

# SHARP

DUCTLESS BI-BLOCK  
WALL UNIT



ECOLOGICALLY RESPONSIBLE  
WITH UNRIVALED PERFORMANCE

## ZU1 SERIES

12 000 BTU/H

15 000 BTU/H

18 000 BTU/H

24 000 BTU/H



Refrigerant R32 | Environmentally friendly



**WWW.SHARPHVAC.CA**

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

Models Number	AY-XP12ZU1 AHRI: 213194987	AY-XP15ZU1 AHRI: 213239134	AY-XP18ZU1 AHRI: 213246053	AY-XP24ZU1 AHRI: 213246054
Air conditioning Capacity (Btu/h)	12,000	15,000	18,000	22,000
Air conditioning Capacity Min - Max (Btu/h)	2,800 - 13,600	5,000 - 17,000	6,000 - 21,600	6,000 - 23,000
Heating Capacity (Btu/h)	14,000	18,000	21,600	24,000
Heating Capacity Min - Max (Btu/h)	3,200 - 17,100	4,500 - 21,800	5,500 - 25,600	5,500 - 27,100
Maximum heating @ -8.3 °C (17 °F) (Btu/h)	14,500	18,100	22,000	22,400
Maximum heating @ -15 °C (5 °F) (Btu/h)	12,000	15,300	18,000	19,000
Maximum heating @ -20 °C (-4 °F) (Btu/h)	10,100	13,200	15,000	16,400
Maximum heating @ -25 °C (-13 °F) (Btu/h)	8,200	11,100	12,000	13,900
Maximum heating @ -27 °C (-17 °F) (Btu/h)	7,200	10,100	11,500	12,300
EER / EER <sup>2</sup>	12.5 / 12.5	14 / 13.4	13 / 13	10 / 10
SEER / SEER <sup>2</sup>	21 / 22	24 / 24	24 / 24	19 / 22
HSPF (IV) / HSPF <sup>2</sup> (IV)	12.5 / 11 - 9.6 / 9	11.8 / 11 - 9.5 / 8.7	13 / 11 - 10 / 9	12.3 / 11 - 9.6 / 8.5
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 <sup>3</sup> /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 <sup>3</sup> /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 à 115°F (-10 à 46°C)	14 à 115°F (-10 à 46°C)	14 à 115°F (-10 à 46°C)	14 à 115°F (-10 à 46°C)
Operating range of exterior temperature: Heating	-17 à 75°F (-27 à 24°C)	-17 à 75°F (-27 à 24°C)	-17 à 75°F (-27 à 24°C)	-17 à 75°F (-27 à 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	Liquide 1/4	Gas 3/8	Liquide 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-XP12ZU1 INDOOR	AE-X12ZU1 OUTDOOR	AY-XP15ZU1 INDOOR	AE-X15ZU1 OUTDOOR
	AY-XP18ZU1 INDOOR	AE-X18ZU1 OUTDOOR	AY-XP24ZU1 INDOOR	AE-X24ZU1 OUTDOOR

# SHARP

Download on the App Store  
ANDROID APP ON Google play

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 1m<sup>3</sup> 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 m<sup>3</sup>. 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.



## 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

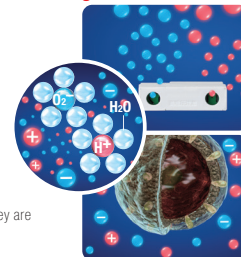


### Plasmacluster's Microbe-Removing Mechanisms

#### 1 Ions are released.

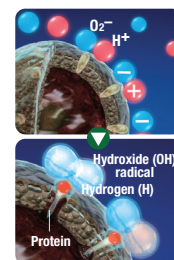
Plasmacluster Ions, the same positive and negative ions found in nature, are generated by plasma discharge and released into the air.

The ions are long-lasting\*3 because they are surrounded by water molecules.



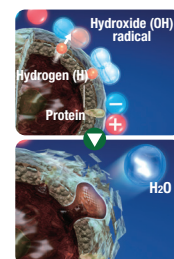
#### 2 The ions act on airborne microbes.

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.



**\*10-year compressor warranty, 10-year parts warranty and 10-year labor warranty. Ask your contractor for details.**

AUTHORIZED DEALER