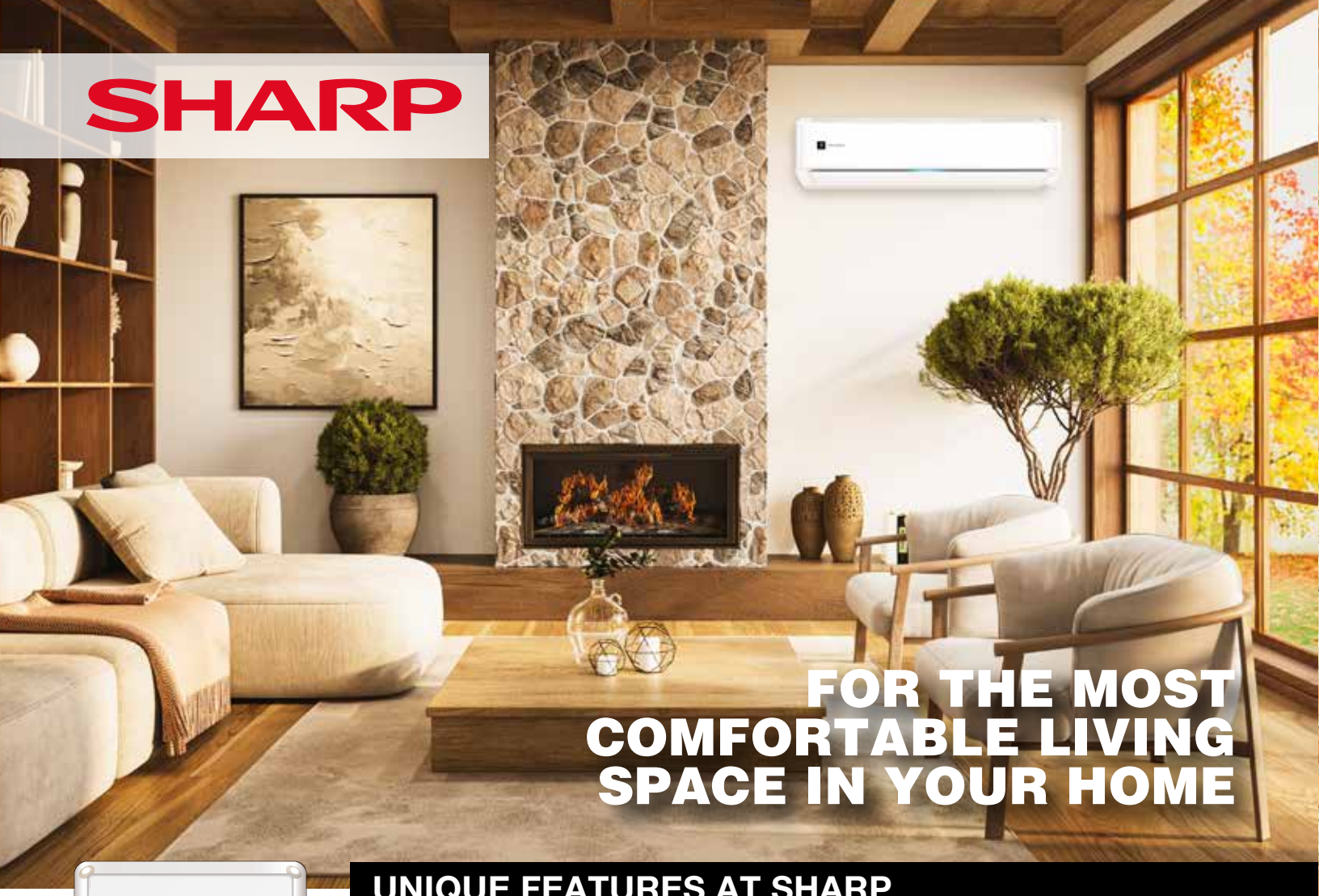
Airest makes maintenance simple. Simply slide out the filter brackets and clean the filters with a handheld vacuum. The process takes just a few minutes and is recommended every six months.

When connected to your home Wi-Fi, the SHARP AIR App will also remind you when it's time to clean or replace the filters, so you never forget.





SHARP



FOR THE MOST COMFORTABLE LIVING SPACE IN YOUR HOME



UNIQUE FEATURES AT SHARP

Coanda airflow system with long panel

Provides a longer airflow that can send Plasmacluster ions and cold or warm air further into the room. (See page 10)

Hot gas duct system (patented)

The heat generated by the heating operation is reused to prevent the outdoor unit from freezing. (See page 12)

“Multi-Space” function (patented)

This feature provides continuous ventilation to gently circulate warm or cool air to every corner of the home. (See page 11)

Plasmacluster cleaning function (patented)

This feature serves to reduce the growth of mold spores by drying the interior of the disinfectant with Plasmacluster ions. (See page 13)

Plasmacluster Ion

SHARP’s unique air purification technology removes mold and viruses from the air. (See pages 4 à 7)

R-32 gaz

SHARP continues to lead the industry with the transition to the next generation of refrigerants that have a lower global warming potential than R-410A: R-32. (See page 14)

CHU SERIES
CHU-B SERIES



Model number			AY-XP12CHU AHRI: 217512736 / ENERGY STAR: 4,439,337 AY-XP12CHU-B AHRI: 217512733 / ENERGY STAR: 4,439,335	AY-XP18CHU AHRI: 217508925 / ENERGY STAR: 4,437,577
	Indoor unit		AE-X12CHU	AE-X18CHU
	Outdoor unit			
Performance	Air conditioning	(Btu/h)	12 000	18 000
	Min - Max	(Btu/h)	3 500 - 14 000	6 000 - 21 600
	Heating	(Btu/h)	16 000	21 600
	Min - Max	(Btu/h)	3 100 - 22 850	5 500 - 30 000
	Max. heating @ -8,3 °C (17 °F)	(Btu/h) (COP)	18 900 (2.22)	22 600 (2.28)
	Max. heating @ -15 °C (5 °F)	(Btu/h) (COP)	16 000 (2.1)	19 500 (2.2)
	Max. heating @ -20 °C (-4 °F)	(Btu/h) (COP)	13 800 (2.01)	17 100 (2.13)
	Max. heating @ -25 °C (-13 °F)	(Btu/h) (COP)	11 600 (1.85)	14 800 (2.01)
	Max. heating @ -30 °C (-22 °F)	(Btu/h) (COP)	9 700 (1.8)	11 800 (1.8)
Efficiency	EER [2]		16.0	13.0
	SEER [2]		25.0	25.0
	HSPF [2] (IV)		11	11.5
Power supply		V, Hz, Phase	208-230/60/1	208-230/60/1
Max. fuse size		(A)	20	25
Dehumidification		Pt/h	1.9	5.9
Sound level (dB) Air conditioning	Indoor unit	(Sh/H/M/B/Sb)	43 / 40 / 36 / 28 / 24	45 / 43 / 38 / 31 / 28
		Outdoor unit	49	52
Sound level (dB) Heating	Indoor unit	(Sh/H/M/B/Sb)	44 / 40 / 35 / 29 / 22	49 / 47 / 41 / 31 / 25
		Outdoor unit	50	52
Airflow rate (ft³/min)	Air conditioning	(Sh/H/M/B/Sb)	597 / 519 / 403 / 290 / 212	636 / 597 / 480 / 328 / 251
	Heating	(Sh/H/M/B/Sb)	636 / 558 / 466 / 374 / 212	752 / 713 / 558 / 403 / 290
Direction of the air	Horizontal		Auto	Auto
	Vertical		Auto	Auto
Operating range of the outdoor temperature	Air conditioning		14 to 115°F (-10 to 46°C)	14 to 115°F (-10 to 46°C)
	Heating		-22 to 75°F (-30 to 24°C)	-22 to 75°F (-30 to 24°C)
Pipe diameter	Liq x Gas	(in)	1/4 x 3/8	1/4 x 3/8
Refrigerant			R32	R32
Max. hose lenght		{ft (m)}	66 (20 (pre-charged: 25'))	66 (20) (pre-charged: 25')
Max. height difference		{ft (m)}	33 (10)	33 (10)
Dimensions (W. x H. x D.)	Indoor unit	(in)	41 $^{27}/_{64}$ x 12 $^{7}/_{16}$ x 9 $^{51}/_{64}$	41 $^{27}/_{64}$ x 12 $^{7}/_{16}$ x 9 $^{51}/_{64}$
	Outdoor unit	(in)	30 $^{23}/_{32}$ x 21 $^{1}/_{4}$ x 10 $^{19}/_{32}$	33 $^{15}/_{32}$ x 27 $^{15}/_{16}$ x 13
Total weight	Indoor unit	{lb (kg)}	31 (14)	31 (14)
	Outdoor unit	{lb (kg)}	67 (30)	95 (43)

In November 2016, **SHARP** introduced its slogan, **"Be Original,"** which became the company's official motto. It also embodies **SHARP's** promise to customers around the world: to remain a brand that creates value, embraces originality, and always stands out as unique.

SHARP has given the word "original" two distinct meanings.

SHARP's founder, Tokuji Hayakawa, instilled a spirit of **sincerity and creativity** that continues to guide the company today. This spirit remains unchanged and serves as the original foundation of everything **SHARP** does.

SHARP is a company that puts people first and continually creates value by offering a wide range of products and services that are uniquely **SHARP**. It constantly develops **"original products that reflect your individuality"** products that help you and those around you turn your wishes and dreams into reality.



SHARP

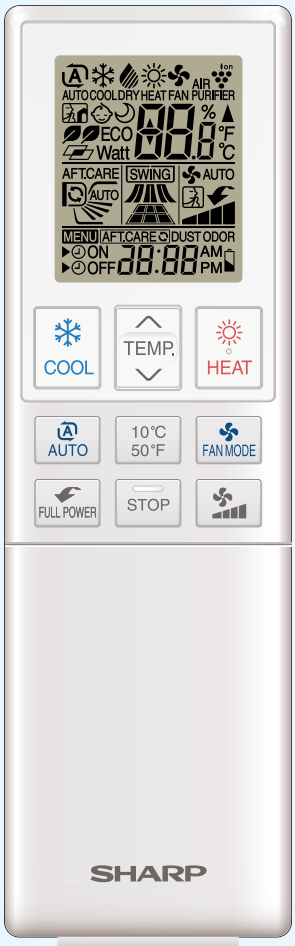
CU SERIES



Model number			AY-XPC12CU AHRI: 217512740 / ENERGY STAR: 4,439,339
	Indoor unit		AE-X12CU
	Outdoor unit		
Performance	Air conditioning	(Btu/h)	12 000
	Min - Max	(Btu/h)	2 800 - 13 600
	Heating	(Btu/h)	14 000
	Min - Max	(Btu/h)	3 200 - 19 000
	Maximum heating @ -8,3 °C (17 °F)	(Btu/h) (COP)	15 000 (2.44)
	Maximum heating @ -15 °C (5 °F)	(Btu/h) (COP)	12 700 (2.1)
	Maximum heating @ -20 °C (-4 °F)	(Btu/h) (COP)	10 100 (1.98)
	Maximum heating @ -25 °C (-13 °F)	(Btu/h) (COP)	8 200 (1.82)
	Maximum heating @ -30 °C (-22 °F)	(Btu/h) (COP)	8 000 (1.77) @ -27 °C (-17 °F)
Efficiency	EER [2]		12.5
	SEER [2]		22
	HSPF [2] (IV)		11
Power supply		V, Hz, Phase	208-230/60/1
Max. fuse size		(A)	15
Dehumidification		Pt/h	3.2
Sound level (dB) Air conditioning	Indoor unit	(Sh/H/M/B/Sb)	42 / 39 / 34 / 27 / 23
		(Unité ext.)	49
Sound level (dB) Heating	Indoor unit	(Sh/H/M/B/Sb)	43 / 40 / 35 / 28 / 23
		(Unité ext.)	50
Airflow rate (ft^3/min)	Air conditioning	(Sh/H/M/B/Sb)	438 / 385 / 307 / 219 / 145
	Heating	(Sh/H/M/B/Sb)	438 / 385 / 318 / 254 / 145
Direction of the air	Horizontal		Manual
	Vertical		Auto
Operating range of the outdoor temperature	Air conditioning		14 to 115°F (-10 to 46°C)
	Heating		-17 to 75°F (-27 to 24°C)
Pipe diameter	Liq x Gas	(in)	1/4 x 3/8
Refrigerant			R32
Max. hose length		{ft (m)}	66 (20)
Max. height difference		{ft (m)}	33 (10)
Dimensions (W. x H. x D.)	Indoor unit	(in)	$34\ ^{39}/_{64}$ x $11\ ^{3}/_{8}$ x $9\ ^{1}/_{64}$
	Outdoor unit	(in)	$30\ ^{23}/_{32}$ x $21\ ^{1}/_{4}$ x $10\ ^{19}/_{32}$
Total weight	Indoor unit	{lb (kg)}	22 (1220)
	Outdoor unit	{lb (kg)}	67 (30)



AY-XP15CU AHRI: 217512734 / ENERGY STAR: 4,439,336 AY-XP15CU-B AHRI: 217508926 / ENERGY STAR: 4,437,576	AY-XPC18CU AHRI: 217508915 / ENERGY STAR: 4,510,266 AY-XPC18CU-B AHRI: 217508914 / ENERGY STAR: 4,510,267	AY-XPC24CU AHRI: 217508895 / ENERGY STAR: 4,510,268
AE-X15CU	**AE-X18CU**	**AE-X24CU**
15 000	18 000	22 000
5 000 - 17 000	6 000 - 21 600	6 000 - 24 000
18 000	21 600	24 000
4 500 - 21 800	5 500 - 27 000	5 500 - 27 100
18 100 (2.21)	22 400 (2.34)	22 400 (2.34)
15 300 (2.1)	19 000 (2.2)	19 000 (2.2)
13 200 (2.02)	15 000 (2.12)	16 400 (2.08)
11 100 (1.88)	12 000 (1.95)	13 900 (1.91)
8 900 (1.7)	9 200 (1.72)	10 500 (1.72)
13.4	13	10
24	24	22
11	11	11
208-230/60/1	208-230/60/1	208-230/60/1
20	25	25
3.2	5.1	6.8
46 / 42 / 38 / 30 / 26	45 / 43 / 40 / 31 / 28	47 / 45 / 40 / 33 / 30
49	52	53
46 / 42 / 36 / 30 / 23	49 / 47 / 41 / 31 / 25	49 / 47 / 41 / 31 / 25
50	52	54
636 / 558 / 441 / 328 / 251	636 / 597 / 480 / 328 / 251	674 / 636 / 519 / 367 / 290
674 / 597 / 505 / 413 / 251	752 / 713 / 558 / 403 / 290	752 / 713 / 558 / 403 / 290
Manual	Manual	Manual
Auto	Auto	Auto
14 to 115°F (-10 to 46°C)	14 to 115°F (-10 to 46°C)	14 to 115°F (-10 to 46°C)
-22 to 75°F (-30 to 24°C)	-22 to 75°F (-30 to 24°C)	-22 to 75°F (-30 to 24°C)
1/4 x 3/8	1/4 x 3/8	1/4 x 3/8
R32	R32	R32
66 (20)	66 (20)	66 (20)
33 (10)	33 (10)	33 (10)
41 $^{27}/_{64}$ x 12 $^{7}/_{16}$ x 9 $^{51}/_{64}$	41 $^{27}/_{64}$ x 12 $^{7}/_{16}$ x 9 $^{51}/_{64}$	41 $^{27}/_{64}$ x 12 $^{7}/_{16}$ x 9 $^{51}/_{64}$
30 $^{23}/_{32}$ x 21 $^{1}/_{4}$ x 10 $^{19}/_{32}$	33 $^{15}/_{32}$ x 27 $^{15}/_{16}$ x 13	33 $^{15}/_{32}$ x 27 $^{15}/_{16}$ x 13
31 (14)	31 (14)	31 (14)
67 (30)	95 (43)	95 (43)



THE ADVANTAGES OF SHARP'S MULTIZONE HEAT PUMPS

Sharp multizone wall-mounted heat pumps are incorporated with the highest precision Japanese technological precision with an elegant design that will enhance any room in the house. Unique airflow control sends hot or cold air to any room you want for quick and easy comfort. A variety of finely controlled functions to keep the room at the comfort temperature you want.

This heat pump's unique technology goes far beyond simply filling the room with hot or cold air. It gently purifies and deeply cleans the air quality from corner to corner.

Specifications and operational settings have also been optimized for North American household conditions.



Plasmacluster technology, unique to Sharp heat pumps, neutralizes bacteria, airborne viruses, mold and other airborne contaminants.

KEY BENEFITS OF PLASMACLUSTER:

– Suppresses all airborne virus activity
– Suppresses the activity of airborne micro-organisms
– Acts on both airborne and adherent molds
– Neutralizes and eliminates airborne allergens such as dust mite droppings and house dust mites
– Neutralizes and eliminates adherent odors (such as tobacco smoke)
– Eliminates static electricity that attracts airborne particles



SHARP

Sharp's exclusive, patented Plasmacluster ion technology removes microscopic pollutants that conventional filters can't, by replicating nature's own purification process. These ions purify the air without the use of chemicals or artificial fragrances.



AIR CONDITIONING & HEATING IN SEVERAL ROOMS AT THE SAME TIME

SHARP's Multizone system may be the best solution if you're looking for a balance between available space and financial resources. This innovative concept allows you to combine several indoor units (up to 3) according to the layout of the rooms in your home. You can even ask about our Double-Zone and Triple-Zone systems, virtually all of which are Energy Star and AHRI approved.

HELPS TO REDUCE ENERGY CONSUMPTION

SHARP inverter wall-mounted heat pumps automatically switch to “energy-saving” mode as soon as the set temperature is reached. Compared with non-inverter models, SHARP's inverter air conditioners consume less energy and perform more efficiently by using a high-power DC motor for the compressor and outdoor fan, and a pulse-type linear expansion valve.

TEMPERATURE IS REACHED IN TWO-THIRDS OF THE TIME

Although heat pumps with “INVERTER” technology operate in “full power” mode, their energy consumption is considerably reduced when used in “energy-saving” mode. This is made possible by the inverter circuit, which modifies and maintains room temperature by alternating the compressor between “HIGH” and “LOW” operating modes, instead of switching it on and off completely, as do models not using an inverter. The inverter model keeps the compressor running and only reduces the air output once the set temperature has been reached, providing an even, comfortable controlled temperature.



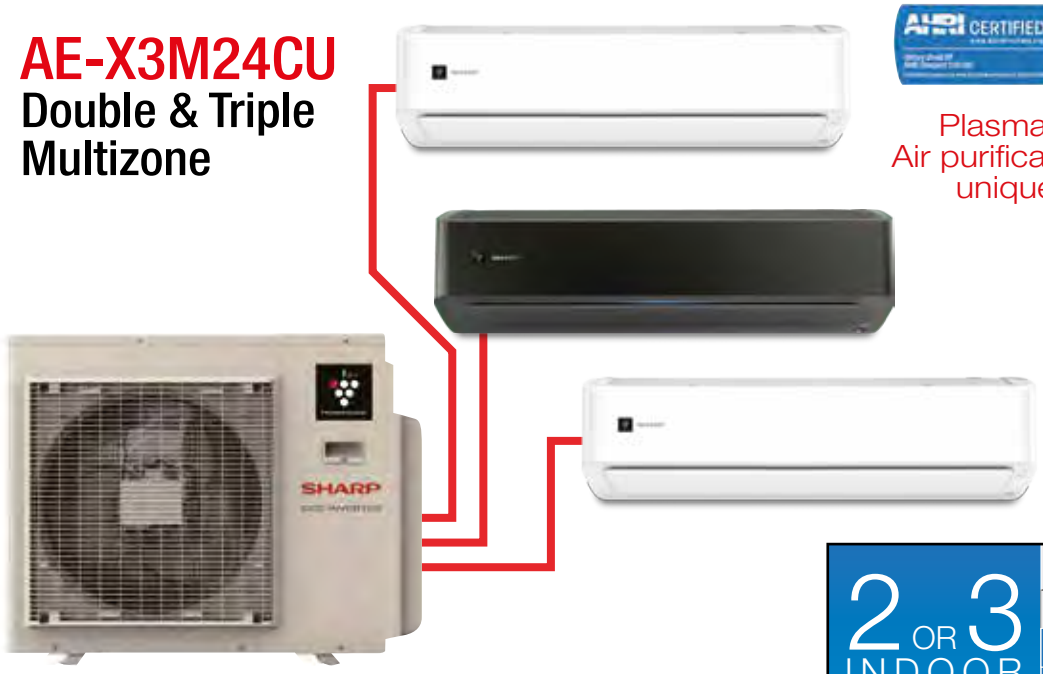


CU SERIES

SHARP

MODELS			AY-XPC09CU	AY-XPC12CU	AY-XPC18CU / AY-XPC18CU-B
Air conditioning Capacity		Btu/h	8 500	12 000	18 000
Heating Capacity		Btu/h	10 000	14 000	19 500
Airflow rate	Heating	ft^3/min	145 / 413	145 / 438	290 / 752
Sound level	Heating	dB(A)	22/42	23/43	28 / 45
Dimension	Height	in	11 3/8	11 3/8	12 7/16
	Length	in	34 39/64	34 39/64	41 27/64
	Depth	in	9 1/64	9 1/64	9 51/64

AE-X3M24CU
Double & Triple Multizone



Plasmacluster ions
Air purification system
unique to SHARP

LONG

R32 ECO

AE-X3M24CU

2 OR 3 INDOOR UNITS
AE-X3M24BU

*Indoor unit combination	
DOUBLE	TRIPLE
9 / 9	9 / 9 / 9
9 / 12	9 / 9 /12
9 / 18	9 / 12 /12
12 / 12	12 / 12 / 12
12 / 18	-
18 / 18	-



MULTIZONE

SHARP

Model Number			AE-X3M24CU (AHRI: 217512785 / ENERGY STAR: 4,439,340)
	Outdoor unit		
Performance	Air conditioning	(Btu/h)	24 000
	Min - Max	(Btu/h)	5 500 - 27 000
	Heating	(Btu/h)	26 000
	Min - Max	(Btu/h)	8 800 - 30 000
	Maximum heating @ -8,3 °C (17 °F)	(Btu/h) (COP)	25 000 (2.53)
	Maximum heating @ -15 °C (5 °F)	(Btu/h) (COP)	21 200 (2.3)
	Maximum heating @ -20 °C (-4 °F)	(Btu/h) (COP)	18 600 (2.2)
	Maximum heating @ -25 °C (-13 °F)	(Btu/h) (COP)	15 700 (1.93)
	Maximum heating @ -30 °C (-22 °F)	(Btu/h) (COP)	13 000 (1.72)
Efficiency	EER [2]		14
	SEER [2]		24
	HSPF [2] (IV)		11.5
Power supply		V, Hz, Phase	208-230/60/1
Maximum Fuse Size		(A)	25
Sound level (dB) Air conditioning			52
Sound level (dB) Heating			53
Operating range of the outdoor temperature	Air conditioning		14 to 115°F (-10 to 46°C)
	Heating		-22 to 75°F (-30 to 24°C)
Pipe Diameter	Liq x Gas	(in)	A, B, C: 1/4 x 3/8
Refrigerant			R32
Max. hose length		{ft (m)}	230 (70)
Max. height difference		{ft (m)}	33 (10)
Dimensions (W x H x D)		(in)	$33\ ^{15}/_{32}$ x $27\ ^{15}/_{16}$ x 13
Total weight		{lb (kg)}	115 (52)

SHARP

SHARP – 10-YEAR WARRANTY



SHARP heat pumps come with a 10-year warranty on parts and the compressor, provided by SHARP, as well as a 10-year warranty on labor, provided by RBL A/C and PRIME.

The terms of labor coverage, particularly regarding service calls and repair time, may vary depending on the type of dealer. Contact your SHARP dealer for details on your coverage.

This 10-year warranty reflects our confidence in the quality, reliability, and durability of SHARP heat pumps.

This protection exceeds the 6-year statutory warranty period for proper operation applicable to heat pumps in Quebec under Act 29. Subject to the terms, limitations, and exclusions of the applicable warranties. These warranties are in addition to statutory warranties and do not limit consumer rights.

CERTAIN CONDITIONS AND EXCLUSIONS APPLY

All exclusions set forth in the manufacturer's warranty also apply to the extended warranty. Normal maintenance costs are not covered: tune-ups, maintenance-related parts, adjustments, filters, installation, commissioning, etc. Failures caused by a lack of maintenance are excluded.

The hourly labor rate specified in the contract remains the same for repairs performed during overtime, on holidays, or in emergency situations. Surcharges are not covered.

Repairs resulting from environmental conditions or natural disasters are excluded: floods, storms, lightning, earthquakes, etc. Travel expenses are not covered by these extended service plans.

NOTE: These extended warranty plans are not maintenance contracts. They cover only eligible mechanical failures. Adjustments and resets are therefore not covered.

These terms apply to the extended warranty and do not limit the consumer's rights under statutory warranties.

RBL A/C INC. EXCLUSIVE DISTRIBUTOR OF SHARP PRODUCTS

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RETAILER

SHARP CORPORATION **OSAKA, JAPON**