



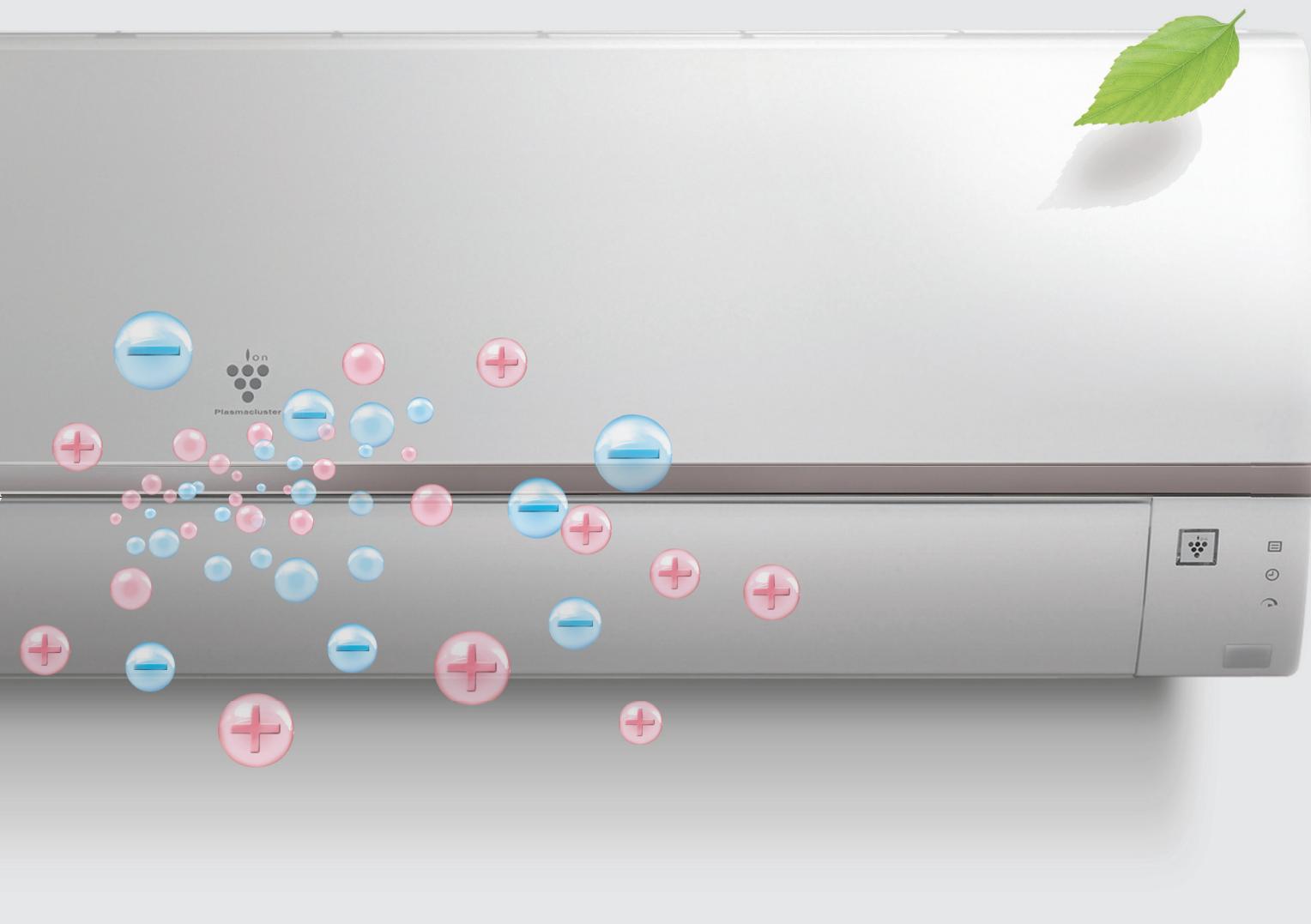
FLEXIBLE
AIR CONDITIONING
UNITS



Sharp understand the requirement for simple, flexible air conditioning systems
/ This is Why we offer flexible type air conditioning systems, for your ultimate well being.

Plasmacluster technology

EXPANDING THE BOUNDARIES OF TECHNOLOGY.
INSPIRED BY THE BEAUTY AND EFFICIENCY OF NATURE.



While pushing the boundaries of technology, Sharp is striving to design a comfortable future as well as a more pleasant environment. **/This is Why** we give a new meaning to the term «breathing room».

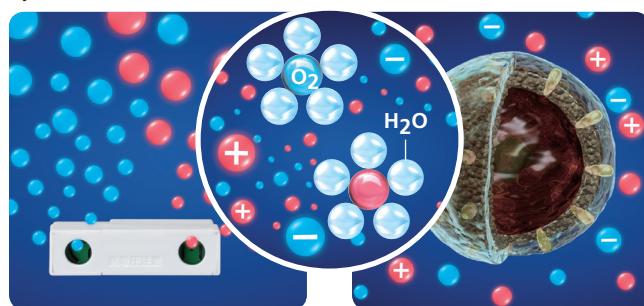


Plasma discharge generates and releases the same positive and negative ions that occur in nature. Sharp's unique Plasmacluster bacteria-removing technology suppresses airborne viruses, and breaks down and removes airborne mold and other contaminants. Incorporated not only in a variety of Sharp's own products, the Plasmacluster Ion technology has also been adopted by many other industries in a variety of products, from automobiles to elevators and toilets.



Plasmacluster Mechanism to Remove Microbes

The ions are long-lasting* because they are surrounded by water molecules.



1 Ions are released

Plasmacluster ions, the same positive and negative ions found in nature, are generated by plasma discharge and released into the air.

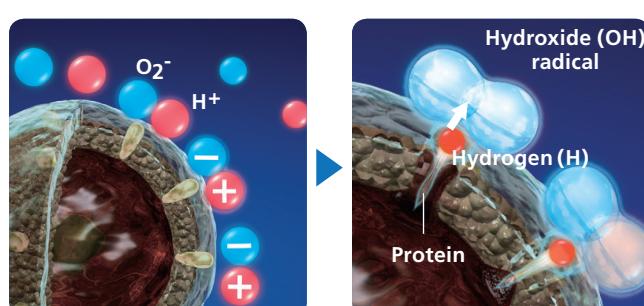
* Verified in Sharp test comparisons of ions not surrounded by water molecules.

2 The ions act on airborne microbes.

The ions form hydroxide (OH) radicals that are highly oxidizing only when they adhere to the surfaces of mold and viruses. They instantly remove the hydrogen from the surface proteins, breaking them down.

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

The hydroxide (OH) radicals combine with hydrogen (H) to form water (H₂O), which returns to the air.

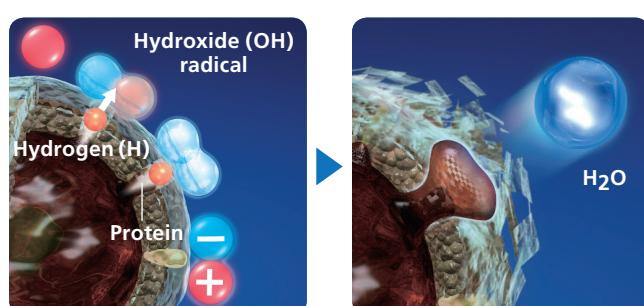


Air purifiers and ion generators with Plasmacluster technology can prevent the action of airborne viruses, as well as reduce the effects of suspended allergens generated by dust mite feces and dead mites by breaking them down, but Plasmacluster cannot create a completely sterile environment, or ensure prevention of infection.

The actual number of ions and effectiveness of microbe removing*1 and purifying*2 depend on the room conditions and the operation methods, including room size or shape, whether air conditioning or ventilation is used, product placement, direction of ion discharge, and operation mode.

*1 Airborne viruses are suspended in a 1m³ box, and the percentages of the viruses removed after 10 minutes are measured.
Suspended microbes subjected to Plasmacluster air purification are measured after 38 minutes in a testing room of about 40 m³.
Test results may differ from results in actual room conditions.

*2 The effectiveness depends on the surrounding conditions (e.g., temperature, humidity and airflow), usage time and method.



Cleanliness.

A dedication to clean air with Plasmacluster Ion technology.



PLASMACLUSTER IONS SPREAD THROUGHOUT THE WHOLE ROOM, CLEANING THE AIR.



Plasmacluster ions clean the air inside rooms, as well as break down and remove unwanted odors.

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



Airbourne viruses



Airbourne mold



Airbourne allergens



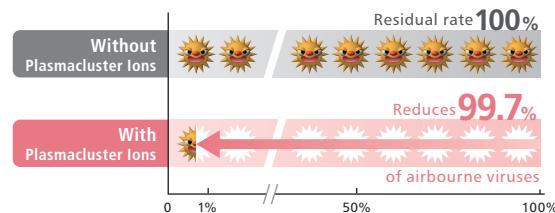
Adhering odors



The air inside a typical home contains a lot of mold and viruses

Effective against Airbourne Viruses

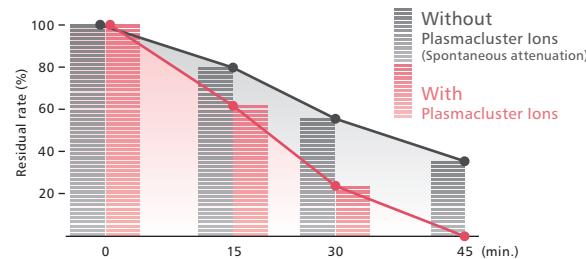
Effects on Airborne Viruses (Actual reduction rate may differ according to room conditions and the model in use)



- Test method: A Plasmacluster Ion generator is placed in a 1 m³ box. Airborne viruses are suspended in the air inside the box followed by the release of Plasmacluster Ions.
- Reduction method: Generate Plasmacluster Ions in the air.
- Test performed by the Kitasato Institute Medical Center Hospital and Kitasato Research Center of Environmental Sciences in Japan.
- Test report No.: 00313

Effective against Airbourne Mold Spores

Effects on Airborne Mold Spores



- Mode of operation: Plasmacluster Ion generator single operation in an experimental room of approximately 13.0 square meters.
- Temperature inside the room: 21°C, Humidity: 53% RH.
- Method of measurement: Air samples measuring the quantity of mold were taken from the center inside the room.
- Reduction method: Without filter, generate Plasmacluster Ions in the air.
- Test performed by the Ishikawa Health Service Association in Japan.
- Test report No.: 1503691



Self Cleaning Function

(Inverter and Super Deluxe models only)

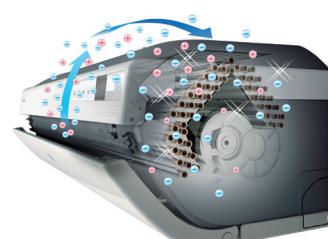
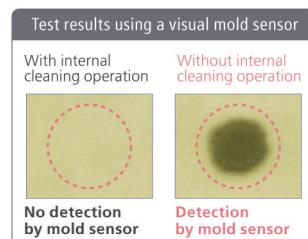
Plasmacluster Ions minimize the growth of mold inside the air conditioner.

While air blow and dry operations are performed for about 40 minutes, Plasmacluster Ions are blown through the interior of indoor equipment. This prevents odor-causing mold from growing on the surface of the heat exchanger.

(Note: Mold already formed cannot be removed.)

Test method: Measurements taken at Sharp's laboratory using the AY-P28XC model (Japanese model). At an outdoor/room temp. of 27°C and humidity of 70%, a cycle consisting of one hour of cooling operation, 40 minutes of internal cleaning, and 20 minutes off was conducted for 14 days (40 cycles).

Visual mold sensor manufactured by the Institute of Environmental Biology.



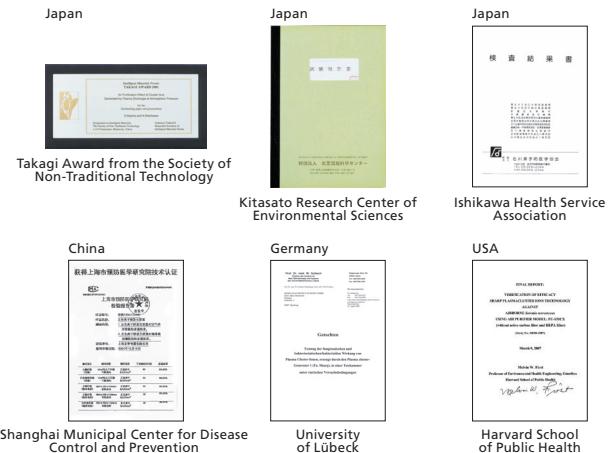
Even the inside stays clean using Plasmacluster Ions!

Count on Sharp for clean and healthy air

Proven at 13 Institutions in Japan and around the World

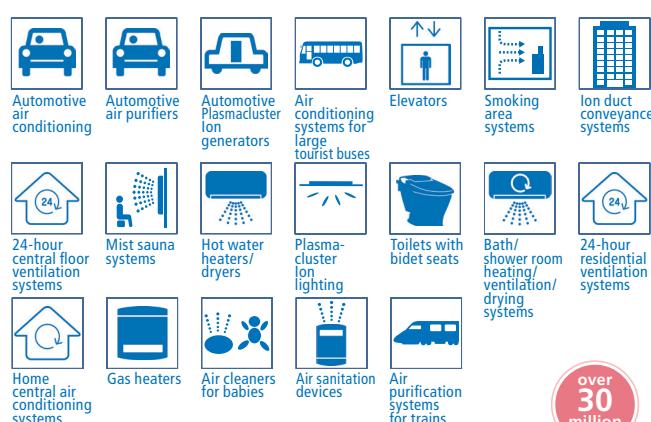
Test substance	Tested by:
Airborne viruses	<ul style="list-style-type: none"> • Seoul University (Korea) • Shanghai Municipal Center for Disease Control and Prevention • Retroscreen Virology, Ltd. (UK) • Kitasato University Kitasato Institute Medical Center Hospital (Japan) • Kitasato Research Center of Environmental Sciences (Japan)
Adhering viruses	<ul style="list-style-type: none"> • Retroscreen Virology, Ltd. (UK)
Airborne allergens	<ul style="list-style-type: none"> • Hiroshima University Graduate School of Advanced Sciences of Matter (Japan) • Osaka City University Medical School's Department of Biochemistry & Molecular Pathology (Japan)
Airborne mold	<ul style="list-style-type: none"> • Professor Gerhard Artmann, Aachen University of Applied Sciences (Germany) • Ishikawa Health Service Association (Japan)
Airborne microbes	<ul style="list-style-type: none"> • Shanghai Municipal Center for Disease Control and Prevention • Professor Gerhard Artmann, Aachen University of Applied Sciences (Germany) • Harvard School of Public Health (USA) • Kitasato University Kitasato Institute Medical Center Hospital (Japan) • Kitasato Research Center of Environmental Sciences (Japan) • Ishikawa Health Service Association (Japan)
Adhering microbes	<ul style="list-style-type: none"> • Kitasato University Kitasato Institute Medical Center Hospital (Japan)
Adhering odor	<ul style="list-style-type: none"> • Japan Spinners Inspecting Foundation
Adhering mold	<ul style="list-style-type: none"> • The University of Lübeck (Germany) • Japan Food Research Laboratories

*Test results for other test substances carried out by the same test institution at the same time have not been shown.



Used in a variety of industries

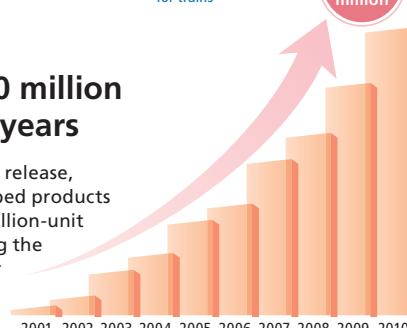
Plasmacluster Ion technology is recognized and used across a wide range of industries. In collaboration with a number of companies, Sharp has expanded the Plasmacluster Ion technology to the following industries:



over
30
million

Used in over 30 million products in 10 years

In the nine years since its release, Plasmacluster Ion-equipped products have exceeded the 30-million-unit mark. Sharp aims to bring the benefits of Plasmacluster Ions to every air space.



Energy Efficiency. Sharp's unique "Nature Wing" fan blades modeled after nature



Dragonfly wings reduce air friction*.

A dragonfly's wings have ridged surfaces that generate minuscule air eddies during flight. These eddies function like ball bearings to make flight smoother with less effort. The cross flow fans in indoor units feature blades modeled on this shape, which optimally harnesses the flow of air to boost air circulation efficiency.

* The new dragonfly-wing-shaped fan is currently employed only in models for the Asian region and is scheduled to be installed on European models in the future.

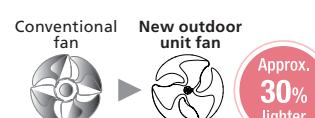
Cross-section of new dragonfly-wing-shaped fan blade



MAXIMIZING ENERGY EFFICIENCY THROUGH PROPRIETARY ENERGY-SAVING TECHNOLOGIES

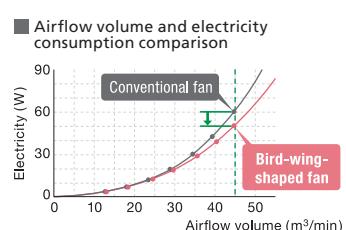
Outdoor Unit

Lighter-weight fan can handle more powerful airflow
The fan blade shape modeled on bird wings expels air efficiently, enabling a lighter-weight fan that at the same time can handle a powerful airflow. The design reduces resource consumption as well.



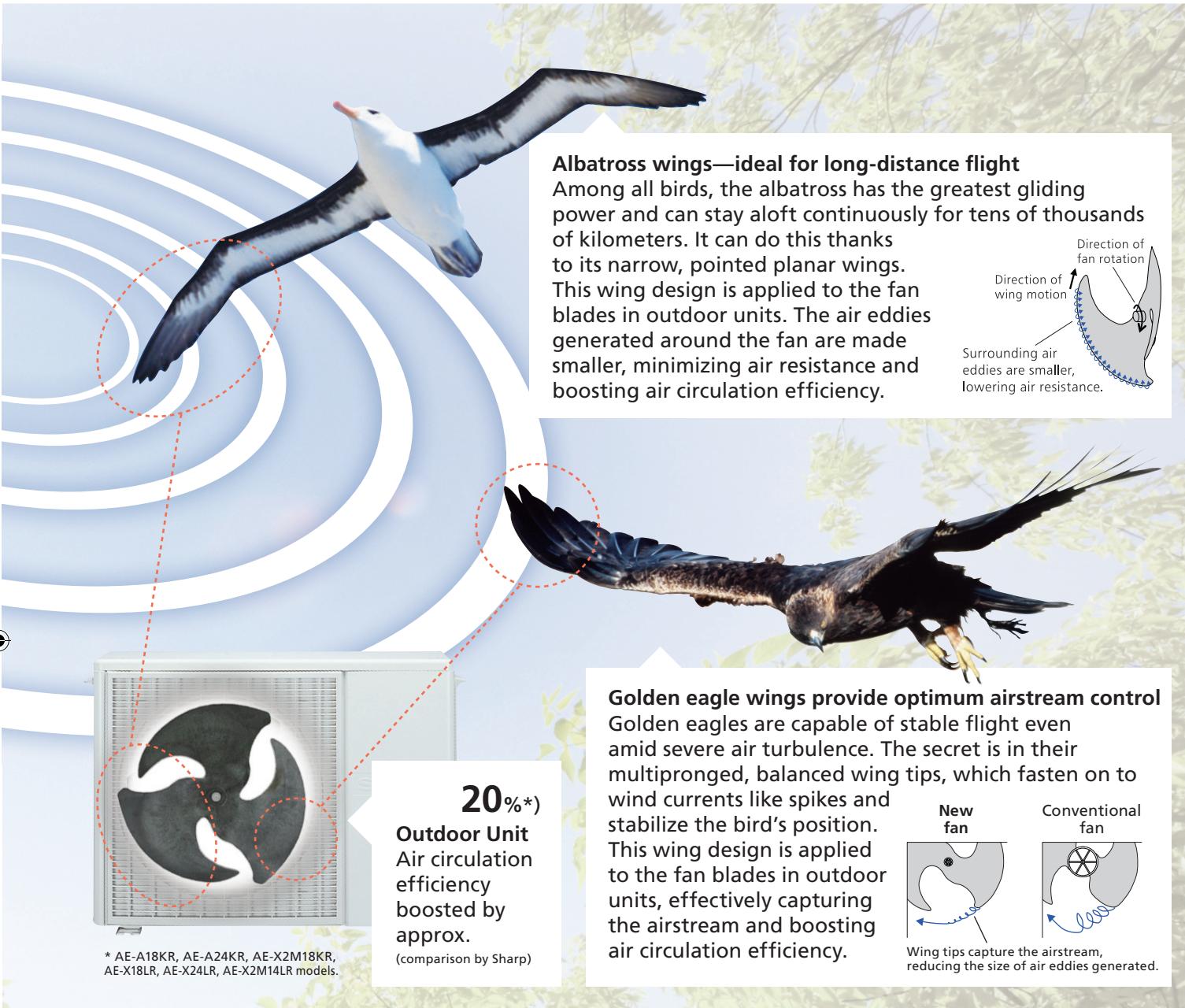
Less electricity used to blow air (Comparison by Sharp)

With improved air circulation efficiency, electricity consumption is reduced by approximately 20% at the same airflow volume.



*1 Comparison of electricity used to blow the same airflow volume with the conventional model and the new model with dragonfly wing design.
*2 Comparison of electricity used to blow the same airflow volume with the conventional fan and the bird-wing-shaped fan.

e for increased circulation efficiency



NATURE WING TECHNOLOGY HAS BEEN HIGHLY ACCLAIMED BY MULTIPLE EVALUATORS IN JAPAN.

The Promotion Foundation for
Electrical Science and Engineering, 2010
OHM Technology Award

For development of an outdoor air conditioner unit propeller fan with lighter weight and greater efficiency through adaptation of planar forms of bird wings

The Japan Society of Mechanical Engineers, 2010
Japan Society of Mechanical Engineers
(Kansai Chapter) Engineering Award

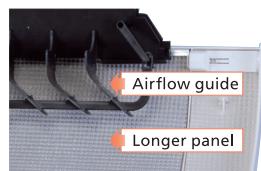
For development of a lightweight, high-efficiency propeller fan through biomimetic science (adaptation of planar forms of bird wings)

Comfort.

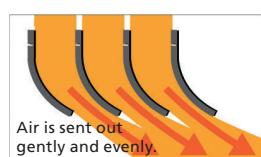
Precise control to match any situation or mood



Reach to every corner of the room Ultra-wide Airflow



A longer panel means a larger amount of air can be sent toward the walls, keeping the air from pooling near the panel and becoming inactive.

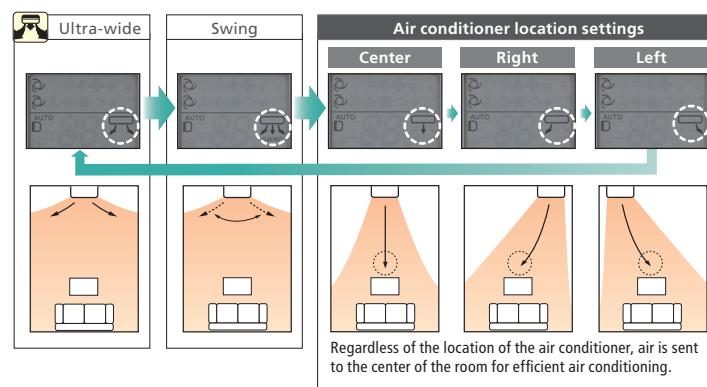


An airflow guide creates a smoother flow of air, minimizing losses in air volume.

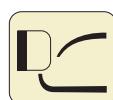
Airflows are easily recognized and controlled.
Airflow patterns can be changed to offer precise control over any type of living space.



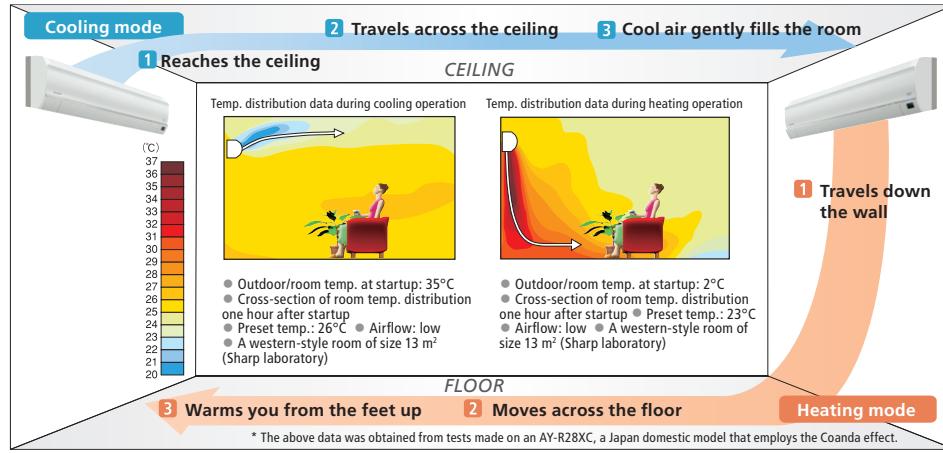
You can switch between modes by pressing this button.



Sharp brings you an ultra-wide airflow featuring a specially designed longer panel, which sends more air toward the walls to keep the air from stagnating, and an airflow guide, which creates a smoother airflow to minimize losses in air volume. By sending up a cool airflow to the ceiling and then to the walls in summer, this system cools the entire room gently without uncomfortable blasts of cold air. In winter, the warm air sent down to the floor and then to the walls envelops the room and warms evenly instead of blowing directly onto you. The result is a comfortably conditioned living environment throughout the year for everyone to enjoy.

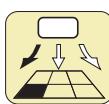


Creating the most comfortable living space possible The Coanda Effect

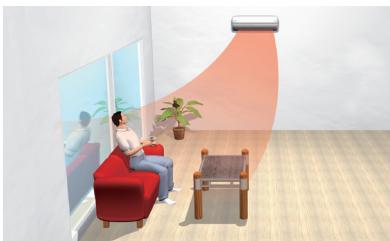


Sharp's air conditioners take advantage of a tendency in nature that has been termed the "Coanda effect" to heat and cool air evenly. The Coanda effect is the observed tendency of moving gas or fluid leaving a nozzle of some kind to cling to and follow nearby surfaces. Sharp air conditioners utilize this tendency by aiming the airflow at room surfaces, such as walls or ceilings, to more precisely control and direct the flow of air.

Energy Saving. Eco-friendliness and convenience

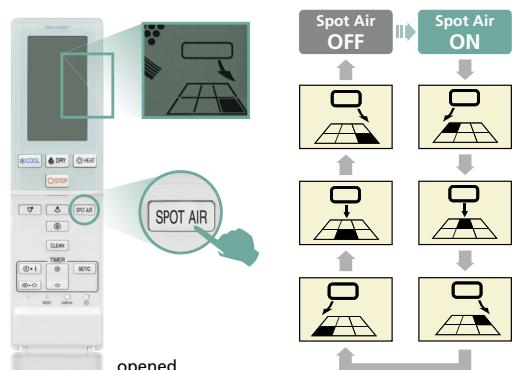


Area-specific comfort **Spot Air**



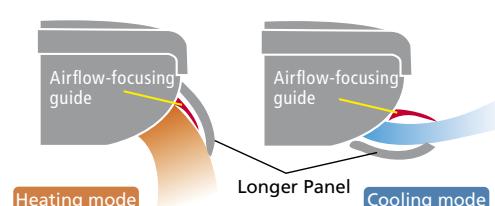
The room is divided into six areas, and you can choose which area to direct air into using a new remote control. Only the necessary area is quickly cooled or warmed, reducing total energy consumption. (AY-XPC18LR, AY-XP24LR)

Push the button to cycle through and choose from six areas



Long-distance comfort **Long Coanda Airflow System**

With the Long Coanda Airflow System, air travels further than with the regular Coanda Airflow System, even when you set the unit to run at low air volumes. This saves energy and increases comfort. (AY-XPC7/9/12JHR)

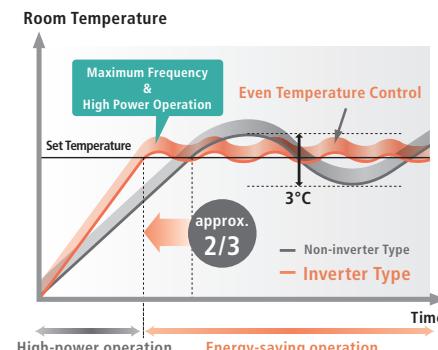


Inverter technology

Reaches preset temperatures in approx. 2/3 the time

(Chart below)

While inverter air conditioners have a full-output operation mode, they drastically reduce energy consumption when used in energy-saving operation mode. This is thanks to inverter circuitry, which modifies and maintains room temperature by switching the compressor between high and low operation modes, instead of switching it on and off completely as non-inverter models do. The inverter model keeps the compressor running and simply reduces output when the room reaches the target temperature, enabling comfortable, even temperature control.



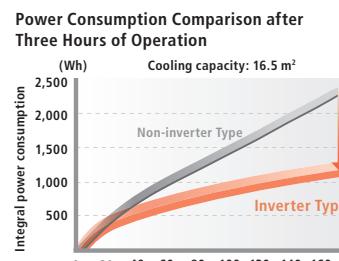
Reduces power consumption by approx. 50%

(Compared to Non-Inverter models)

Inverter air conditioners go into energy-saving operation mode immediately once the set temperature is achieved. Sharp's inverter air conditioners reduce energy consumption to 52% of that of non-inverter models after three hours of operation, increasing performance efficiency using high-power DC motors for the compressor and outdoor fan, and a pulse linear expansion valve.



Electronic Digital Control



Pulse Linear Expansion Valve

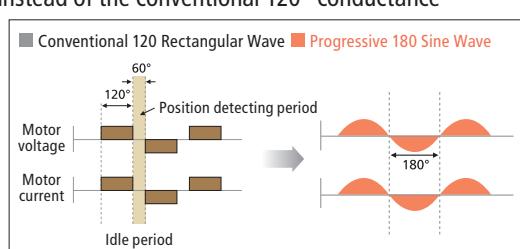
Sine wave drive compressor control system

Energy Savings

Noise Reduction

Powerful Heating

Uses the improved compressor control technology, which adopts a 180° conductance sine wave instead of the conventional 120° conductance waveform, resulting in a smoothing of motor rotation. This greatly reduces energy loss, contributing to higher efficiency, and thus higher energy savings.



* For AE-X7JR, GU-X9FGR, AE-X2M18KR, AE-X3M18JR, AE-XM24HR models.

Inverter. Single Type

WALL MOUNTED

Super Deluxe

| AY-XPC7JHR | AY-XPC9JHR | AY-XPC12JHR

R410A



Features



- Twin Plasmacluster Ion Device
- Ultra-wide & Long Coanda Airflow System
- Can be used singly or in a multi split system.

| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
AY-XPC7JHR	2.10 (0.90-2.50)	4.04	2.40 (0.90-3.50)	4.85
AY-XPC9JHR	2.50 (0.90-3.00)	4.00	3.20 (0.90-5.00)	4.21
AY-XPC12JHR	3.50 (0.90-3.80)	3.21	4.50 (0.90-5.70)	3.92

WALL MOUNTED

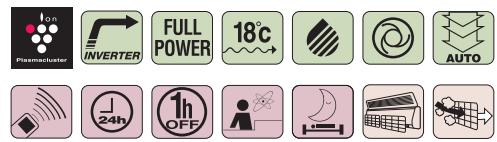
Deluxe

| AY-XPC7JR | AY-XPC9JR | AY-XPC12JR

R410A



Features



- Can be used singly or in a multi split system.
- Coanda Airflow System

| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
AY-XPC7JR	2.10 (0.90-2.50)	4.04	2.40 (0.90-3.50)	4.85
AY-XPC9JR	2.50 (0.90-3.00)	4.00	3.20 (0.90-5.00)	4.21
AY-XPC12JR	3.50 (0.90-3.80)	3.21	4.50 (0.90-5.70)	3.92

WALL MOUNTED

Standard

| AY-XP9LSR | AY-XP12LSR

R410A



Features



- Coanda Airflow System

| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
AY-XP9LSR	2.10 (0.90-3.00)	3.25	2.90 (0.90-3.70)	3.72
AY-XP12LSR	2.50 (0.90-3.80)	3.24	4.00 (0.90-4.70)	3.72



Outdoor unit



AE-X7JR AE-X9JR AE-X12JR

Specifications

Model	Indoor		AY-XPC7JHR	AY-XPC9JHR	AY-XPC12JHR
	Outdoor	AE-X7JR	AE-X9JR	AE-X12JR	
Capacity *1	Cool (Min.-Max.)	kW	2.10 0.90-2.50	2.50 0.90-3.00	3.50 0.90-3.80
	Heat (Min.-Max.)	kW	2.40 0.90-3.50	3.20 0.90-5.00	4.00 0.90-5.70
Power supply	V-ph-Hz		220-240-1~50		
Running current *1	Cool	A	2.7	3.1	4.9
	Heat	A	2.6	3.7	4.6
Power input *1	Cool (Min.-Max.)	W	520 200-720	625 200-900	1,090 200-1,300
	Heat (Min.-Max.)	W	495 180-890	760 180-1,450	1,020 180-1,650
EER *1	Cool		4.04	4.00	3.21
COP *1	Heat		4.85	4.21	3.92
Energy efficiency (Cool/Heat)		A/A	A/A	A/A	
class *1	Annual energy consumption	kWh	260	313	545
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	36/26	37/26	40/27
	Outdoor	dB(A)	45	45	48
Sound power level (Cool)	Indoor (Hi)	dB(A)	51	52	56
	Outdoor	dB(A)	58	58	61
Airflow volume	Indoor (Hi/Cool)	m³/min.	8.0	8.4	9.7
Dimensions	Indoor	mm	798 x 260 x 290	798 x 260 x 290	798 x 260 x 290
	Outdoor	mm	730 x 540 x 250	730 x 540 x 250	730 x 540 x 250

Model	Indoor		AY-XPC7JHR	AY-XPC9JHR	AY-XPC12JHR
	Outdoor	AE-X7JR	AE-X9JR	AE-X12JR	
Net weight	Indoor	kg	11	11	11
	Outdoor	kg	31	33	33
Pipe diameter	Liquid side	inch	1/4	1/4	1/4
	Gas side	inch	3/8	3/8	3/8
Min-Max pipe length	m		1-15	1-15	1-15
Maximum chargeless length	m		10	10	10
Maximum height difference	m		7	7	7
Refrigerant			R410A		
Operating range (Outdoor)	Cool	°C		-10-46	
	Heat	°C		-15-24	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

Outside air temperature:

35°C D.B. 24°C W.B. (Cooling)

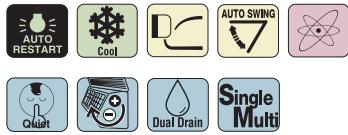
20°C D.B. 6°C W.B. (Heating)

7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.



Outdoor unit



AE-X7JR AE-X9JR AE-X12JR

Specifications

Model	Indoor		AY-XPC7JR	AY-XPC9JR	AY-XPC12JR
	Outdoor	AE-X7JR	AE-X9JR	AE-X12JR	
Capacity *1	Cool (Min.-Max.)	kW	2.10 0.90-2.50	2.50 0.90-3.00	3.50 0.90-3.80
	Heat (Min.-Max.)	kW	2.40 0.90-3.50	3.20 0.90-5.00	4.00 0.90-5.70
Power supply	V-ph-Hz		220-240-1~50		
Running current *1	Cool	A	2.7	3.1	4.9
	Heat	A	2.6	3.7	4.6
Power input *1	Cool (Min.-Max.)	W	520 200-720	625 200-900	1,090 200-1,300
	Heat (Min.-Max.)	W	495 180-890	760 180-1,450	1,020 180-1,650
EER *1	Cool		4.04	4.00	3.21
COP *1	Heat		4.85	4.21	3.92
Energy efficiency (Cool/Heat)		A/A	A/A	A/A	
class *1	Annual energy consumption	kWh	260	313	545
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	36/26	37/26	40/27
	Outdoor	dB(A)	45	45	48
Sound power level (Cool)	Indoor (Hi)	dB(A)	51	52	56
	Outdoor	dB(A)	58	58	61
Airflow volume	Indoor (Hi/Cool)	m³/min.	8.0	8.4	10.5
Dimensions	Indoor	mm	790 x 278 x 198	790 x 278 x 198	790 x 278 x 198
	Outdoor	mm	730 x 540 x 250	730 x 540 x 250	730 x 540 x 250

Model	Indoor		AY-XPC7JR	AY-XPC9JR	AY-XPC12JR
	Outdoor	AE-X7JR	AE-X9JR	AE-X12JR	
Net weight	Indoor	kg	10	10	10
	Outdoor	kg	31	33	33
Pipe diameter	Liquid side	inch	1/4	1/4	1/4
	Gas side	inch	3/8	3/8	3/8
Min-Max pipe length	m		1-15	1-15	1-15
Maximum chargeless length	m		10	10	10
Maximum height difference	m		7	7	7
Refrigerant			R410A		
Operating range (Outdoor)	Cool	°C		-10-46	
	Heat	°C		-15-24	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

Outside air temperature:

35°C D.B. 24°C W.B. (Cooling)

20°C D.B. 6°C W.B. (Heating)

7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.



Outdoor unit



AE-X9LSR AE-X12LSR

Specifications

Model	Indoor		AY-XP9LSR	AY-XP12LSR
	Outdoor	AE-X9LSR	AE-X12LSR	
Capacity *1	Cool (Min.-Max.)	kW	2.50 0.90-3.00	3.50 0.90-3.80
	Heat (Min.-Max.)	kW	2.90 0.90-3.70	3.20 0.90-5.70
Power supply	V-ph-Hz		220-240-1~50	
Running current *1	Cool	A	4.0	5.0
	Heat	A	4.0	5.0
Power input *1	Cool (Min.-Max.)	W	770 240-1100	1,080 240-1,250
	Heat (Min.-Max.)	W	780 220-1,200	1,075 220-1,470
EER *1	Cool		3.25	3.24
COP *1	Heat		3.72	3.72
Energy efficiency (Cool/Heat)		A/A	A/A	
class *1	Annual energy consumption	kWh	385	540
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	37/23	40/23
	Outdoor	dB(A)	45	48
Sound power level (Cool)	Indoor (Hi)	dB(A)	54	54
	Outdoor	dB(A)	60	62
Airflow volume	Indoor (Hi/Cool)	m³/min.	9.1	11.2
Dimensions	Indoor	mm	860 x 292 x 205	860 x 292 x 205
	Outdoor	mm	730 x 540 x 250	730 x 540 x 250

Model	Indoor		AY-XP9LSR	AY-XP12LSR
	Outdoor	AE-X9LSR	AE-X12LSR	
Net weight	Indoor	kg	8.5	9
	Outdoor	kg	29	32
Pipe diameter	Liquid side	inch	1/4	1/4
	Gas side	inch	3/8	1/2
Min-Max pipe length	m		1-15	1-15
Maximum chargeless length	m		7.5	7.5
Maximum height difference	m		7	7
Refrigerant			R410A	
Operating range (Outdoor)	Cool	°C		21-46
	Heat	°C		-7-24

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

Outside air temperature:

35°C D.B. 24°C W.B. (Cooling)

20°C D.B. 6°C W.B. (Heating)

7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

Inverter. Single Type

WALL MOUNTED

Deluxe

| AY-XPC18LR | AY-XP24LR



R410A



FLOOR STANDING

Deluxe

| GS-XP9FGR | GS-XP12FGR
| GS-XP18FGR



R410A



FLOOR/CEILING

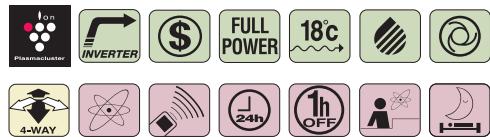
| GS-XP18FR | GS-XP24FR



R410A



Features



- Spot Air function
- Can be used singly or in a multi split system. (for AY-XPC18LR)
- Coanda Airflow System

| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
AY-XPC18LR	5.00 (1.50-5.70)	3.40	5.70 (1.50-8.00)	3.77
AY-XP24LR	7.00 (1.60-8.00)	3.24	7.50 (1.80-9.50)	3.72

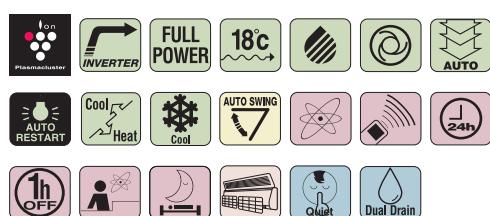
Features



| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
GS-XP9FGR	2.50 (0.90-3.00)	4.07	3.40 (0.90-5.00)	4.36
GS-XP12FGR	3.50 (0.90-4.00)	3.26	4.50 (0.90-6.00)	3.66
GS-XP18FGR	5.00 (0.90-5.70)	3.01	5.70 (0.90-7.70)	3.61

Features



| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
GS-XP18FR	5.00 (1.70-6.10)	3.21	6.20 (1.70-7.50)	3.65
GS-XP24FR	7.00 (2.40-8.00)	3.21	8.00 (2.80-9.00)	3.62



* For the AY-XPC18LR model only.

Outdoor unit



AE-X18LR AE-X24LR

Specifications

Model	Indoor		AY-XPC18LR	AY-XPC24LR
	Outdoor		AE-X18LR	AE-X24LR
Capacity *1	Cool (Min.-Max.)	kW	5.00 1.40-5.70	7.00 1.50-8.00
	Heat (Min.-Max.)	kW	5.70 1.10-8.00	7.50 1.10-9.50
Power supply	V-ph-Hz		220-240-1ø-50	
Running current *1	Cool	A	6.6	9.6
	Heat	A	6.8	8.9
Power input *1	Cool (Min.-Max.)	W	1,470 260-1,890	2,160 260-2,990
	Heat (Min.-Max.)	W	1,510 240-2,380	2,015 240-2,830
EER *1	Cool		3.40	3.24
COP *1	Heat		3.77	3.72
Energy efficiency (Cool/Heat)		A/A	A/A	
class *1	Annual energy consumption	kWh	735	1,080
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	43/33	47/35
	Outdoor	dB(A)	49	53
Sound power level (Cool)	Indoor (Hi)	dB(A)	58	63
	Outdoor	dB(A)	62	66
Airflow volume	Indoor (Hi/Cool)	m³/min.	14.4	18.4
Dimensions	Indoor	mm	1,040 x 325 x 222	1,040 x 325 x 222
	Outdoor	mm	850 x 710 x 330	850 x 710 x 330

Model	Indoor		AY-XPC18LR	AY-XP24LR
	Outdoor		AE-X18LR	AE-X24LR
Net weight	Indoor	kg	12	13
	Outdoor	kg	49	53
Pipe diameter	Liquid side	inch	1/4	1/4
	Gas side	inch	1/2	5/8
Min-Max pipe length		m	1-20	1-30
Maximum chargeless length		m	1.0	1.0
Maximum height difference		m	10	10
Refrigerant			R410A	
Operating range	Cool (Outdoor)	°C	-10-46	
	Heat	°C		-15-24

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature: 27°C D.B. 19°C W.B. (Cooling) 35°C D.B. 24°C W.B. (Cooling)
20°C D.B. (Heating) 7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

Outdoor unit



GU-X9FGR GU-X12FGR



AE-X18GR

Specifications

Model	Indoor		GS-XP9FGR	GS-XP12FGR	GS-XP18FGR
	Outdoor		GU-X9FGR	GU-X12FGR	GU-X18FGR
Capacity *1	Cool (Min.-Max.)	kW	2.50 0.90-3.00	3.50 0.90-4.00	5.00 0.90-5.70
	Heat (Min.-Max.)	kW	3.40 0.90-5.00	4.50 0.90-6.00	5.70 0.90-7.70
Power supply	V-ph-Hz		220-240-1ø-50		
Running current *1	Cool	A	2.9	5.0	7.4
	Heat	A	3.6	5.7	7.0
Power input *1	Cool (Min.-Max.)	W	6,45 200-890	1,075 230-1,320	1,660 260-2,190
	Heat (Min.-Max.)	W	780 200-1,400	1,230 230-1,730	1,580 260-2,400
EER *1	Cool		4.07	3.26	3.01
COP *1	Heat		4.36	3.66	3.61
Energy efficiency (Cool/Heat)		A/A	A/A	B/A	
class *1	Annual energy consumption	kWh	308	5.38	8.30
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	37/22	38/23	44/33
	Outdoor	dB(A)	45	46	49
Sound power level (Cool)	Indoor (Hi)	dB(A)	53	53	60
	Outdoor	dB(A)	61	62	65
Airflow volume	Indoor (Hi/Cool)	m³/min.	9.9	10.5	14.2
Dimensions	Indoor	mm	750 x 670 x 235	750 x 670 x 235	750 x 670 x 235
	Outdoor	mm	730 x 540 x 250	730 x 540 x 250	780 x 540 x 265

Model	Indoor		GS-XP9FGR	GS-XP12FGR	GS-XP18FGR
	Outdoor		GU-X9FGR	GU-X12FGR	GU-X18FGR
Net weight	Indoor	kg	17	17	17
	Outdoor	kg	33	33	37
Pipe diameter	Liquid side	inch	1/4	1/4	1/4
	Gas side	inch	3/8	3/8	1/2
Min-Max pipe length		m	1-20	1-20	1-30
Maximum chargeless length		m	15	15	30
Maximum height difference		m	7	7	10
Refrigerant			R410A		
Operating range	Cool (Outdoor)	°C	-10-46		
	Heat	°C		-15-24	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature: 27°C D.B. 19°C W.B. (Cooling) 35°C D.B. 24°C W.B. (Cooling)
20°C D.B. (Heating) 7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

Specifications

Model	Indoor		GS-XP18FR	GS-XP24FR
	Outdoor		GU-XR18FR	GU-XR24FR
Capacity *1	Cool (Min.-Max.)	kW	5.00 1.70-6.10	7.00 2.40-8.00
	Heat (Min.-Max.)	kW	6.20 1.70-7.50	8.00 2.80-9.00
Power supply	V-ph-Hz		220-240-1ø-50	
Running current *1	Cool	A	7.2	10.0
	Heat	A	7.8	10.1
Power input *1	Cool (Min.-Max.)	W	1,560 370-2,650	2,180 630-3,120
	Heat (Min.-Max.)	W	1,700 370-2,200	2,210 730-2,800
EER *1	Cool		3.21	3.24
COP *1	Heat		3.65	3.62
Energy efficiency (Cool/Heat)		A/A	A/A	
class *1	Annual energy consumption	kWh	780	1,090
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	43/34	47/35
	Outdoor	dB(A)	54	53
Sound power level (Cool)	Indoor (Hi)	dB(A)	57	60
	Outdoor	dB(A)	67	69
Airflow volume	Indoor (Hi/Cool)	m³/min.	17.0	19.0
Dimensions	Indoor	mm	1,300 x 680 x 212	1,300 x 680 x 212
	Outdoor	mm	890 x 800 x 320	890 x 800 x 320

Model	Indoor		GS-XP18FR	GS-XP24FR
	Outdoor		GU-XR18FR	GU-XR24FR
Net weight	Indoor	kg	34	36
	Outdoor	kg	57	65
Pipe diameter	Liquid side	inch	1/4	3/8
	Gas side	inch	1/2	5/8
Min-Max pipe length		m	1-30	1-30
Maximum chargeless length		m	3.0	3.0
Maximum height difference		m	20	20
Refrigerant			R410A	
Operating range	Cool (Outdoor)	°C	-10-46	
	Heat	°C		-15-24

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature: 27°C D.B. 19°C W.B. (Cooling) 35°C D.B. 24°C W.B. (Cooling)
20°C D.B. (Heating) 7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

Outdoor unit



GU-XR18FR GU-XR24FR

On/Off. Single Type

WALL MOUNTED

Deluxe

| AY-AP9NR | AY-AP12NR



R410A



Features



- Turbo Cooling and Heating Operation
- Plasmacluster Ion
- Coanda Airflow System

| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW)	EER	Capacity (kW)	COP
AY-AP9NR	2.64	3.22 A	2.90	3.63 A
AY-AP12NR	3.50	3.21 A	3.80	3.62 A

WALL MOUNTED

Deluxe

| AY-AP18KR | AY-AP24KR



R410A



Features



- Turbo Cooling and Heating Operation
- Plasmacluster Ion
- Coanda Airflow System

| Cool | Dry | Heat |

Model	Cooling Operation		Heating Operation	
	Capacity (kW)	EER	Capacity (kW)	COP
AY-AP18KR	5.00	3.01 A	5.60	3.41 A
AY-AP24KR	6.50	3.01 A	7.70	3.41 A

PORTABLE

| CV-P09FR



Single duct

R410A



Features

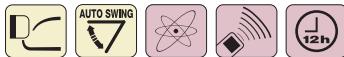


- Turbo Cooling Operation: Powerful Airflow 8m³/min
- Industrial Top Class Quietness: 36 dB (low mode)
- Effective Dehumidification System: 28 L/day
- Exhaust Only Mode

| Cool | Dry | Heat |

Model	Cooling Operation	
	Capacity (kW)	EER
CV-P09FR	2.12	2.41

(Standard: EN 14511)



Outdoor unit



AE-A9NR AE-A12NR

Specifications

Model	Indoor		AY-AP9NR	AY-AP12NR
	Outdoor		AE-A9NR	AE-A12NR
Capacity *1	Cool	kW	2.64	3.50
	Heat	kW	2.90	3.80
Power supply	V-ph-Hz		220-240-1φ-50	
Running current *1	Cool	A	3.7	4.9
	Heat	A	3.6	4.7
Power input *1	Cool	W	820	1,090
	Heat	W	800	1,050
EER *1	Cool		3.22	3.24
	Heat		3.63	3.62
Energy efficiency (Cool/Heat)		A/A	A/A	
class *1	Annual energy consumption	kWh	410	545
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	38/28	40/29
	Outdoor	dB(A)	45	48
Sound power level (Cool)	Indoor (Hi)	dB(A)	54	55
	Outdoor	dB(A)	59	62
Airflow volume	Indoor (Hi/Cool)	m³/min.	8.0	9.5
Dimensions	Indoor	mm	860 x 292 x 223	860 x 292 x 223
(WxHxD)	Outdoor	mm	762 x 540 x 257	762 x 540 x 257

Model	Indoor		AY-AP9NR	AY-AP12NR
	Outdoor		AE-A9NR	AE-A12NR
Net weight	Indoor	kg	9.5	10
	Outdoor	kg	29	36
Pipe diameter	Liquid side	inch	1/4	1/4
	Gas side	inch	3/8	1/2
Min-Max pipe length		m	1-10	1-15
Maximum chargeless length		m	7.5	7.5
Maximum height difference		m	5	7
Refrigerant			R410A	
Operating range	Cool	°C	21-43	
(Outdoor)	Heat	°C	-7-24	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

20°C D.B. (Heating)

Outside air temperature:

35°C D.B. 24°C W.B. (Cooling)

7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

Specifications

Model	Indoor		AY-AP18KR	AY-AP24KR
	Outdoor		AE-A18KR	AE-A24KR
Capacity *1	Cool	kW	5.00	6.50
	Heat	kW	5.60	7.70
Power supply	V-ph-Hz		220-240-1φ-50	
Running current *1	Cool	A	7.6	10.0
	Heat	A	7.5	10.5
Power input *1	Cool	W	1,660	2,160
	Heat	W	1,640	2,260
EER *1	Cool		3.01	3.01
	Heat		3.41	3.41
Energy efficiency (Cool/Heat)		B/B	B/B	
class *1	Annual energy consumption	kWh	830	1,080
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	41/34	45/37
	Outdoor	dB(A)	52	54
Sound power level (Cool)	Indoor (Hi)	dB(A)	57	55
	Outdoor	dB(A)	68	62
Airflow volume	Indoor (Hi/Cool)	m³/min.	14.1	9.5
Dimensions	Indoor	mm	1,040 x 325 x 222	1,040 x 325 x 222
(WxHxD)	Outdoor	mm	890 x 645 x 327	890 x 645 x 327

Model	Indoor		AY-AP18KR	AY-AP24KR
	Outdoor		AE-A18KR	AE-A24KR
Net weight	Indoor	kg	14	14
	Outdoor	kg	43	53
Pipe diameter	Liquid side	inch	1/4	1/4
	Gas side	inch	1/2	1/2
Min-Max pipe length		m	1-15	1-15
Maximum chargeless length		m	7.5	7.5
Maximum height difference		m	10	10
Refrigerant			R410A	
Operating range	Cool	°C	21-46	
(Outdoor)	Heat	°C	-7-24	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

20°C D.B. (Heating)

Outside air temperature:

35°C D.B. 24°C W.B. (Cooling)

7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

Specifications

Model	Indoor		CV-P09FR
	Outdoor		—
Capacity *1	Cool	kW	2.12
	Heat	kW	—
Power supply	V-ph-Hz		220-230-240-1φ-50
Running current *1	Cool	A	4.0
	Heat	A	—
Power input *1	Cool	W	880
	Heat	W	—
EER *1	Cool		2.41
	Heat		—
Energy efficiency (Cool/Heat)		B	
class *1	Annual energy consumption	kWh	440
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB(A)	46/36
	Outdoor	dB(A)	—
Sound power level (Cool)	Indoor (Hi)	dB(A)	62
	Outdoor	dB(A)	—
Airflow volume	Indoor (Hi/Cool)	m³/min.	8 (Max.)
Dimensions	Indoor	mm	470 x 820 x 383
(WxHxD)	Outdoor	mm	—

Model	Indoor		CV-P09FR
	Outdoor		—
Net weight	Indoor	kg	36
	Outdoor	kg	—
Pipe diameter	Liquid side	inch	—
	Gas side	inch	—
Min-Max pipe length		m	—
Maximum chargeless length		m	—
Maximum height difference		m	—
Refrigerant			R410A
Operating range	Cool	°C	18-40*2
(Outdoor)	Heat	°C	—

*1 Sound pressure level is measured according to JIS C 9612.

*2 For portable air conditioners, operating range is based on indoor temperature.

Inverter. Multi Type

A WIDE VARIETY OF CHOICES FOR INDOOR UNITS

Sharp's multi-split air conditioning systems allow you to combine up to four indoor units with a single outdoor unit. The indoor units can be wall mounted types, floor/ceiling types, or floor standing types. This wide-ranging choice of indoor units offers you more flexible coordination for each room.



Outdoor unit lineup

2 ROOMS



AE-X2M14LR



AE-X2M18KR

* Two indoor units must be connected.

* See the capacity table on page 18 for permissible combinations.

Example of indoor unit combinations

Outdoor unit	Indoor unit	Cooling Operation		Heating Operation	
		Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
AE-X2M14LR Cool Dry Heat	12 + 7	3.8 (1.8-4.3)	4.22	4.4 (1.9-5.4)	*1
	9 + 9	3.8 (1.8-4.3)		4.4 (1.8-5.4)	
	7 + 7	3.8 (1.8-4.3)		4.4 (1.8-5.4)	
AE-X2M18KR Cool Dry Heat	12 + 7	5.2 (1.8-6.0)	3.40	5.8 (1.9-7.3)	*2
	9 + 9	5.2 (1.8-6.0)		5.8 (1.9-7.3)	
	9 + 7	4.9 (1.8-5.6)		5.4 (1.9-7.0)	4.00

*1 AE-X2M14LR Representative connection (7+7)

*2 AE-X2M18KR Representative connection (9+9)

Connectable indoor units

Class 7

Wall mounted AY-XPC7JR



Wall mounted AY-XPC7JHR



Wall mounted

Floor standing

Floor / Ceiling GS-XPM7FR



3 ROOMS



AE-X3M18JR

* Two indoor units must be connected.

* See the capacity table on page 18 for permissible combinations.

Example of indoor unit combinations

Outdoor unit	Indoor unit	Cooling Operation		Heating Operation	
		Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
AE-X3M18JR [Cool Dry Heat]	12 + 7 + 7	5.2 (2.2–7.2)	6.69*	6.8 (2.2–8.4)	4.10*
	9 + 9 + 7	5.2 (2.2–7.2)		6.8 (2.2–8.4)	
	9 + 7 + 7	5.2 (2.2–7.2)		6.8 (2.2–8.4)	
	7 + 7 + 7	5.2 (2.2–7.0)		6.8 (2.2–8.4)	

* Representative connection (7+7+7)

4 ROOMS



AE-XM24HR



AE-XM30GR

* At least three indoor units must be connected.

* See the capacity table on page 19 for permissible combinations.

Example of indoor unit combinations

Outdoor unit	Indoor unit	Cooling Operation		Heating Operation	
		Capacity (kW) (Min.-Max.)	EER	Capacity (kW) (Min.-Max.)	COP
AE-XM24HR [Cool Dry Heat]	12+7+7+7	7.0 (3.00–8.20)	3.21	8.00 (3.00–9.20)	*1 4.00
	9+9+7+7	7.0 (3.00–8.20)		8.00 (3.00–9.20)	
	9+7+7+7	7.0 (3.00–8.20)		8.00 (3.00–9.20)	
	7+7+7+7	7.0 (3.00–8.20)		8.00 (3.00–9.20)	
AE-XM30GR [Cool Dry Heat]	18+7+7+7	8.40 (4.30–9.00)	2.81	9.00 (4.40–10.60)	*2 3.75
	10+7+7+7	8.40 (4.30–9.00)		9.00 (4.40–10.60)	
	9+9+7+7	8.40 (4.30–9.00)		9.00 (4.40–10.60)	
	9+7+7+7	8.40 (4.30–9.00)		9.00 (4.40–10.60)	
	7+7+7+7	8.00 (4.30–9.00)		8.50 (4.40–9.80)	

*1 AE-XM24HR Representative connection (7+7+7+7)

*2 AE-XM30GR Representative connection (9+7+7+7)

3 INDOOR UNIT

9

AY-XPC9JR



12

AY-XPC12JR



18*

AY-XPC9JHR



AY-XPC12JHR



AY-XPC18LR

For AE-XM30GR only*



GS-XPM9FGR



GS-XPM12FGR



GS-XPM18FGR

For AE-XM30GR only*



GS-XPM9FR



GS-XPM12FR



Inverter. Multi Type

Specifications

Outdoor units

System	2-indoor operation	2-indoor operation	3-indoor operation	4-indoor operation	4-indoor operation
Model	Outdoor	AE-X2M14LR	AE-X2M18KR	AE-X3M18JR	AE-M30GR
Indoor unit combination *3	7 + 7	9 + 9	7 + 7 + 7	7 + 7 + 7 + 7	9 + 7 + 7 + 7
Capacity *1	Cool (Min.-Max.) kW	3.80 (1.80–4.30)	5.60 (1.80–6.00)	5.20 (2.20–7.00)	7.00 (3.00–8.20)
	Heat (Min.-Max.) kW	4.40 (1.90–5.40)	5.80 (1.90–7.30)	6.80 (2.20–8.40)	8.40 (4.30–9.00)
Power supply	V-ph-Hz	230-1ø-50	230-1ø-50	230-1ø-50	230-1ø-50
Running current *1	Cool	A			
	Heat	A	4.4	6.7 (1.7–9.6)	9.2 (2.6–11.7)
Power input *1	Cool (Min.-Max.) W	900 (350–1,160)	1,530 (350–2,050)	1,410 (430–2,460)	2,180 (600–2,980)
	Heat (Min.-Max.) W	950 (370–1,300)	1,450 (370–2,100)	1,660 (420–2,480)	2,000 (560–2,560)
EER *1	Cool	4.22	3.40	3.69	3.21
COP *1	Heat		4.63	4.00	4.10
Energy efficiency class *1	Cool		A	A	A
Annual energy consumption kWh		450	765	705	1,090
Heat			A	A	A
Sound pressure level*2 (Cool) dB (A)		45	46	46	49
Sound power level*2 (Cool) dB		62	62	62	65
Dimensions	W mm	890	890	890	890
	H mm	890	645	645	800
	D mm	290	290	290	320
Net weight kg		51	51	53	64
Pipe diameter Liquid side inch		1/4 x 2	1/4 x 2	1/4 x 3	1/4 x 4
Gas side inch		3/8 x 2	3/8 x 2	3/8 x 3	3/8 x 4
Min-Max pipe length (per indoor unit) m		3–25	3–25	3–25	3–20
Maximum length (total) m		40	40	50	50
Maximum chargeless length (total) m		25	25	30	40
Maximum height difference m		10	10	10	10
Refrigerant		R410A	R410A	R410A	R410A
Operating range (Outdoor) Cool °C		-10–43	-10–43	21–43	21–43
Heat °C		-15–24	-15–24	-15–24	-15–24

Indoor units

Model	Wall Mounted		Floor Standing		Floor/Ceiling	
	AY-XPC7/9/12JHR	AY-XPC7/9/12JR	AY-XPC18LR	GS-XPM9/12/18FGR	GS-XPM7/9/12FR	GS-XPM7/9/12FR
Sound pressure level *2 (Cool) (Hi/Lo) dB (A)	7JHR: 36/26, 9JHR: 37/26, 12JHR: 40/27	7JR: 36/26, 9JR: 37/26, 12JR: 40/27	43/39	9FGR: 38/25, 12FGR: 40/26, 18FGR: 44/35	7FR: 34/27, 9FR: 38/29, 12FR: 39/30	
Sound power level (Cool) Hi dB	7JHR: 51, 9JHR: 52, 12JHR: 56	7JR: 51, 9JR: 52, 12JR: 56	58	9FGR: 53, 12FGR: 54, 18FGR: 60	7FR: 47, 9FR: 52, 12FR: 52	
Airflow volume (Cool) Hi m³/min.	7JHR: 8.0, 9JHR: 8.4, 12JHR: 9.7	7JR: 8.9, 9JR: 9.1, 12JR: 10.5	14.4	9FGR: 9.3, 12FGR: 10.6 18FGR: 14.2	7FR: 7.5, 9FR: 8.7, 12FR: 10.4	
Dimensions W mm	798	790	1,040	750	1,025	
H mm	260	278	325	670	680	
D mm	290	198	222	235	212	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz
Inside air temperature: 27°C D.B. 19°C W.B. (Cooling) 20°C D.B. (Heating)
Outside air temperature: 35°C D.B. 24°C W.B. (Cooling) 7°C D.B. 6°C W.B. (Heating)

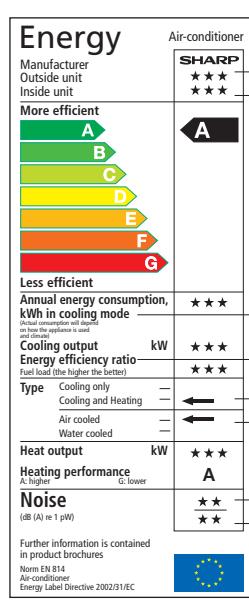
* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40

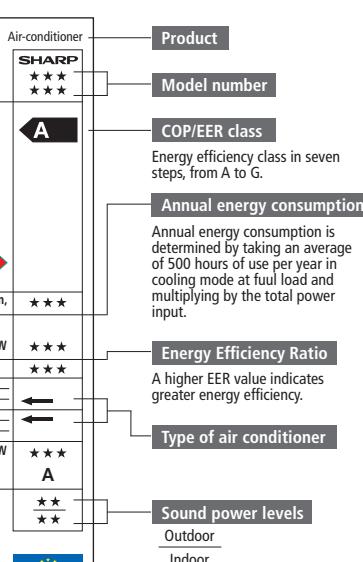
*2 Sound pressure level is measured according to JIS C 9612.

*3 7: AY-XPC7JHR, AY-XPC7JR, AY-XPM7FR, GS-XPM7FR

9: AY-XPC9JHR, AY-XPC9JR, AY-XPM9FR, GS-XPM9FR, GS-XPM9FGR



Energy label used in EU countries.



Efficiency Classifications

Of the seven classification of energy efficiency from A to G, "A" is the most efficient level and "G" the least efficient.

COOLING mode energy efficiency class for the unit

- A** 3.20 < EER
- B** 3.20 ≥ EER > 3.00
- C** 3.00 ≥ EER > 2.80
- D** 2.80 ≥ EER > 2.60
- E** 2.60 ≥ EER > 2.40
- F** 2.40 ≥ EER > 2.20
- G** 2.20 ≥ EER

HEATING mode energy efficiency class for the unit

- A** 3.60 < COP
- B** 3.60 ≥ COP > 3.40
- C** 3.40 ≥ COP > 3.20
- D** 3.20 ≥ COP > 2.80
- E** 2.80 ≥ COP > 2.60
- F** 2.60 ≥ COP > 2.40
- G** 2.40 ≥ COP

These classifications apply to split and multi-split air-cooled air conditioners.



Sharp's units for Europe comply with European regulations that guarantee the safety of the product.



Sharp Corporation is participating in the EUROVENT Certification Programme with the products listed in the EUROVENT Directory of Certified Products. Note that 3-room and 4-room multi-split air conditioners are not in the scope of the EUROVENT certification.

Capacity Table

* When the Multi inverter type is used to operate two or more indoor units simultaneously, the capacity of each indoor unit may be lower than that when operating only one indoor unit. Be sure to refer to the capacity table to select the appropriate models.

Indoor units		7 AY-XPC7JHR, AY-XPC7JR, GS-XPM7FR
9 AY-XPC9JHR, AY-XPC9JR, GS-XPM9FR, GS-XPM9FGR		12 AY-XPC12JHR, AY-XPC12JR, GS-XPM12FR, GS-XPM9FGR
18 AY-XPC18LR, GS-XPM18FGR		

2-indoor units with AE-X2M14LR

Operating status	Indoor unit combination		Cooking capacity (kW)			Heating capacity (kW)			Power input (W) Rating (min.-Max.)		
	A	B	A	B	Rating (min.-Max.)	A	B	Rating (min.-Max.)	Cool	Heat	
2-indoor unit operation	12	9	2.17	1.63	3.8 (1.8-4.3)	2.51	1.89	4.4 (1.9-5.4)	900 (350-1,160)	950 (370-1,300)	
	12	7	2.40	1.40	3.8 (1.8-4.3)	2.78	1.62	4.4 (1.9-5.4)	900 (350-1,160)	950 (370-1,300)	
	9	9	1.90	1.90	3.8 (1.8-4.3)	2.20	2.20	4.4 (1.9-5.4)	900 (350-1,160)	950 (370-1,300)	
	9	7	2.14	1.66	3.8 (1.8-4.3)	2.48	1.93	4.4 (1.9-5.4)	900 (350-1,160)	950 (370-1,300)	

* When connected indoor unit is not in operation.

2-indoor units with AE-X2M18KR

Operating status	Indoor unit combination		Cooking capacity (kW)			Heating capacity (kW)			Power input (W) Rating (min.-Max.)		
	A	B	A	B	Rating (min.-Max.)	A	B	Rating (min.-Max.)	Cool	Heat	
2-indoor unit operation	12	12	2.60	5.2 (1.8-6.0)	2.90	2.90	5.8 (1.9-7.3)	1,530 (350-2,050)	1,450 (370-2,100)		
	12	9	2.97	2.23	5.2 (1.8-6.0)	3.31	2.49	5.8 (1.9-7.3)	1,530 (350-2,050)	1,450 (370-2,100)	
	12	7	3.28	1.92	3.8 (1.8-6.0)	3.66	2.14	5.8 (1.9-7.3)	1,530 (350-2,050)	1,450 (370-2,100)	
	9	9	2.60	2.60	3.8 (1.8-6.0)	2.90	2.90	5.8 (1.9-7.3)	1,530 (350-2,050)	1,450 (370-2,100)	
	9	7	2.64	2.06	3.8 (1.8-5.6)	3.04	2.96	5.4 (1.9-7.0)	1,340 (350-1,830)	1,310 (370-2,030)	

* When connected indoor unit is not in operation.

3-indoor units with AE-X3M18JR

Operating status	Indoor unit combination			Cooling capacity (kW)				Heating capacity (kW)				Power input (W) Rating (Min.-Max.)	
	A	B	C	A	B	C	Rating (Min.-Max.)	A	B	C	Rating (Min.-Max.)	Cool	Heat
3-indoor unit operation	12	9	9	2.08	1.56	1.56	5.2 (2.2-7.2)	2.72	2.04	2.04	6.8 (2.2-8.4)	1,410 (430-2,560)	1,660 (420-2,480)
	12	9	7	2.23	1.67	1.30	5.2 (2.2-7.2)	2.91	2.19	1.70	6.8 (2.2-8.4)	1,410 (430-2,560)	1,660 (420-2,480)
	12	7	7	2.40	1.40	1.40	5.2 (2.2-7.2)	3.14	1.83	1.83	6.8 (2.2-8.4)	1,410 (430-2,560)	1,660 (420-2,480)
	9	9	9	1.73	1.73	1.73	5.2 (2.2-7.2)	2.27	2.27	2.27	6.8 (2.2-8.4)	1,410 (430-2,560)	1,660 (420-2,480)
	9	9	7	1.87	1.87	1.46	5.2 (2.2-7.2)	2.45	2.45	1.90	6.8 (2.2-8.4)	1,410 (430-2,560)	1,660 (420-2,480)
	9	7	7	2.03	1.58	1.58	5.2 (2.2-7.2)	2.66	2.07	2.07	6.8 (2.2-8.4)	1,410 (430-2,560)	1,660 (420-2,480)
	7	7	7	1.73	1.73	1.73	5.2 (2.2-7.0)	2.27	2.27	2.27	6.8 (2.2-8.4)	1,410 (430-2,460)	1,660 (420-2,480)
2-indoor unit operation	12	12	-	2.50	2.50	-	5.0 (1.9-6.5)	3.35	3.35	-	6.7 (1.6-8.0)	1,400 (350-2,400)	1,970 (380-2,670)
	12	9	*	2.86	2.14	*	5.0 (1.9-6.5)	3.83	2.87	*	6.7 (1.6-8.0)	1,400 (350-2,400)	1,970 (380-2,670)
	12	7	*	3.16	1.84	*	5.0 (1.9-6.4)	4.17	2.43	*	6.6 (1.6-8.0)	1,400 (350-2,380)	1,970 (380-2,670)
	9	9	*	2.45	2.45	*	4.9 (1.9-6.2)	3.10	3.10	*	6.2 (1.6-8.0)	1,380 (350-2,200)	1,800 (380-2,670)
1-indoor unit operation	9	7	*	2.53	1.97	*	4.5 (1.9-5.7)	3.15	2.45	*	5.6 (1.6-7.3)	1,190 (350-1,870)	1,550 (380-2,670)
	7	7	*	2.00	2.00	*	4.0 (1.9-5.2)	2.50	2.50	*	5.0 (1.6-6.4)	1,000 (350-1,550)	1,320 (380-1,910)
	12	*	*	3.40	*	*	3.4 (1.4-4.0)	4.00	*	*	4.0 (1.4-5.2)	950 (320-1,350)	1,400 (330-2,150)
	9	*	*	2.60	*	*	2.6 (1.4-3.3)	3.00	*	*	3.0 (1.4-4.2)	680 (320-950)	970 (330-1,570)
	7	*	*	2.00	*	*	2.0 (1.4-2.7)	2.40	*	*	2.4 (1.4-3.3)	520 (320-710)	720 (330-1,130)

* When connected indoor unit is not in operation.

4-indoor units with AE-XM24HR

Operating status	Indoor unit combination				Cooling capacity (kW)				Heating capacity (kW)				Power input (W) Rating (Min.-Max.)			
	A	B	C	D	A	B	C	D	Rating (Min.-Max.)	A	B	C	D	Rating (Min.-Max.)	Cool	Heat
4-indoor unit operation	12	12	7	7	2.21	2.21	1.29	1.29	7.0 (3.0-8.2)	2.53	2.53	1.47	1.47	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	12	9	9	9	2.15	1.62	1.62	1.62	7.0 (3.0-8.2)	2.46	1.85	1.85	1.85	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	12	9	9	7	2.27	1.70	1.70	1.32	7.0 (3.0-8.2)	2.59	1.95	1.95	1.51	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	12	9	7	7	2.40	1.80	1.40	1.40	7.0 (3.0-8.2)	2.74	2.06	1.60	1.60	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	12	7	7	7	2.55	1.48	1.48	1.48	7.0 (3.0-8.2)	2.91	1.70	1.70	1.70	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	9	9	9	9	1.75	1.75	1.75	1.75	7.0 (3.0-8.2)	2.00	2.00	2.00	2.00	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	9	9	9	7	1.85	1.85	1.44	1.44	7.0 (3.0-8.2)	2.12	2.12	1.65	1.65	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
3-indoor unit operation	9	7	7	7	1.97	1.97	1.53	1.53	7.0 (3.0-8.2)	2.25	2.25	1.75	1.75	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	9	7	7	7	2.10	1.63	1.63	1.63	7.0 (3.0-8.2)	2.40	1.87	1.87	1.87	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	7	7	7	7	1.75	1.75	1.75	1.75	7.0 (3.0-8.2)	2.00	2.00	2.00	2.00	8.0 (3.0-9.2)	2,180 (600-2,980)	2,000 (560-2,560)
	12	12	12	-	2.27	2.27	2.27	-	6.8 (2.7-7.4)	2.60	2.60	2.60	-	7.8 (2.4-8.8)	2,200 (630-2,900)	2,500 (520-2,650)
2-indoor unit operation	12	12	9	*	2.47	2.47	1.85	-	6.8 (2.7-7.4)	2.84	2.84	2.13	-	7.8 (2.4-8.8)	2,200 (630-2,900)	2,500 (520-2,650)
	12	9	9	*	2.72	2.04	2.04	*	6.8 (2.7-7.4)	3.12	2.34	2.34	*	7.8 (2.4-8.8)	2,200 (630-2,900)	2,500 (520-2,650)
	12	9	7	*	2.91	2.19	1.70	*	6.8 (2.7-7.4)	3.30	2.50	2.00	*	7.8 (2.4-8.8)	2,200 (630-2,900)	2,500 (520-2,650)
	12	7	7	*	3.14	1.83	1.83	*	6.8 (2.7-7.4)	3.60	2.10	2.10	*	7.8 (2.4-8.8)	2,200 (630-2,900)	2,500 (520-2,650)
1-indoor unit operation	9	9	7	*	2.45	2.45	1.90	*	6.8 (2.7-7.4)	2.80	2.80	2.20	*	7.8 (2.4-8.8)	2,200 (630-2,900)	2,500 (520-2,650)
	9	7	7	*	2.50	1.95	1.95	*	6.8 (2.7-7.4)	3.10	2.40	2.40	*	7.8 (2.4-8.8)	2,200 (630-2,900)	2,500 (520-2,650)
	7	7	7	*	1.97	1.97	1.97	*	5.9 (2.7-7.3)	2.40	2.40	2.40	*	7.8 (2.4-8.8)	1,750 (630-2,760)	2,180 (520-2,650)
	12	12	*	-	2.80	2.80	*	-	5.6 (2.0-6.8)	3.65	3.65	*	-	7.8 (1.8-7.5)	1,820 (430-2,700)	2,400 (450-2,600)
2-indoor unit operation	12	9	*	*	3.20	2.40	*	*	5.6 (2.0-6.8)	4						

Inverter. Multi Type

Capacity Table

* When the Multi inverter type is used to operate two or more indoor units simultaneously, the capacity of each indoor unit may be lower than that when operating only one indoor unit. Be sure to refer to the capacity table to select the appropriate models.

Indoor units	7 AY-XPC7JHR, AY-XPC7JR, GS-XPM7FR
9 AY-XPC9JHR, AY-XPC9JR, GS-XPM9FR, GS-XPM9FGR	
12 AY-XPC12JHR, AY-XPC12JR, GS-XPM12FR, GS-XPM12FGR	
18 AY-XPC18LR, GS-XPM18FGR	

4-indoor units with AE-XM30GR

Operating status	Indoor unit combination				Cooling capacity (kW)					Heating capacity (kW)					Power input (W)	Rating (Min.-Max.)
	A	B	C	D	A	B	C	D	Rating (Min.-Max.)	A	B	C	D	Rating (Min.-Max.)		
4-indoor unit operation	18	12	9	9	3.15	2.10	1.58	1.58	8.4 (4.3-9.0)	3.38	2.25	1.69	1.69	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	12	9	7	3.29	2.19	1.64	1.28	8.4 (4.3-9.0)	3.52	2.35	1.76	1.37	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	12	7	7	3.44	2.29	1.34	1.34	8.4 (4.3-9.0)	3.68	2.45	1.43	1.43	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	9	9	9	3.36	1.68	1.68	1.68	8.4 (4.3-9.0)	3.60	1.80	1.80	1.80	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	9	9	7	3.52	1.76	1.76	1.37	8.4 (4.3-9.0)	3.77	1.88	1.88	1.47	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	9	7	7	3.69	1.84	1.43	1.43	8.4 (4.3-9.0)	3.95	1.98	1.54	1.54	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	7	7	7	3.88	1.51	1.51	1.51	8.4 (4.3-9.0)	4.15	1.62	1.62	1.62	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	12	12	12	2.10	2.10	2.10	2.10	8.4 (4.3-9.0)	2.25	2.25	2.25	2.25	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	12	12	9	2.24	2.24	2.24	1.68	8.4 (4.3-9.0)	2.40	2.40	1.80	1.80	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	12	9	9	2.40	2.40	1.80	1.80	8.4 (4.3-9.0)	2.57	2.57	1.93	1.93	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	12	9	7	2.52	2.52	1.89	1.47	8.4 (4.3-9.0)	2.70	2.70	2.03	1.58	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	12	7	7	2.65	2.65	1.55	1.55	8.4 (4.3-9.0)	2.84	2.84	1.66	1.66	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	9	9	9	2.58	1.94	1.95	1.94	8.4 (4.3-9.0)	2.77	2.08	2.08	2.08	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	9	9	7	2.73	2.04	2.04	1.59	8.4 (4.3-9.0)	2.92	2.19	2.19	1.70	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	9	7	7	2.88	2.16	1.68	1.68	8.4 (4.3-9.0)	3.09	2.31	1.80	1.80	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	9	7	3.06	1.78	1.78	1.78	8.4 (4.3-9.0)	3.27	2.91	1.91	1.91	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)	
	9	9	9	9	2.10	2.10	2.10	2.10	8.4 (4.3-9.0)	2.25	2.25	2.25	2.25	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	9	9	9	7	2.22	2.22	2.22	1.74	8.4 (4.3-9.0)	2.38	2.38	1.85	1.85	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	9	9	7	7	2.36	2.36	1.84	1.84	8.4 (4.3-9.0)	2.53	2.53	1.97	1.97	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	9	7	7	7	2.52	1.96	1.96	1.96	8.4 (4.3-9.0)	2.70	2.10	2.10	2.10	9.0 (4.4-10.6)	2,990 (1,070-3,490)	2,400 (940-3,060)
	7	7	7	7	2.00	2.00	2.00	2.00	8.0 (4.3-9.0)	2.13	2.13	2.13	2.13	8.5 (4.4-9.8)	2,780 (1,070-3,490)	2,230 (940-2,850)
3-indoor unit operation	18	12	—	—	3.56	2.37	2.37	—	8.3 (4.3-8.7)	3.81	2.54	2.54	—	8.9 (4.4-10.5)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	12	9	*	3.83	2.55	1.92	*	8.3 (4.3-8.8)	4.11	2.74	2.05	*	8.9 (4.4-10.5)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	12	7	*	4.04	2.69	1.57	*	8.3 (4.3-8.9)	4.33	2.89	1.68	*	8.9 (4.4-10.5)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	9	*	*	4.15	2.08	2.08	*	8.3 (4.3-8.9)	4.45	2.33	2.33	*	8.9 (4.4-10.5)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	9	7	*	4.39	2.20	1.71	*	8.3 (4.3-8.9)	4.71	2.36	1.83	*	8.9 (4.4-10.5)	2,990 (1,070-3,490)	2,400 (940-3,060)
	18	7	7	*	4.67	1.82	1.80	*	8.3 (4.3-8.9)	5.01	1.95	1.96	*	8.9 (4.4-10.5)	2,990 (1,070-3,490)	2,400 (940-3,060)
	12	12	7	*	3.00	3.00	1.80	*	7.8 (3.6-8.4)	3.40	3.40	2.00	*	8.8 (3.6-10.0)	2,990 (880-3,300)	2,650 (830-3,150)
	12	9	9	*	3.20	2.30	2.30	*	7.8 (3.6-8.4)	3.60	2.60	2.60	*	8.8 (3.6-10.0)	2,990 (880-3,300)	2,650 (830-3,150)
	12	9	7	*	3.30	2.40	1.90	*	7.6 (3.6-8.4)	3.80	2.80	2.20	*	8.8 (3.6-10.0)	2,800 (880-3,300)	2,650 (830-3,150)
	12	7	7	*	3.40	1.90	1.90	*	7.2 (3.6-8.4)	3.90	2.30	2.30	*	8.5 (3.6-10.0)	2,550 (880-3,300)	2,500 (830-3,150)
	9	9	9	*	2.50	2.50	2.50	*	7.4 (3.6-8.4)	2.90	2.90	2.90	*	8.5 (3.6-10.0)	2,650 (880-3,300)	2,650 (830-3,150)
2-indoor unit operation	9	9	7	*	2.50	2.50	2.00	*	7.0 (3.6-8.4)	3.00	3.00	2.20	*	8.5 (3.6-10.0)	2,400 (880-3,300)	2,400 (830-3,150)
	9	7	7	*	2.60	2.00	2.00	*	6.6 (3.6-8.2)	3.00	2.40	2.40	*	7.8 (3.6-9.0)	2,160 (880-3,200)	2,150 (830-2,990)
	7	7	7	*	2.00	2.00	2.00	*	6.0 (3.6-7.8)	2.40	2.40	2.40	*	7.1 (3.6-8.8)	1,920 (880-3,100)	1,870 (830-2,660)
	18	12	*	*	4.56	3.04	*	*	7.6 (3.6-8.0)	4.86	3.24	*	*	8.1 (3.6-9.0)	2,990 (880-3,400)	2,450 (830-3,300)
	18	9	*	*	4.80	2.40	*	*	7.2 (3.6-8.0)	5.40	2.70	*	*	8.1 (3.6-9.0)	2,600 (880-3,400)	2,450 (830-3,300)
	18	7	*	*	4.90	1.90	*	*	6.8 (3.6-8.0)	5.54	2.16	*	*	7.7 (3.6-9.0)	2,350 (880-3,400)	2,200 (830-3,300)
	12	12	*	*	3.10	3.10	*	*	6.2 (2.6-7.5)	3.80	3.80	*	*	7.6 (2.6-8.0)	2,250 (700-3,700)	2,600 (730-2,900)
1-indoor unit operation	12	9	*	—	3.20	2.40	*	*	5.6 (2.6-7.1)	3.80	2.90	*	*	6.7 (2.6-8.0)	1,950 (700-3,200)	2,250 (730-2,900)
	12	7	*	*	3.30	2.00	*	*	5.3 (2.6-6.8)	3.90	2.20	*	*	6.1 (2.6-8.0)	1,720 (700-2,770)	1,900 (730-2,900)
	79	9	*	*	2.50	2.50	*	*	5.0 (2.6-6.3)	2.90	2.90	*	*	5.8 (2.6-8.0)	1,630 (700-2,600)	1,850 (730-2,900)
	9	7	*	*	2.60	2.00	*	*	4.6 (2.6-5.9)	3.00	2.30	*	*	5.3 (2.6-7.3)	1,400 (700-2,250)	1,510 (730-2,400)
	7	7	*	*	2.00	2.00	*	*	4.0 (2.6-5.3)	2.40	2.40	*	*	4.8 (2.6-6.4)	1,200 (700-1,900)	1,350 (730-2,000)
1-indoor unit operation	18	*	*	*	5.00	*	*	*	5.0 (2.6-5.7)	5.00	*	*	*	6.2 (2.6-7.4)	1,600 (700-2,400)	2,200 (730-3,000)
	12	*	*	*	3.40	*	*	*	3.4 (1.8-4.0)	3.80	*	*	*	3.8 (1.8-5.2)	1,100 (630-1,450)	1,600 (640-2,200)
	9	*	*	*	2.60	*	*	*	2.6 (1.8-3.3)	2.90	*	*	*	2.9 (1.8-4.0)	790 (630-1,080)	1,130 (640-1,750)
	7	*	*	*	2.00	*	*	*	2.0 (1.8-2.7)	2.40	*	*	*	2.4 (1.8-3.4)	750 (630-850)	870 (640-1,350)

*1 Rating conditions

Standard: EN 14511, 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

20°C D.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40

* When connected indoor unit is not in operation.

— When no unit is connected.

Inverter. Duct & Cassette Type

Duct

| GB-X18JR | GB-X24JR | GB-X36JR

R410A



GB-X18JR



Wired controller
Remote controller

Features

- Compact design for easy installation
- Low noise level
- Drain pump with 1,100 mm lift head (for GB-X24JR)
- Wired control
- Wireless remote control
- Energy save setting
- Sleep function

Outdoor unit



GU-X18JR



GU-X24JR

Specifications

Model	Indoor		GB-X18JR	GB-X24JR	GB-X36JR
	Outdoor		GU-X18JR	GU-X24JR	GU-X36JR*3
Capacity *1	Cool (Min.-Max.)	kW	5.0 (1.54-5.0)	7.0 (1.55-7.0)	10.0 (3.48-10.0)
	Heat (Min.-Max.)	kW	5.8 (1.24-5.8)	8.0 (1.22-8.0)	12.0 (3.62-12.0)
Power supply	V-Ph-Hz		220-240 V-Single-50 Hz		
Running current *1	Cool/Heat	A	8.30/7.90	13.20/12.20	17.50/19.10
Power input *1	Cool	kW	1.57(0.45-1.57)	2.41(0.74-2.41)	3.5(1.68-3.5)
	Heat	kW	1.53(0.46-1.53)	2.28(0.70-2.28)	3.8(1.60-3.8)
Rated input (Max) *1 *2	Cool/Heat	w	2,200/2,600	3,200/3,500	4,600/5,700
EER (Cool)/COP (Heat) *1			3.2/3.8	2.90/3.51	2.86/2.16
Energy efficiency class *1	Cool/Heat	B/A	C/B	C/D	
	Annual energy consumption	kWh/h	785	1,205	1,750
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB (A)	42/38	44/40	48/44
	Outdoor	dB (A)	56	59	62
Airflow volume	Indoor	m³/min.	14	23.3	33.3
External static pressure		Pa	60-40	80-60	150-100
Dimensions (W x H x D)	Indoor	mm	1,012 x 266 x 736	1,272 x 266 x 504	1,251 x 290 x 744
	Outdoor	mm	848 x 540 x 320	913 x 680 x 378	1,032 x 1,250 x 412
Net weight	Indoor	kg	36	37	57
	Outdoor	kg	36	51	128
Pipe diameter	Liquid side	inch	1/4	3/8	1/2
	Gas side	inch	1/2	5/8	3/4
Min-Max pipe length	m		5-20	5-30	5-50
Maximum chargeless length	m		5	5	5
Maximum height difference	m		15	15	30
Refrigerant			R-410A		
Operating range (Outdoor)	Cool	°C		21-43	
	Heat	°C		-7-24	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

20°C D.B. (Heating)

35°C D.B. 24°C W.B. (Cooling)

7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

*3 Only limited quantity is available.

Cassette

| GX-X18JR | GX-X24JR | GX-X36JR

R410A



GX-X24JR



Wired controller
Remote controller



GU-X18JR

GU-X24JR

Specifications

Model	Indoor		GX-X18JR	GX-X24JR	GX-X36JR
	Panel frame	Outdoor	AZ-X18J	AZ-X24J	AZ-X24J
		GU-X18JR	GU-X24JR	GU-X36JR*3	
Capacity *1	Cool (Min.-Max.)	kW	5.0 (1.16-5.0)	7.0 (1.73-7.0)	10.0 (4.48-10.0)
	Heat (Min.-Max.)	kW	5.8 (1.02-5.8)	8.0 (1.24-8.0)	12.0 (3.50-12.0)
Power supply	V-Ph-Hz		220-240 V-Single-50 Hz		
Running current *1	Cool/Heat	A	8.90/10.00	13.60/11.20	17.50/19.10
Power input *1	Cool	kW	1.71(0.50-1.71)	2.49(0.75-2.49)	3.5(1.68-3.5)
	Heat	kW	1.93(0.51-1.93)	2.31(0.70-2.31)	3.8(1.60-3.8)
Rated input (Max) *1 *2	Cool/Heat	w	2,200/2,600	3,200/3,500	4,600/5,700
EER (Cool)/COP (Heat) *1			2.9/3.8	2.81/3.46	2.86/3.16
Energy efficiency class *1	Cool/Heat	B/A	C/B	C/D	
	Annual energy consumption	kWh/h	855	1,245	1,750
Sound pressure level (Cool) *2	Indoor (Hi/Lo)	dB (A)	47/32	47/42	53/50
	Outdoor	dB (A)	56	59	62
Airflow volume	Indoor	m³/min.	11.3	19.7	26.7
External static pressure		Pa	600 x 230 x 600	840 x 260 x 840	840 x 320 x 840
Dimensions (W x H x D)	Indoor	mm	848 x 540 x 320	913 x 680 x 378	1,032 x 1,250 x 412
	Outdoor	mm	650 x 50 x 650	950 x 60 x 950	950 x 60 x 950
Net weight	Indoor	kg	20	30	38
	Outdoor	kg	36	51	128
Pipe diameter	Liquid side	inch	1/4	3/8	1/2
	Gas side	inch	1/2	5/8	3/4
Min-Max pipe length	m		5-20	5-30	5-50
Maximum chargeless length	m		5	5	5
Maximum height difference	m		15	15	30
Refrigerant			R-410A		
Operating range (Outdoor)	Cool	°C		21-43	
	Heat	°C		-7-24	

*1 Rating conditions

Standard: EN 14511; 230 V, 50 Hz

Inside air temperature:

27°C D.B. 19°C W.B. (Cooling)

20°C D.B. (Heating)

35°C D.B. 24°C W.B. (Cooling)

7°C D.B. 6°C W.B. (Heating)

* Heating capacity is lowered with a decrease in outdoor temperature.

* Maximum data are measured under the test conditions listed right according to EN60335-2-40.

*2 Sound pressure level is measured according to JIS C 9612.

*3 Only limited quantity is available.

Specifications

			Inverter SINGLE TYPE						
			Wall Mounted				Floor Standing	Floor/Ceiling	Wall
			Super Deluxe	Deluxe	Standard	Deluxe			
	Capacity class		2.1 kW AY-XPC7JHR	2.6 kW AY-XPC9JHR	3.5 kW AY-XPC12JHR	5.0 kW AY-XP9LSR AY-XP12LSR	7.0 kW AY-XP18LR AY-XP24LR	GS-XP9FGR GS-XP12FGR GS-XP18FGR GS-XP24FR	AY-AP9NR AY-AP12NR
	Location (page)	p. 10-11	p. 10-11	p. 10-11	p. 10-11	p. 12-13	p. 12-13	p. 12-13	p. 14-15
Operation	Energy Saving					○			
	Full Power Mode	○	○	○	○	○	○	○	
	Turbo Cooling & Heating Operation								○
	Lower Room Temperature Setting (from 18°C)	○	○	○	○	○	○	○	○
	Computerized Dry Mode Operation	○	○	○	○	○	○	○	○
	Auto Operation Mode	○	○	○	○	○	○	○	○
	Auto & 3-Step Fan Speed Setting	○	○	○	○	○	○	○	○
	Auto Restart Function	○	○	○	○				○
	Auto Changeover						○	○	
	Winter Cool Function	○	○			○	○	○	
Airflow	Spot Air					○			
	Ultra-wide Airflow	○							
	Long Coanda Airflow System	○							
	Coanda Airflow System		○	○	○				○
	4-way Auto Air Swing					○			
	2-way Auto Air Swing	○	○	○			○	○	○
	Dual (Upper & Lower) Airflow System						○		
Control Convenience	Microcomputer Control	○	○	○	○	○	○	○	○
	LCD Wireless Remote Control	○	○	○	○	○	○	○	○
	Timer, Programmable 24-Hour ON/OFF or 12-Hour ON/OFF	○ 24H	○ 24H	○ 24H	○ 24H	○ 24H	○ 24H	○ 24H	○ 12H
	1-Hour OFF Timer	○	○	○			(1/2/3/5 hr)	○	○
	"Awaking" Function	○	○	○	○	○	○	○	○
	"Autosleep" Function	○	○	○	○	○	○	○	○
	Plasmacluster Ion	○ Twin	○	○	○	○	○	○	○
Air Quality	Anti-Mold, Detachable & Washable Air Filter	○	○	○	○	○	○	○	○
	Air Purifying Filter								
	Washable Deodorizing Filter								
Additional Features	Quiet Operation	○	○	○	○	○	○	○	○
	Self Cleaning Function	○	○	○	○				
	Dual Drain Setting	○	○	○			○	○	○
	Single/Multi Unit	○	○			18LR Only			

ON/OFF SINGLE TYPE		Inverter MULTI TYPE				
Mounted	Portable	Wall Mounted		Floor Standing	Floor/Ceiling	
Deluxe		Super Deluxe	Deluxe	Deluxe		
						
AY-AP18KR AY-AP24KR	CV-P09FR	AY-XPC7JHR AY-XPC9JHR AY-XPC12JHR	AY-XPC7JR AY-XPC9JR AY-XPC12JR	AY-XPC18LR	GS-XPM9FGR GS-XPM12FGR GS-XPM18FGR	GS-XPM7FR GS-XPM9FR GS-XPM12FR
p. 14-15	p. 14-15			p. 16-17		
		○	○	○	○	○
○	○					
○	○	○	○	○	○	○
○	○	○	○	○	○	○
○	○	○	○	○	○	○
○	○	○	○	○	○	○
○	○	○	○	○	○	○
		*Only with AE-X2M18KR or AE-X2M14LR	*Only with AE-X2M18KR or AE-X2M14LR		*Only with AE-X2M18KR or AE-X2M14LR	*Only with AE-X2M18KR or AE-X2M14LR
				○		
		○				
○			○	○		
				○		
○	○	○	○		○	○
					○	
○	○	○	○	○	○	○
1 12H	12H	24H	24H	24H	24H	24H
				(1/2/3/5 hr)		
○	○	○	○	○	○	○
○	○	○	○	○	○	○
○	○	○	○	○	○	○
○	○	Twin	○	○	○	○
○	○	○	○	○	○	○
		 Washable Deodorizing Filter	 Deodorizing Filter	 Washable Deodorizing Filter		
○	○	○	○	○	○	○
		○	○		○	

* Specifications are subject to change without prior notice due to product development.

Feature Descriptions

OPERATION



Inverter Controlled Operation

This function features a quick cooling and heating operation and decreases fluctuation in temperature and reduces power consumption.



Energy Saving

This function enables units to operate efficiently by automatically controlling the setting temperature without changing sensible temperature.



Full Power Mode

In this operation, the air conditioner works at the maximum power to rapidly cool or heat the room.



Turbo Operation

In this operation, the air conditioner fan works at "Extra-high" fan speed with a setting temperature of 15°C in COOL & DRY and 32°C in HEAT mode to rapidly cool or heat the room.



Lower Room Temperature Setting (from 18°C)

In cooling operation, room temperature can be set from 18°C.



Computerized Dry Mode Operation

The indoor fan motor and the compressor are controlled by the microcomputer to maintain room humidity without dropping the room temperature.



Auto Operation Mode

In the AUTO mode, the temperature setting and mode are automatically selected according to the room temperature.



Auto & 3-Step Fan Speed Settings

Auto fan speed and 3-step (HIGH/LOW/SOFT) manual fan speed are available.



Auto Restart Function

When power failure occurs and after power recovery, the unit will automatically restart in the same setting which was active before the power failure.



Auto Changeover

During AUTO MODE operation, the mode will automatically switch between HEAT and COOL mode to maintain a comfortable room temperature.



Winter Cool Function

Cooling operation is available during winter season down to -10°C outside temperature.

CONTROL CONVENIENCE



Microcomputer Control



LCD Wireless Remote Control



24-Hour ON/OFF Programmable Timer

The start and stop operations (hour and minute) can be set at same time.



12-Hour ON/OFF Timer



1-Hour ON/OFF Timer

When the ONE-HOUR OFF TIMER is set, the unit will automatically turn off after one hour.



"Awakening" Function

When the ON Timer is set, the unit will turn on prior to the set time to allow the room to reach the desired temperature by the programmed time.



"Auto Sleep" Function

When the OFF Timer is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively hot or cold while you sleep.

AIRFLOW



Spot Air

This function divides the room into six areas and concentrates air conditioning on one area at a time.



Ultra-wide Airflow

This function provides much wider airflows to deliver Plasmacluster Ions and cold or warm air to every corner of the room.



Long Coanda Airflow System

This function provides much longer airflows to deliver Plasmacluster Ions and cold or warm air farther from the unit.



Coanda Airflow System

This function provides warm air traveling down the wall to the floor during heating operation and cold air traveling up the ceiling during cooling operation in order to avoid direct airflow.



4-way Auto Air Swing

Automatic vertical & horizontal airflow is available in order to make the room uniformly cool or warm.



2-way Auto Air Swing

Automatic vertical airflow is available in order to make the room uniformly cool or warm.



Dual (Upper & Lower) Airflow System

Dual (Upper & Lower) Airflow System is for maintaining a comfortable room; the air outlet is selected automatically according to room conditions, such as cold or hot.

AIR QUALITY



Plasmacluster Ion

Plasmacluster Ion generator inside the indoor unit releases positive and negative Plasmacluster Ions into the room and reduces some airborne mold and viruses.



Air Purifying Filter



Deodorizing Filter



Washable Deodorizing Filter



Anti-bacterial Air Purifying Filter



Anti-Mold, Detachable & Washable Air Filter

ADDITIONAL FEATURES



Quiet Operation



Self Cleaning Function

SELF CLEAN operation provides the effect of reducing the growth of mold fungus, and dries the inside of the air conditioner unit with Plasmacluster ions.



Dual Drain Setting

Rightward and Leftward Drain hose setting is available for easy installation.



Single/Multi Unit

Units with this feature can be used singly or in a multi split system.

www.sharp-cee.com

SHARP

Sharp Electronics Eastern Europe
Handelskai 342, 1020 Vienna – Austria
Tel. +43 1 727 19

* Design and specifications are current as of May 2012, but are subject to change without prior notice.
* Actual colors may differ slightly from colors in this catalog.
* Not all models are available in all countries. Please check with your local dealer for information.