

SHARP

DUCTLESS BI-BLOCK
WALL UNIT



ECOLOGICALLY RESPONSIBLE
WITH UNRIVALED PERFORMANCE

CHU SERIES
12 000 BTU/H
18 000 BTU/H



Refrigerant R32 | Environmentally friendly



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

Models Number	AY-XP12CHU AHRI: 217512736 / ENERGY STAR: 4,439,337		AY-XP18CHU AHRI: 217508925 / ENERGY STAR: 4,437,577	
	AY-XP12CHU-B AHRI: 217512733 / ENERGY STAR: 4,439,335			
Air conditioning Capacity (Btu/h)	12 000		18 000	
Air conditioning Min - Max (Btu/h)	3 500 - 14 000		6 000 - 21 600	
Heating Capacity (Btu/h)	16 000		21 600	
Heating Min - Max (Btu/h)	3 100 - 22 850		5 500 - 30 000	
Max. heating @ -8,3 °C (17 °F) (Btu/h) (COP)	18 900 (2.22)		22 600 (2.28)	
Max. heating @ -15 °C (5 °F) (Btu/h) (COP)	16 000 (2.1)		19 500 (2.2)	
Max. heating @ -20 °C (-4 °F) (Btu/h) (COP)	13 800 (2.01)		17 100 (2.13)	
Max. heating @ -25 °C (-13 °F) (Btu/h) (COP)	11 600 (1.85)		14 800 (2.01)	
Max. heating @ -30 °C (-22 °F) (Btu/h) (COP)	9 700 (1.8)		11 800 (1.8)	
EER ²	16.0		13.0	
SEER ²	25.0		25.0	
HSPF ² (I/V)	11		11.5	
V, Hz, Phase	208-230/60/1		208-230/60/1	
Maximum Fuse Size (A)	20		25	
Dehumidification Pt/h	1.9		5.9	
Air conditioning: Sound level (dB)	43 / 40 / 36 / 28 / 24		45 / 43 / 38 / 31 / 28	
Air conditioning: Sound level (dB unit ext.)	49		52	
Heating: Sound level (dB)	44 / 40 / 35 / 29 / 22		49 / 47 / 41 / 31 / 25	
Heating: Sound level (dB unit ext.)	50		52	
Air cond.: Air flow (ft ³ /min Sh/H/M/B/Sb)	597 / 519 / 403 / 290 / 212		636 / 597 / 480 / 328 / 251	
Heating: Air flow (ft ³ /min Sh/H/M/B/Sb)	636 / 558 / 466 / 374 / 212		752 / 713 / 558 / 403 / 290	
Operating range of exterior temperature: Air cond.	14 à 115°F (-10 à 46°C)		14 à 115°F (-10 à 46°C)	
Operating range of exterior temperature: Heating	-22 à 75°F (-30 à 24°C)		-22 à 75°F (-30 à 24°C)	
Pipe Diameter (Liq x Gas) (in.)	1/4 x 3/8		1/4 x 3/8	
Refrigerant	R32		R32	
Combined Max. length ft. (m)	66 (20) (pre-charge: 25")		66 (20) (pre-charge: 25")	
Max. height ft. (m)	33 (10)		33 (10)	
Pipe Diameter (in.)	Gas 3/8	Liquid 1/4	Gas 3/8	Liquid 1/4
Total weight lb (kg)	31 (14)	67 (30)	31 (14)	95 (43)
Dimensions: Width in.	41-27/64	30-23/32	41-27/64	33-15/32
Dimensions: Height in.	12-7/16	21-1/4	12-7/16	27-15/16
Dimensions: Depth in.	9-51/64	10-19/32	9-51/64	13
SHARP		AY-XP12CHU AY-XP12CHU-B INDOOR	AE-X12CHU OUTDOOR	AY-XP18CHU INDOOR AE-X18CHU 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 odours (like tobacco smoke)
- Removes static electricity which attracts airborne particles
- Plasmacluster is effective all year round

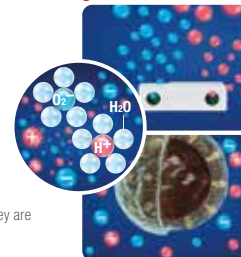


Plasmacluster's Microbe-Removing Mechanisms

1 Ions are released.

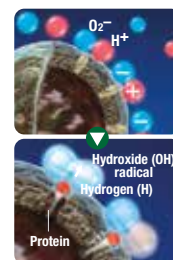
Plasmacluster Ions, the same positive and negative ions found in nature, are generated by plasma discharge and released into the air.

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



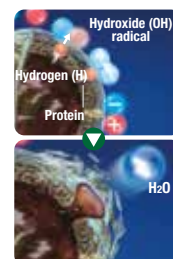
2 The ions act on airborne microbes.

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.



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



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



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

« HOT GAS PIPE »
Unique to SHARP



SHARP

• 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.

AUTHORIZED DEALER