

High efficiency, Intelligent air flow, Low noise levels all in one split system.  
Fast, easy and flexible Multi-position installation for every home.

# ComfortStar®



High Efficiency  
up to 20.8 SEER  
Low Ambient  
-13°F

## AHU & CPP

Systems up to 20 SEER  
Residential Heat Pump  
Inverter Series - Split system

**INVERTER**







# AHU Heat Pump

## DC Multi-Position | INVERTER Air Handler

- **Temperature Control:** The AHU series keeps the indoor temperature fluctuation within  $\pm 1^{\circ}\text{F}$  providing year-round comfort.
- **Anti-cold Air Function:** Prevents the cold on Heating Mode.
- **Fast Cool/Heat Function:** Enjoy cooling and heating in seconds.
- **Auto Defrost:** Prevents the outdoor unit from freezing up.
- **Gold Fin:** Prevents bacteria growth, gold coating on the condenser withstands the salty air, rain and other corrosive elements.
- **Self-diagnosis and Auto-protection:** Unit will shut off automatically when abnormal operation or parts fail protecting the system.
- **Emergency Use Function:** When temperature sensor detects an error the unit shuts off immediately.
- **Fire-proof Electric Box:** Meets fire safety requirement to prevent the internal fire due to electric spark.
- **Auxiliary Heater:** 5kw, 10kw, 15kw and 20kw
- **2-way Draining:** Left and right sides of indoor unit have drainage hose connections for easy installation.
- **Auto Restart Function:** Auto restart when the power recovers.
- **Refrigerant Leak Detect:** Protects the compressor from damaged by high temperature due to refrigerant leak, error code "EC".
- **Drain Pan Heater:** Factory installed drain pan heater in outdoor unit prevents ice accumulation, which improves heat transfer efficiency.
- **Durable Wire Construction Fan Guard:** Wire construction fan guard provides extra fan blade protection on outdoor unit.
- **24V Wired Controller:** Uses any brand 24v heat pump thermostat including Wi-Fi models.
- **Space Saving:** 22% smaller cabinet reduces installation space requirements.
- **True Multi position air handler:** Horizontal/vertical, left or right installations.
- **Works with:** Both single and multi-zone systems.
- **Intelligent Air Flow:** Allows the technician to automatically and accurately calculate the required static pressure.

# CPP Outdoor Condenser

## Up to 20.8 SEER | Single Zone Heat Pump | Low Ambient Temperature $-13^{\circ}\text{F}$

- R410a System
- Match with wall-mount, floor-ceiling module, fan coils, or cassette type indoor units
- Gold Fin protection
- Horizontal discharge condensing units to save installation space
- Self diagnosis error codes
- ETL certified for safety
- AHRI listed for efficiency

# AHU & CPP

## Heat Pump Inverter Series | Split systems Ducted Indoor/Outdoor Models Heat Pump



### Product specifications

Indoor Model No.			AHU24	AHU36	AHU48
Outdoor Model No.			CPP024CD(O)	CPP036CD(O)-DUB	CPP048CD(O)-DUB
Power supply		V- Ph-Hz	208/230V,1Ph 60Hz	208-230V,1Ph 60Hz	208-230V,1Ph 60Hz
Cooling	Capacity (range)	Btu/h	22000	36000	48000
	Input	W	1757	4350	5986
	Rated current	A	8.10	19	26
	EER	Btu/w	12.5	8.5	8
	SEER	Btu/w	20.8	16.5	16
Heating	Capacity (range)	Btu/h	26000	39000	55000
	Input	W	2177	3570	6132
	Rated current	A	10.13	15.5	27.14
	COP	W/W	3.50	3.2	2.63
	HSPF4	Btu/w	10.4	10	9.5
	HSPF5	Btu/w	8.4	8	7.5
MINIMUM CIRCUIT AMPACITY (Indoor)		A	6	6	6
MAX.FUSE (Indoor)		A	15	15	15
Indoor fan motor	Input	W	487	487	487
	Output	W	600	600	600
	RLA	A	3.54	3.54	3.54
	Speed(Hi/Mi/Lo)	r/min	720/640/550	900/800/700	1050/980/910
Indoor air flow (Hi/Mi/Lo)		CFM	882.35/764.71/588.24	1176.47/1000.00/823.53	1411.76/1294.12/1176.47
Indoor noise level (Hi/Mi/Lo)		dB(A)	43/40.5/35	46.5/43/38	54/52/50
Indoor unit	Dimension(W*D*H)	inch	20.98x19.61x48.82	20.98x19.61x48.82	20.98x19.61x48.82
	Packing (W*D*H)	inch	51.18x22.44x24.61	51.18x22.44x24.61	51.18x22.44x24.61
	Net/Gross weight	lbs.	141.09/156.09	144.84/160.27	144.84/159.83
MINIMUM CIRCUIT AMPACITY (Outdoor)		A	18	35	36.5
MAX.FUSE (Outdoor)		A	25	60	50
Outdoor air flow		m3/h	3800	3600	7650
Outdoor air flow		CFM	2235.29	2117.65	4500.00
Outdoor noise level		dB(A)	59	64	64
Metering Type		/	EXV+Capillary	EXV+Capillary	EXV+Capillary
Outdoor unit	Dimension(W*D*H)	inch	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48
	Packing (W*D*H)	inch	42.91x19.69x34.45	42.91x19.69x34.84	43.11x19.49x58.27
	Net/Gross weight	lbs.	141.09/152.12	155.42/166.23	219.14/249.12
Refrigerant type		oz	R410A/82.9	R410A/3.2	R410A/4.5
Refrigerant pre-charge		ft	20	30	30
Additional charge for each ft		oz	0.21	0.32	0.32
Design pressure		PSIG	550/340	550/340	550/340
Refrigerant piping	Liquid side/ Gas side	inch	3/8"/5/8"	3/8"/5/8"	3/8"/5/8"
	Max. refrigerant pipe	ft	164.04	213.25	213.25
	Max. difference in level	ft	82.02	98.42	98.42
Thermostat type			24V Thermostat	24V Thermostat	24V Thermostat
Room temperature	Indoor(cooling/ heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86
	Outdoor(cooling/heating)	°F	-13~122/ -13~86	5~122/ -13~75	5~122/ -13~75





Comfort... *it's in our name*



**ComfortStar®**

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SERIES  
| Gold | Platinum | Hi-Heat

**INVERTER**



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