SHARP

Air Conditioners

Air Conditioners
Wall mounted
Multi Splits
Portable

Enjoy every breath
Sharp air conditioning

Plasmacluster

Plasmacluster Ion technology

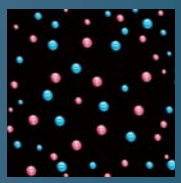
Using the same positive and negative ions that occur in nature to clean the air

Plasmacluster technology

Generates and releases the same positive and negative ions that occur in nature through plasma discharges. 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 Ion Device

The Effects of Plasmacluster Ions against Airborne Microbes

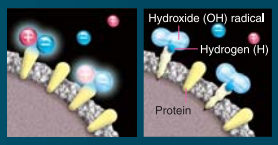


1 Release Plasmacluster ions.

Plasmacluster Ions are the same positive and negative ions found in nature. The ions are surrounded by water molecules, and are released into the air.

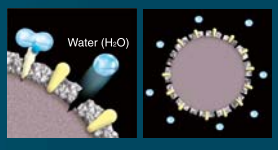
2 Attack suspended airborne microbes.

The ions form hydroxide 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.

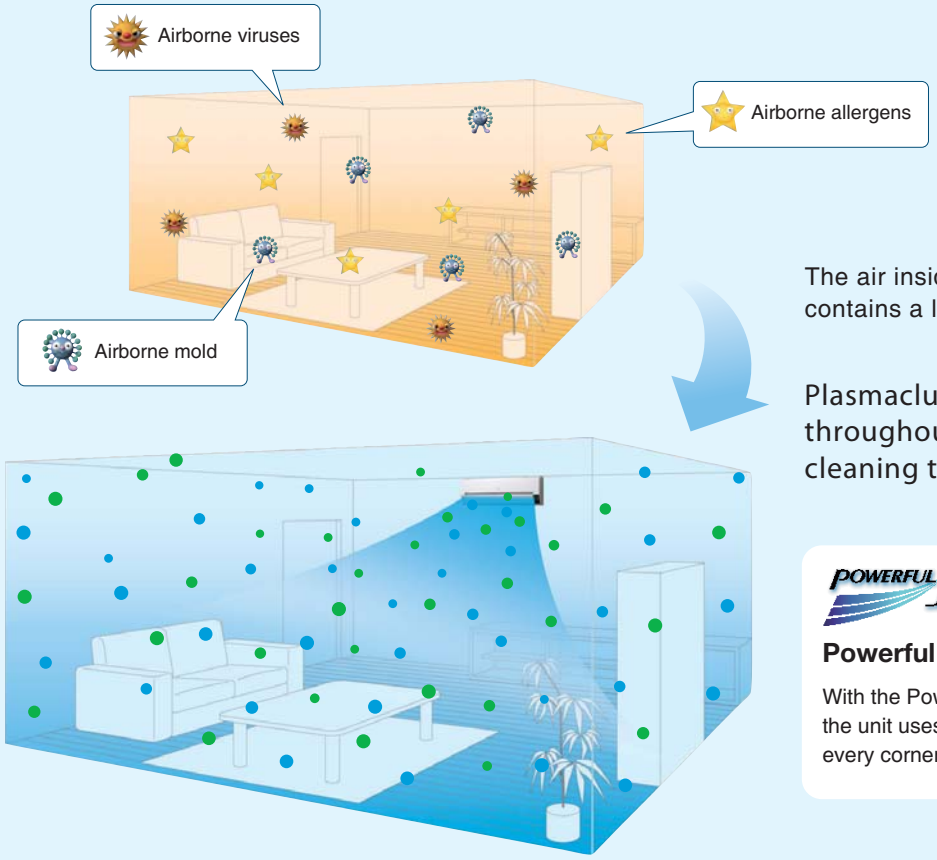


3 Return to the air as water.

The hydroxide (OH) radicals combine with hydrogen (H) to form water (H_2O) which returns to the air.



Plasmacluster Ions remove airborne contaminants and mold.



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

Plasmacluster Ions spread throughout the whole room, cleaning the air.

POWERFUL JET

Powerful "Plasmacluster Ion"

With the Powerful Jet function enabled, the unit uses strong air to deliver ions to every corner of the room.

You can count on for clean and healthy air

Proven at 13 Institutions in Japan and around the World

Test substance	Tested by:
Airborne viruses	• 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	• Retroscreen Virology, Ltd. (UK)
Airborne allergens	• Hiroshima University Graduate School of Advanced Sciences of Matter (Japan) • Osaka City University Medical School's Department of Biochemistry & Molecular Pathology (Japan)
Airborne mold	• Professor Gerhard Artmann, Aachen University of Applied Sciences (Germany) • Ishikawa Health Service Association (Japan)
Airborne microbes	• 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	• Kitasato University Kitasato Institute Medical Center Hospital (Japan)
Adhering odor	• Japan Spinners Inspecting Foundation
Adhering mold	• The University 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.

Japan

Takagi Award from the Society of Non-Traditional Technology

Kitasato Research Center of Environmental Sciences

Ishikawa Health Service Association

China

Shanghai Municipal Center for Disease Control and Prevention

Germany

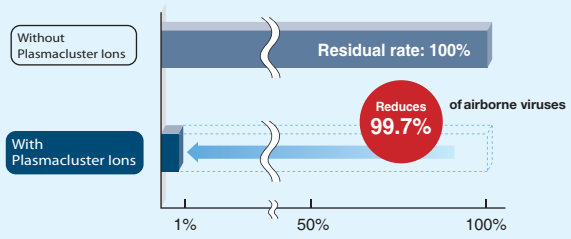
University Lübeck

USA

Harvard School of Public Health

Effective against Airborne Viruses

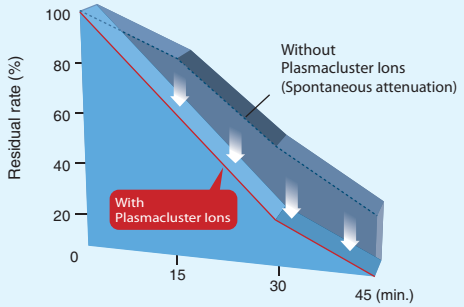
Effects on Airborne Viruses
(Actual reduction rate may differ according to roo m conditions and the model in use)



■Test method: A Plasmacluster Ion generator is placed in a 1 m^3 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 Airborne Mold Spores

Effects on Airborne Mold Spore s



■Mode of operation: Plasmacluster Ion generator single operation in an experimental room of approximately 13.0 square meters. ■Temperature inside the room: 21C, 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

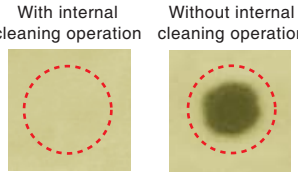
(Inverter and Super Deluxe models only)

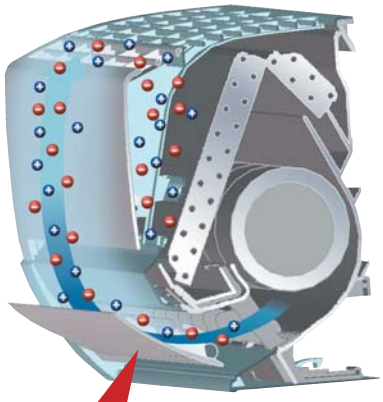
Plasmacluster Ions block the growth of mold inside the air conditioner.

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.

Test results using a visual mold senso r

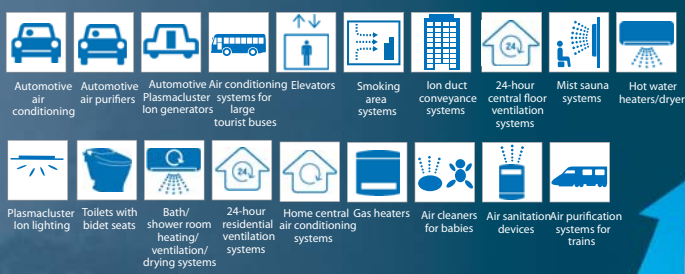




Even the inside stays clean using Plasmacluster Ions!

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:



Used in over 20 million products in 8 years

In the seven years since its release, Plasmacluster Ion-equipped products have exceeded the 20-million-unit mark. Sharp aims to bring the benefits of Plasmacluster Ions to every air space.

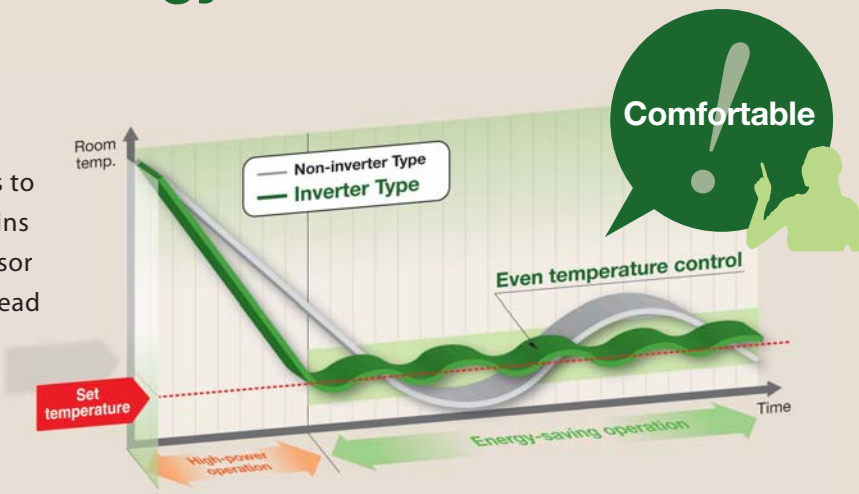
Energy Saving

Advanced technologies contribute to reduced costs and reduced burden on the environment

Efficient and comfortable temperature control

Inverter Technology

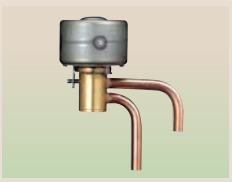
While inverter air conditioners have a full-output operation mode, they drastically reduce energy consumption when used in energy-saving operation mode. This is thanks to inverter circuitry, which modifies and maintains room temperature by switching the compressor between high and low operation modes, 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.



Saving Energy

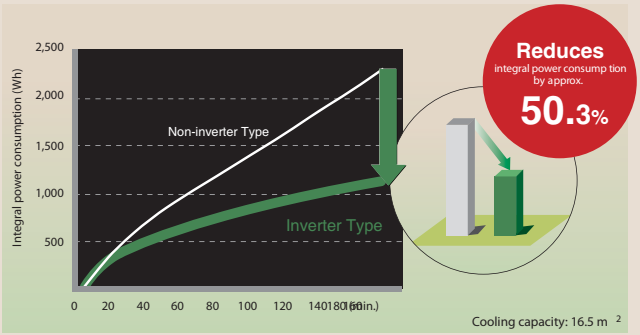
Inverter air conditioners go into energy-saving operation mode immediately once the set temperature is achieved. Sharp's inverter air conditioners reduce energy consumption to 52% of that of non-inverter models after three hours of operation, increasing performance efficiency using high-power DC motors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

Electronic Digital Control



Pulse Linear Expansion Valve

Power Consumption Comparison after Three Hours of Operation



Quick Cooling

Inverter air conditioners quickly reach the set temperature.

Even temperature control

Inverter models keep the compressor running and reduce output (rather than shutting it off) when the room has reached its target temperature. This prevents temperature fluctuation and enables comfortable and even temperature control.

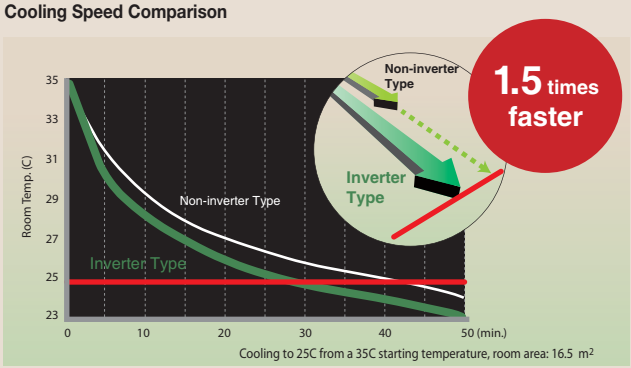
Reduced discomfort from humidity

Inverter models produce no humidity when adjusting room temperature.

Quiet operation

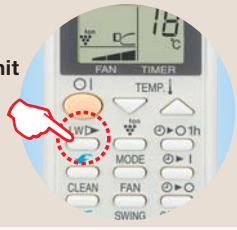
Operational noise produced when the compressor shuts down is not present with inverter models.

Cooling Speed Comparison



Instant Low Wattage Button

Pressing this button instantly switches the unit from full-power operation into energy-saving mode. Lower energy consumption can help lower your electric bill and prevent the room from becoming too cold.

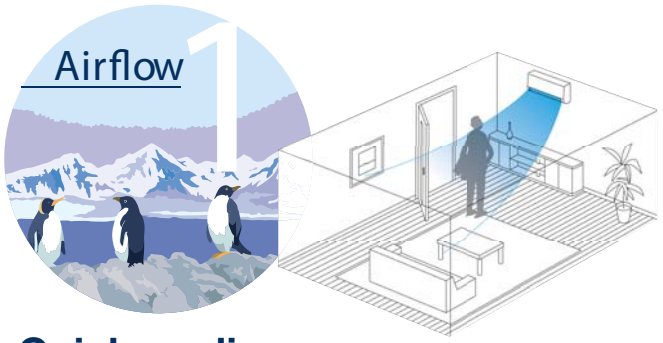


R410A refrigerant

Sharp's inverter air conditioners use R410A refrigerant and have no adverse impact on the ozone layer when in use. Sharp's inverter models contribute to environment- and people-friendly living.

Suitable Airflow

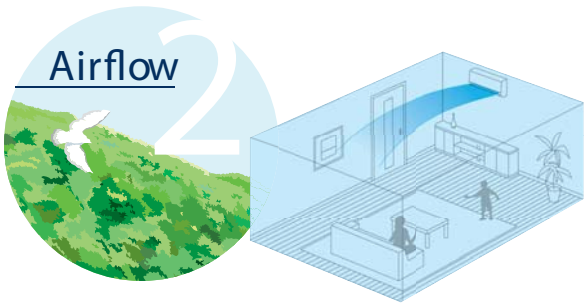
Selectable airflow control capable of creating
3 types of natural spaces in your room



Quick cooling for a refreshing experience

Powerful Jet—Strong,direct airflow that instantly cools your body down.

Powerful Jet technology cools you down quickly, offering instant relief from a hot, humid day outside or after exercise or other physical exertion. A single button delivers a cool, refreshing blast of air that revives and energizes the body.



A cool and invigor ating atmosphere

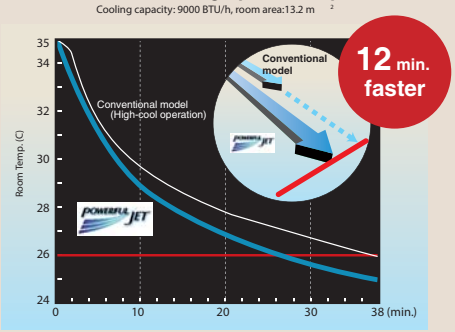
Gentle Cool Air—Soft, indirect airflow that creates comfortable living space.

The Gentle Cool Air mode sends cool air towards the ceiling instead of down towards the ground where children, expectant mothers, the elderly, or others that are susceptible to the effects of overly cold temperatures may be sitting. It also makes it easier to get a full night's rest in rooms with air conditioning installed, as the soft flow of air gently soothes you to sleep and doesn't wake you up in the middle of the night.

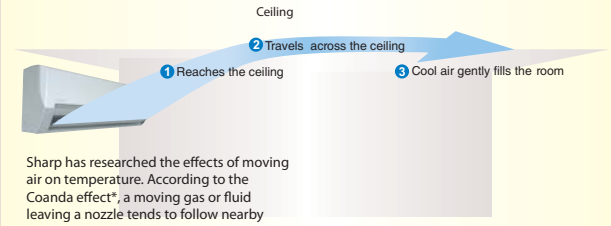
The new model reaches the set temperature approx. **30% faster** than conventional models, as shown in the graph at the right. Powerful Jet cools the room quickly, so you don 't have to wait to relax.

Powerful Jet Cooling Speed Comparison

Cooling capacity: 9000 BTU/h, room area:13.2 m



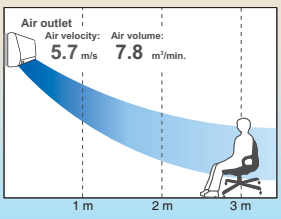
The secrets to creating a gentle, cool room environment

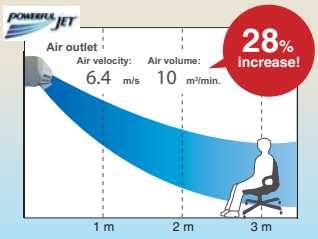


Sharp has researched the effects of moving air on temperature. According to the Coanda effect*, a moving gas or fluid leaving a nozzle tends to follow nearby surfaces, and cold air tends to move down. By delivering cold air towards the ceiling, Sharp's technicians have designed a system that cools the whole room gently and evenly.

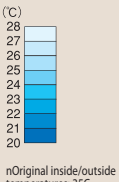
*The Coanda effect was discovered in 1930 by worldwide aerodynamicist H. M. Coanda, born in Romania in 1885.

Strong and direct air

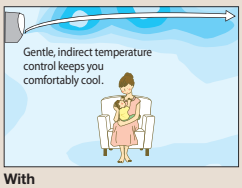




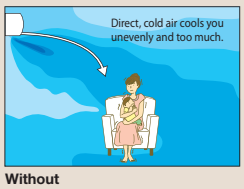
The Powerful Jet function lowers the sensible temperature even more because of the high air volume and velocity of the cool air that it produces.



nOriginal inside/outside temperatures: 35C
nTemperature distribution of the room after one hour of air conditioning
nSet temperature: 26C
nAir volume: low



With the Gentle Cool Air function



Without the Gentle Cool Air function

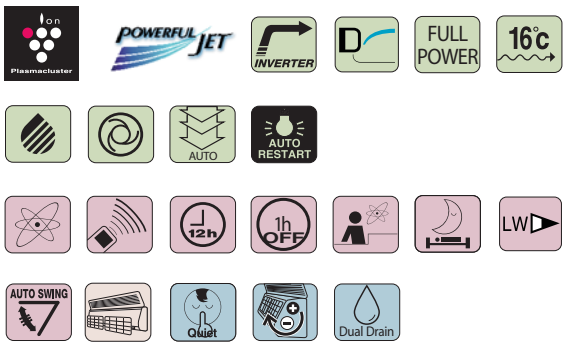
Single Type **Wall mounted**

Single Type

NEW AH-XP10/13LV

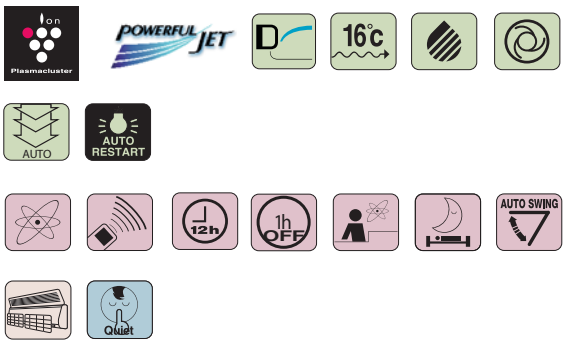
R410A

Features



NEW AH-AP18LMV/18LMT

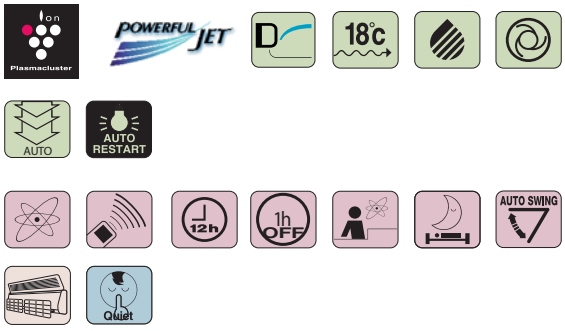
Features



Single Type

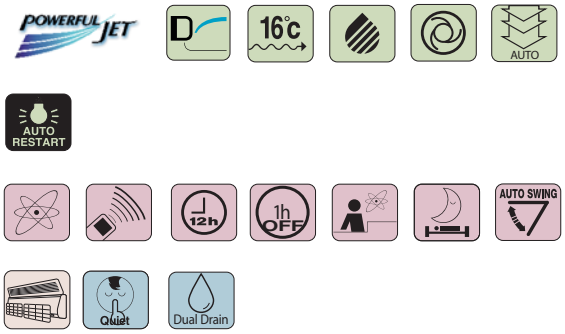
AH-AP24KMV/24LMT

Features



NEW AH-A9/12LEV/9LET/12LET

Features



Cool/Dry

Model	Cooling Operation	
	Capacity kW (Min.-Max.)	COP
AH-XP10LV	2.80 (0.90–3.28)	3.81
AH-XP13LV	3.67 (0.90–4.20)	3.63

Outdoor unit

AU-X10LV
AU-X13LV

Specifications

Model	Indoor		AH-XP10LV	AH-XP13LV
	Outdoor		AU-X10LV	AU-X13LV
Capacity *1 (Min-Max)	Cool	kW	2.80 (0.90–3.28)	3.67 (0.90 - 4.20)
Power supply		V-ph-Hz	220-240-1ø-50	220-240-1ø-50
Voltage range		V	198–264	
Running current	Cool	A	3.6	4.8
Power input	Cool	W	735	1010
COP	Cool		3.81	3.63
Sound pressure level*2	Indoor (Hi)	dB	39	39
	Outdoor	dB	45	47
Airflow volume (Cool/Indoor)		m^3/min	9.6	11.2
Dimensions (W × H × D)	Indoor	mm	860 × 292 × 205	860 × 292 × 205
	Outdoor	mm	730 × 540 × 250	730 × 540 × 250

Model	Indoor		AH-XP10LV	AH-XP13LV
	Outdoor		AU-X10LV	AU-X13LV
Net weight	Indoor	kg	8.5	9
	Outdoor	kg	27	28.5
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	

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

Cool/Dry

Model	Cooling Operation		
	Capacity		COP
	kW	BTU/h	
AH-AP18LMV /LMT	5.01	17100	2.88-2.80

Outdoor unit

AU-A18LMV/LMT

Specifications

Model	Indoor		AH-AP18LMV/T
	Outdoor		AU-A18LMV
Capacity *1	Cool	kW	5.01
Power supply		V-ph-Hz	220-240-1ø-50
Voltage range		V	198–264
Running current	Cool	A	8.2-7.8
Power input	Cool	W	1,740-1,790
COP	Cool		2.88-2.80
Sound pressure level*2	Indoor (Hi)	dB	44
	Outdoor	dB	53
Airflow volume (Cool/Indoor)		m^3/min	16.0
Dimensions (W × H × D)	Indoor	mm	1,040 × 325 × 222
	Outdoor	mm	780 × 540 × 269

Model	Indoor		AH-AP18LMV/T
	Outdoor		AU-A18LMV
Net weight	Indoor	kg	13
	Outdoor	kg	35
Pipe diameter	Liquid side	inch	1/4
	Gas side	inch	1/2
Min-Max pipe length		m	1-15
Maximum chargeless length		m	7.5
Maximum height difference		m	10
Refrigerant			R22

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

Cool/Dry

Model	Cooling Operation		
	Capacity		COP
	kW	BTU/h	
AH-AP24KMV /LMT	6.70	22900	2.79-2.68

Outdoor unit

AU-A24KV

Specifications

Model	Indoor		AH-AP24KMV/LMT
	Outdoor		AU-A24KV
Capacity *1	Cool	kW	6.70
Power supply		V-ph-Hz	220-240-1ø-50
Voltage range		V	198–264
Running current	Cool	A	11.5-11.3
Power input	Cool	W	2,400-2,500
COP	Cool		2.79-2.68
Sound pressure level*2	Indoor (Hi)	dB	44
	Outdoor	dB	54
Airflow volume (Cool/Indoor)		m^3/min	16.4
Dimensions (W × H × D)	Indoor	mm	1,040 × 325 × 222
	Outdoor	mm	890 × 645 × 290

Model	Indoor		AH-AP24KMV/LMT
	Outdoor		AU-A24KV
Net weight	Indoor	kg	14
	Outdoor	kg	54
Pipe diameter	Liquid side	inch	1/4
	Gas side	inch	5/8
Min-Max pipe length		m	1-15
Maximum chargeless length		m	7.5
Maximum height difference		m	10
Refrigerant			R22

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

Cool/Dry

Model	Cooling Operation		
	Capacity		COP
	kW	BTU/h	
AH-A9LEV/T	2.64	9000	2.93-2.84
AH-A12LEV/T	3.50	12000	3.21-3.13

Outdoor unit

AU-A9LEV

AU-A12LEV

Specifications

Model	Indoor		AH-A9LEV/T	AH-A12LEV/T
	Outdoor		AU-A9LEV	AU-A12LEV
Capacity *1	Cool	kW	2.64	3.50
Power supply		V-ph-Hz	220-240-1ø-50	
Voltage range		V	198–264	
Running current	Cool	A	4.2-4.0	5.0-4.9
Power input	Cool	W	900-930	1,090-1,120
COP	Cool		2.93-2.84	3.21-3.13
Sound pressure level*2	Indoor (Hi)	dB	38	38
	Outdoor	dB	46	48
Airflow volume (Cool/Indoor)		m^3/min	9.4	10.9
Dimensions (W × H × D)	Indoor	mm	860 × 292 × 205	860 × 292 × 198
	Outdoor	mm	598 × 495 × 265	730 × 540 × 250

Model	Indoor		AH-A9LEV/T	AH-A12LEV/T
	Outdoor		AU-A9LEV	AU-A12LEV
Net weight	Indoor	kg	8.5	9
	Outdoor	kg	22	29
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			R22	

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

Standard

CV-P13LJ

Single duct R410A

Features

- Turbo Cool Function: Powerful Airflow 8 m^3/min
- Industrial Top Class Quietness: 36 dB (low mode)
- Effective Dehumidification System: 28 L/day
- LCD Wireless Remote Control for All Operations
- Exhaust Only Mode

*A duct attachment is necessary to use this product.

Cool/Dry

Model	Cooling Operation	
	Cooling Capacity (kW)	COP
CV-P13LJ	2.12	2.41

Specifications

Model	Indoor		CV-P13LJ
	Outdoor		—
Capacity	Cool	kW	2.12
Power supply		V-ph-Hz	220-240-1ø-50
Voltage range		V	198–264
Running current	Cool	A	4.0
Power input	Cool	W	880
COP	Cool		2.41
Sound pressure level*1	Indoor (Hi)	dB	46
	Outdoor	dB	—
Airflow volume (Cool/Indoor)		m^3/min	8 (Max)
Dimensions (W × H × D)	Indoor	mm	470 × 820 × 383
	Outdoor	mm	—

Model	Indoor		CV-P13LJ
	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
		°C	

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

Inverter Multi Type

NEW 3 indoor units with AU-X3M24LV

R410A 4-Tick AL

Indoor unit	Capacity class	Model
7	2.0 kW	AH-XPC7LV
9	2.6 kW	AH-XPC9LV
12	3.4 kW	AH-XPC12LV

Outdoor unit: System 3

AU-X3M24LV

Indoor units (3 units)

Features

Plasmacluster, POWERFUL JET, INVERTER, D, FULL POWER, 16°C, AUTO, AUTO RESTART, 12h, 1h OFF, AUTO SWING, Quiet, Dual Drain

Inverter Multi Type

Cool/Dry

Example of indoor unit combinations

AU-X3M24LV

Indoor unit	Cooling Operation	
	Capacity (kW) (Min.-Max.)	COP
12 + 12 + 12	7.0 (2.3–8.9)	3.61
12 + 9 + 9	7.0 (2.3–8.9)	
9 + 9 + 9	7.0 (2.3–8.9)	

Specifications

Model	Indoor		AH-XPC12LV × 3
	Outdoor		AU-X3M24LV
Capacity *1 (Min.-Max.)	Cool	kW	7.0 (2.30-8.90)
Power supply		V-ph-Hz	230-1ø-50
Voltage range		V	207-253
Running current	Cool	A	8.6 (1.9-14.9)
Power input	Cool	W	1,940 (410-3,350)
COP	Cool		3.61
Sound pressure level*2	Indoor (Hi)	dB	39
	Outdoor	dB	48
Airflow volume (Cool/Indoor)		m^3/min	11.5 (per unit)
Dimensions (W × H × D)	Indoor	mm	860 × 292 × 205
	Outdoor	mm	850 × 710 × 330

Model	Indoor		AH-XPC12LV × 3
	Outdoor		AU-X3M24LV
Net weight	Indoor	kg	9
	Outdoor	kg	49
Pipe diameter	Liquid side	inch	1/4 × 3
	Gas side	inch	3/8 × 3
Min-Max pipe length		m	3-25 (per unit, total 60 m)
Maximum chargeless length		m	45
Maximum height difference		m	10
Refrigerant			R410A
Operating Range (Outdoor)		˚C	21–43

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

Performance of Multi Type Capacity Table

3-indoor units with AU-X3M24LV

Limiting current	Operating staus	Indoor unit combination			Cooling capacity [kW]				Running current [A]	Power Consumption (W)
		A	A	C	A	B	C	Rating (Min.–Max.)	Rating (Min.–Max.)	Rating (Min.–Max.)
Full	3-Room	12	12	12	2.33	2.33	2.33	7.0(2.3–8.9)	8.6 (1.9–14.9)	1,940 (410–3,350)
		12	12	09	2.55	2.55	1.91	7.0(2.3–8.9)	8.6 (1.9–14.9)	1,940 (410–3,350)
		12	09	09	2.80	2.10	2.10	7.0(2.3–8.9)	8.6 (1.9–14.9)	1,940 (410–3,350)
		09	09	09	2.33	2.33	2.33	7.0(2.3–8.9)	8.6 (1.9–14.9)	1,940 (410–3,350)
		12	09	07	3.00	2.25	1.75	7.0(2.3–8.9)	8.6 (1.9–14.9)	1,940 (410–3,350)
		12	07	07	3.23	1.88	1.88	7.0(2.3–8.9)	8.6 (1.9–14.9)	1,940 (410–3,350)
		09	09	07	2.52	2.52	1.96	7.0(2.3–8.9)	8.6 (1.9–14.9)	1,940 (410–3,350)
		09	07	07	2.58	2.01	2.01	6.6(2.3–8.4)	8.0 (1.9–13.1)	1,810 (410–2,950)
		07	07	07	2.07	2.07	2.07	6.2(2.3–7.8)	7.1 (1.9–11.3)	1,590 (410–2,540)
	2-Room	12	12	OFF	3.77	2.83	OFF	6.6(1.9–7.3)	8.4 (1.6–10.7)	1,900 (340–2,410)
		12	09	OFF	3.43	2.57	OFF	6.0(1.9–7.2)	7.2 (1.6–10.6)	1,630 (340–2,390)
		12	07	OFF	3.54	2.06	OFF	5.6(1.9–7.1)	6.3 (1.6–10.2)	1,430 (340–2,300)
		09	09	OFF	2.65	2.65	OFF	5.3 (1.9–6.8)	5.9 (1.6–9.3)	1,330 (340–2,100)
		09	07	OFF	2.76	2.14	OFF	4.9 (1.9–6.3)	5.1 (1.6–7.9)	1,150 (340–1,770)
		07	07	OFF	2.15	2.15	OFF	4.3 (1.9–5.7)	4.3 (1.6–6.6)	980 (340–1,480)
	1-Room	12	OFF	OFF	3.40	OFF	OFF	3.4 (1.5–4.5)	3.7(1.4–5.9)	830 (310–1,330)
		09	OFF	OFF	2.60	OFF	OFF	2.6 (1.5–3.6)	2.7(1.4–4.2)	600 (310–940)
		07	OFF	OFF	2.00	OFF	OFF	2.0 (1.5–3.0)	2.1 (1.4–3.1)	470 (310–700)
11 A	3-Room	12	12	12	2.33	2.33	2.33	7.0(2.3–7.7)	8.6 (1.9–10.9)	1,940 (410–2,460)
		12	12	09	2.55	2.55	1.91	7.0(2.3–7.7)	8.6 (1.9–10.9)	1,940 (410–2,460)
		12	09	09	2.80	2.10	2.10	7.0(2.3–7.7)	8.6 (1.9–10.9)	1,940 (410–2,460)
		09	09	09	2.33	2.33	2.33	7.0(2.3–7.7)	8.6 (1.9–10.9)	1,940 (410–2,460)
		12	09	07	3.00	2.25	1.75	7.0(2.3–7.7)	8.6 (1.9–10.9)	1,940 (410–2,460)
		12	07	07	3.23	1.88	1.88	7.0(2.3–7.7)	8.6 (1.9–10.9)	1,940 (410–2,460)
		09	09	07	2.52	2.52	1.96	7.0(2.3–7.7)	8.6 (1.9–10.9)	1,940 (410–2,460)
		09	07	07	2.58	2.01	2.01	6.6(2.3–7.7)	8.0 (1.9–10.9)	1,810 (410–2,460)
		07	07	07	2.07	2.07	2.07	6.2(2.3–7.7)	7.1 (1.9–10.9)	1,590 (410–2,460)
	2-Room	12	12	OFF	3.77	2.83	OFF	6.6(1.9–7.3)	8.4 (1.6–10.7)	1,900 (340–2,410)
		12	09	OFF	3.43	2.57	OFF	6.0(1.9–7.2)	7.2 (1.6–10.6)	1,630 (340–2,390)
		12	07	OFF	3.54	2.06	OFF	5.6(1.9–7.1)	6.3 (1.6–10.2)	1,430 (340–2,300)
		09	09	OFF	2.65	2.65	OFF	5.3 (1.9–6.8)	5.9 (1.6–9.3)	1,330 (340–2,100)
		09	07	OFF	2.76	2.14	OFF	4.9 (1.9–6.3)	5.1 (1.6–7.9)	1,150 (340–1,770)
		07	07	OFF	2.15	2.15	OFF	4.3 (1.9–5.7)	4.3 (1.6–6.6)	980(340–1,480)
	1-Room	12	OFF	OFF	3.40	OFF	OFF	3.4 (1.5–4.5)	3.7(1.4–5.9)	830 (310–1,330)
		09	OFF	OFF	2.60	OFF	OFF	2.6 (1.5–3.6)	2.7(1.4–4.2)	600 (310–940)
		07	OFF	OFF	2.00	OFF	OFF	2.0 (1.5–3.0)	2.1 (1.4–3.1)	470 (310–700)
8.5 A	3-Room	12	12	12	2.30	2.30	2.30	6.9(2.3–6.9)	8.4 (1.9–8.4)	1,900 (410–1,900)
		12	12	09	2.51	2.51	1.88	6.9(2.3–6.9)	8.4 (1.9–8.4)	1,900 (410–1,900)
		12	09	09	2.76	2.07	2.07	6.9(2.3–6.9)	8.4 (1.9–8.4)	1,900 (410–1,900)
		09	09	09	2.30	2.30	2.30	6.9(2.3–6.9)	8.4 (1.9–8.4)	1,900 (410–1,900)
		12	09	07	2.96	2.22	1.73	6.9(2.3–6.9)	8.4 (1.9–8.4)	1,900 (410–1,900)
		12	07	07	3.18	1.86	1.86	6.9(2.3–6.9)	8.4 (1.9–8.4)	1,900 (410–1,900)
		09	09	07	2.48	2.48	1.93	6.9(2.3–6.9)	8.4 (1.9–8.4)	1,900 (410–1,900)
		09	07	07	2.58	2.01	2.01	6.6(2.3–6.9)	8.0 (1.9–8.4)	1,810 (410–1,900)
		07	07	07	2.07	2.07	2.07	6.2(2.3–6.9)	7.1 (1.9–8.4)	1,590 (410–1,900)
	2-Room	12	12	OFF	3.77	2.83	OFF	6.6(1.9–6.6)	8.4 (1.6–8.4)	1,900 (340–1,900)
		12	09	OFF	3.43	2.57	OFF	6.0(1.9–6.6)	7.2 (1.6–8.4)	1,630 (340–1,900)
		12	07	OFF	3.54	2.06	OFF	5.6(1.9–6.6)	6.3 (1.6–8.4)	1,430 (340–1,900)
		09	09	OFF	2.65	2.65	OFF	5.3 (1.9–6.6)	5.9 (1.6–8.4)	1,330 (340–1,900)
		09	07	OFF	2.76	2.14	OFF	4.9 (1.9–6.3)	5.1 (1.6–7.9)	1,150 (340–1,770)
		07	07	OFF	2.15	2.15	OFF	4.3 (1.9–5.7)	4.3 (1.6–6.6)	980(340–1,480)
	1-Room	12	OFF	OFF	3.40	OFF	OFF	3.4 (1.5–4.5)	3.7(1.4–5.9)	830 (310–1,330)
		09	OFF	OFF	2.60	OFF	OFF	2.6 (1.5–3.6)	2.7(1.4–4.2)	600 (310–940)
		07	OFF	OFF	2.00	OFF	OFF	2.0 (1.5–3.0)	2.1 (1.4–3.1)	470 (310–700)

Feature Descriptions

Operation

Inverter Controlled Operation
This function features quick cooling operation and decreases fluctuation in temperature and reduces power consumption.

Powerful Jet
In this operation, the air conditioner delivers incredibly strong and cool air to cool the room instantly.

Gentle Cool Air System
This function provides cold air traveling up the ceiling during cooling operation in order to avoid direct air flow.

Low Wattage Type
Larger evaporators and condensers enable these models to operate with greater energy efficiency.

Full Power Mode
In this operation, the air conditioner works at the maximum power to rapidly cool the room.

Turbo Operation
In this operation, the air conditioner works at "Extra-high" speed to cool the room quickly.

Lower Room Temperature Setting (from 16˚C)
In cooling operation, room temperature can be set from 16C.

Lower Room Temperature Setting (from 18˚C)
In cooling operation, room temperature can be set from 18C.

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.

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.

Control Convenience

Microcomputer Control

LCD Wireless Remote Control

24-Hour ON/OFF Programmable Timer
The start or stop operation (hour and minute) can be set at same time.

12-Hour ON/OFF Timer

1-Hour 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.

Instant Low Wattage Button
Pressing this button before the room temperature reaches the set temperature instantly puts the unit into low-power mode.

4-way Auto Air Swing
Automatic vertical & horizontal airflow is available in order to make the room uniformly cool.

Auto Swing Louver
Automatic vertical airflow is available in order to make the room uniformly cool.

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.

Anti-Mold, Detachable & Washable Air Filter

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

* Design and specifications are current as of March 2010, but are subject to change without prior notice.
* Actual colors may differ slightly from colors in this catalog.

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