

SHARP

DUCTLESS BI-BLOCK
WALL UNIT



ECOLOGICALLY RESPONSIBLE
WITH UNRIVALED PERFORMANCE

CU SERIES

12 000 BTU/H

15 000 BTU/H

18 000 BTU/H

24 000 BTU/H



Réfrigérant R32 | Environmentally friendly



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

Models Number	AY-XPC12CU AHRI: 217512740 ENERGY STAR: 4,439,339	AY-XP15CU AHRI: 217512734 ENERGY STAR: 4,439,336	AY-XPC18CU AHRI: 217508915 ENERGY STAR: 4,510,266	AY-XP24CU AHRI: 217508895 ENERGY STAR: 4,510,268
		AHRI: 217508926 ENERGY STAR: 4,437,576	AY-XPC18CU-B AHRI: 217508914 ENERGY STAR: 4,510,267	
Air conditioning Capacity (Btu/h)	12 000	15 000	18 000	22,000
Air conditioning Min - Max (Bth/h)	2 800 - 13 600	5 000 - 17 000	6 000 - 21 600	6 000 - 24 000
Heating Capacity (Btu/h)	14,000	18 000	21 600	24 000
Heating Min - Max (Btu/h)	3 200 - 19 000	4 500 - 21 800	5 500 - 27 000	5 500 - 27 100
Max. heating @ -8.3 °C (17 °F) (Btu/h) (COP)	15 000 (2.44)	18 100 (2.21)	22 400 (2.34)	22 400 (2.34)
Max. heating @ -15 °C (5 °F) (Btu/h) (COP)	12 700 (2.1)	15 300 (2.1)	19 000 (2.2)	19 000 (2.2)
Max. heating @ -20 °C (-4 °F) (Btu/h) (COP)	10 100 (1.98)	13 200 (2.02)	15 000 (2.12)	16 400 (2.08)
Max. heating @ -25 °C (-13 °F) (Btu/h) (COP)	8 200 (1.82)	11 100 (1.88)	12 000 (1.95)	13 900 (1.91)
Max. heating @ -30 °C (-22 °F) (Btu/h) (COP)	8 000 (1.77) @ -27 °C (-17 °F)	8 900 (1.7)	9 200 (1.72)	10 500 (1.72)
EER ²		13.4	13	10
SEER ²	22	24	24	22
HSPF ² (I/V)	11	11	11	11
V, Hz, Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Maximum Fuse Size (A)	15	20	25	25
Dehumidification Pt/h	3.2	3.2	5.1	6.8
Air conditioning: Sound level (dB)	42 / 39 / 34 / 27 / 23	46 / 42 / 38 / 30 / 26	45 / 43 / 40 / 31 / 28	47 / 45 / 40 / 33 / 30
Air conditioning: Sound level (dB unit ext.)	49	49	52	53
Heating: Sound level (dB)	43 / 40 / 35 / 28 / 23	46 / 42 / 36 / 30 / 23	49 / 47 / 41 / 31 / 25	49 / 47 / 41 / 31 / 25
Heating: Sound level (dB unit ext.)	50	50	52	54
Air cond.: Air flow (ft ³ /min Sh/H/M/B/Sb)	438 / 385 / 307 / 219 / 145	636 / 558 / 441 / 328 / 251	636 / 597 / 480 / 328 / 251	674 / 636 / 519 / 367 / 290
Heating: Air flow (ft ³ /min Sh/H/M/B/Sb)	438 / 385 / 318 / 254 / 145	674 / 597 / 505 / 413 / 251	752 / 713 / 558 / 403 / 290	752 / 713 / 558 / 403 / 290
Operating range of exterior temperature: Air cond.	14 to 115°F (-10 to 46°C)	14 to 115°F (-10 to 46°C)	14 to 115°F (-10 to 46°C)	14 to 115°F (-10 to 46°C)
Operating range of exterior temperature: Heating	-17 to 75°F (-27 to 24°C)	-22 to 75°F (-30 to 24°C)	-22 to 75°F (-30 to 24°C)	-22 to 75°F (-30 to 24°C)
Pipe Diameter (Liq x Gas) (in.)	1/4 x 3/8	1/4 x 3/8	1/4 x 3/8	1/4 x 3/8
Refrigerant	R32	R32	R32	R32
Combined Max. length ft. (m)	66 (20) (pre-charge: 25')	66 (20) (pre-charge: 25')	66 (20) (pre-charge: 25')	66 (20) (pre-charge: 25')
Max. height ft. (m)	33 (10)	33 (10)	33 (10)	33 (10)
Pipe Diameter (in.)	Gas 3/8	Liquid 1/4	Gas 3/8	Liquid 1/4
Total weight lb (kg)	22 (10)	67 (30)	31 (14)	95 (43)
Dimensions: Width in.	34-39/64	30-23/32	41-27/64	30-23/32
Dimensions: Height in.	11-3/8	21-1/4	12-7/16	21-1/4
Dimensions: Depth in.	9-1/64	10-19/32	9-51/64	10-19/32
	AY-XPC12CU INDOOR	AE-X12CU OUTDOOR	AY-XP15CU AY-XP15CU-B INDOOR	AE-X15CU OUTDOOR
			AY-XPC18CU AY-XPC18CU-B INDOOR	AE-X18CU OUTDOOR
				AY-XP24CU INDOOR
				AE-X24CU OUTDOOR



Plasmacluster Technology

SHARP's unique bacteria-removing Plasmacluster Technology suppresses airborne viruses, and breaks down and removes airborne mold and other contaminants.

Plasmacluster Key Benefits

- Suppresses the activity of airborne viruses
- Suppresses the activity of airborne microbes
- Acts on both airborne and adhering mold
- Inactivates and removes airborne allergens like dust mite feces and dead dust mites
- Inactivates and removes adhering odors (like tobacco smoke)
- Removes static electricity which attracts airborne particles
- Plasmacluster is effective all year round

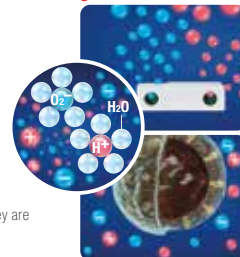


Plasmacluster's Microbe-Removing Mechanisms

1 Ions are released.

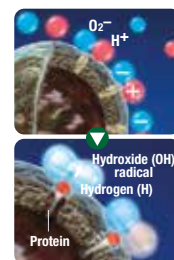
Plasmacluster Ions, the same positive and negative ions found in nature, are generated by plasma discharge and released into the air.

The ions are long-lasting^{*3} because they are surrounded by water molecules.



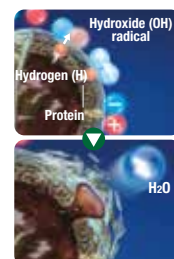
2 The ions act on airborne microbes.

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.



SHARP

SHARP "HOT GAS PIPE" system
that all condensation holes are kept without affecting energy efficiency.

« HOT GAS PIPE »
Unique to SHARP

COANDA EFFECT UP TO 50 FEET
NEVER HAVE AIR DIRECTLY ON YOU AGAIN

Download on the App Store
ANDROID APP ON Google play

Integrated SHARP Wi-Fi on all your units for greater control and convenience.

10 YEARS WARRANTY
COMPRESSOR

10 YEARS WARRANTY
PARTS

10 YEARS WARRANTY
LABOR

AUTHORIZED DEALER

• 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 results in actual room conditions. *2 The effectiveness depends on the surrounding conditions (e.g., temperature, humidity and airflow), usage time and method. *3 Verified in SHARP test comparisons of ions not surrounded by water molecules.