

# GENERALLUX STAR

-30°C

SERIE-AST Hyper Heat

heating  
up to

-30°C

23.5 SEER  
IN AIR CONDITIONING

11.5 HSPF  
IN HEATING



AIR CERTIFIED

INVERTER

R410A

60% heating  
at -30°C



## FEATURES

### Operating Modes:

- **Cool:** This function allows the heat pump to cool the room while reducing humidity.

- **Heating (Heat):** This function allows the heat pump to heat the room.

- **Dehumidification (Dry):** This function reduces the humidity in the air to make the room more comfortable.

- **Ventilation (Fan):** This function allows the heat pump to ventilate the room only.

- **Automatic (Auto):** In AUTO mode, the operating mode will be set automatically according to the room temperature.

- **Sleep:** After 10 hours of operation in sleep mode, the heat pump will automatically turn off.

- **Eco:** In this mode, the unit is automatically set to an energy saving function.

### Control:

- Remote control
- Intelligent control by wifi technology. (optional)
- Temperature display in °C or °F

### Application:

Residential, commercial buildings, office buildings, condos, restaurants, etc.

### Indoor unit:

- Wall installation
- Four speed fan (auto, high, medium, low)
- Moisture removal : de 1.6 L/h à 2.6 L/h
- Very low sound level, close to a whisper.

### Feed:

208/230V, 60 Hz, 1 Phase.

### Powers available:

12000, 18000 et 24000 BTU/h.

### Outdoor unit:

GMCC (Toshiba) variable speed compressor Very quiet unit.

### Communication wires:

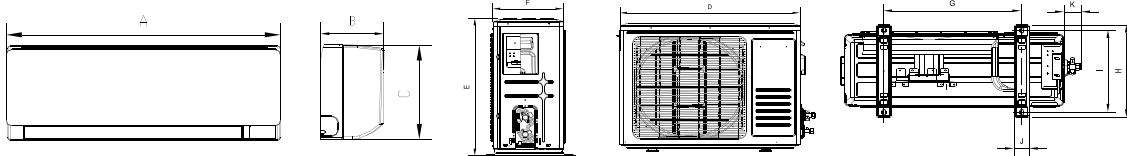
Copper wire 4/16 AWG

### Connecting copper piping between units:

- 1/4" to 1/2"
- Factory preloaded length: 25 Pi (7.5m)



## Technical specifications, serie-AST Hyper Heat simple zone



Models	Indoor unit (mm/inch)			Outdoor unit (mm/inch)							
	A	B	C	D	E	F	G	H	I	J	K
12 000 BTU	811/31.93	292/11.50	202/7.95	795/31.030	549/21.61	252/9.92	434/17.09	305/12.0	278/10.94	48/1.89	63/2.48
18 000 BTU	1010/39.76	315/12.4	220/8.366	795/31.30	549/21.61	252/9.92	434/17.09	305/12.0	278/10.94	48/1.89	63/2.48
24 000 BTU	1186/46.69	340/13.39	268/10.55	845/33.27	693/27.28	336/13.23	586/23.07	374.9/14.76	347.5/13.68	58.6/2.31	65/2.56

Indoor Unit Model Number		AST-12UW3SXETT02		AST-18UW3SBBT01		
Outdoor Unit Model Number		AST-12UW3SXE02(D)		AST-18UW3SBB01(D)		
Power Supply (MF)		Ph-V-Hz		208-230V~ 60Hz, 1Ph		
Cooling	Capacity: Rated (Min/Max)	Btu/h	12000 (3000~14000)		18000(4500~20000)	
	Input	W	940		1360	
	Rated Current	A	4,3		6,0	
	EER2	Btu/w	12,7		13,2	
	SEER1	Btu/w	23		21,0	
Heating at 47°F	SEER2	Btu/w	23,5		20,5	
	Capacity: Rated (Min/Max)	Btu/h	12000 (3000~16000)		19000 (5500~23000)	
	Input	W	940		1620	
	Rated Current	A	4,3		7,2	
	COP	W/W	3,74		3,51	
Heating at 17°F(-15 °C)	HSPF1 4	Btu/w	11,5		11,5	
	HSPF2 4	Btu/w	9,5		9,5	
	Rated Heating Capacity	Btu/h	11500		19000	
	-15 °C (5 °F)	Rated Heating Capacity	Btu/h	10500		18000
	-20 °C (-5 °F)	Heating Capacity	Btu/h	9500		16500
-25 °C (-13 °F)	Heating Capacity	Btu/h	7500		14500	
-30 °C (-22 °F)	Heating Capacity	Btu/h	6000		12000	
COP at -15 °C ODU Temp and 21 °C IDU Temp		W/W	1,98		1,85	
MINIMUM CIRCUIT AMPACITY		A	9		15	
MAX.FUSE		A	15		20	
Compressor	Model	EASN108D22UFZ		EATM240D57UMT		
	Type	ROTARY		ROTARY		
	Brand	GMCC TOSHIBA		GMCC TOSHIBA		
Indoor Air Flow (H/M/L)		m3/h	640 / 550 / 430		950 / 800 / 650	
Indoor Air Flow (H/M/L)		CFM	377 / 324 / 253		559 / 470 / 382	
Indoor Noise Level (H/M/L)		dB(A)	40/36/32		45/39/35	
Indoor Unit	Dimension(W*D*H)	mm	850×270×206		1131X315X227	
	Dimension(W*D*H)	inch	33 1/2x10 5/8 x8 1/8		/	
	Net/Gross Weight	Kg	8.5/10.5		13.5/16	
	Net/Gross Weight	lbs.	18.7/23.1		29.7/35.2	
Outdoor Air Flow		m3/h	1900		2350	
Outdoor Air Flow		CFM	1120		1382	
Outdoor Noise Level		dB(A)	53		58	
Outdoor Unit	Dimension(W*D*H)	mm	810x280x585		860x310x650	
	Dimension(W*D*H)	inch	31 7/8x11x23		33 7/8x12 1/4x25 5/8	
	Net/Gross Weight	Kg	33/36		46/50	
	Net/Gross Weight	lbs.	72.6/79.2		101.2/110	
Refrigerant Type		g	R410A/1180		R410A/1900	
Refrigerant Type		oz	R410A/ 41.62		R410A/ 67.02	
Additional Charge For Each Ft.		oz	0,161		0,161	
Design Pressure		PSIG	550/340PSIG		550/340PSIG	
Refrigerant Piping	Liquid Side/ Gas Side	mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")		Φ6.35/Φ12.7(1/4"/1/2")	
	Max. Refrigerant Pipe Length	ft	66		66	
	Max. Difference In Level	ft	33		33	
Connection Wiring		18AWG*4 Stranded, Unshielded	14AWG*4 Stranded, Unshielded		14AWG*4 Stranded, unshielded	
Operation Temperature	Indoor (Cooling/Heating)	°C	17 ~ 32/0 ~ 30		17 ~ 32/0 ~ 30	
	Indoor (Cooling/Heating)	°F	62 ~ 90/32 ~ 86		62 ~ 90/32 ~ 86	
	Outdoor (Cooling/Heating)-Optio	°C	-15 ~ -46/-30 ~ -24		-15 ~ -46/-30 ~ -24	
	Outdoor (Cooling/Heating)-Optio	°F	5 ~ 115/-22 ~ -75		5 ~ 115/-22 ~ -75	



Thread heating



Defrosting intelligent



Preheating intelligent



Restart automatic restart



Auto-cleaning



Auto-diagnosis



Mode sleep



Mode turbo



Up/down oscillation



Timer



I Feel