

Cold Climate Heat Pump Water Heater

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# ccHPWH Series

Ice Air's cold climate heat pump water heaters capture the free energy in the environment and convert it to hot water. These commercial water heaters are designed to provide domestic hot water to large buildings on the coldest days.

- Industry leading performance
  - 4x more efficient compared to electric resistance heaters
  - Lower cost of operation and maintenance compared to condensing gas-fired water heaters
- Multiple independent circuits provide built-in redundancy
- Double wall heat exchangers ensure occupant safety
- Optional single wall heat exchangers (for glycol applications)
- Freeze protection standard
- Optional heat-trace powered by building emergency power
- Clean out ports to remove sediment or lime deposits



Model Numbers		ccHPWH275-S	ccHPWH275-D	ccHPWH550-S	ccHPWH550-D	
Heat Exchanger Type		Single Wall Brazed Plate HXR	Double Wall Brazed Plate HXR	Single Wall Brazed Plate HXR	Double Wall Brazed Plate HXR	
Performance Specifications	Input Power	208-230V/3PH/60Hz		208-230V/3PH/60Hz		
	Refrigerant Circuits	2		4		
	Refrigerant / Quantity	R410A (35.4 Lbs / 17.7 Lbs per circuit)		R410A (35.4 Lbs / 17.7 Lbs per circuit)		
	Max H/W Temperature	140°F		140°F		
	Dry Bulb Temperature (68°F) Wet Bulb Temperature (59°F) Inlet Water Temperature (59°F) Outlet Water Temperature (131°F)	Heating Capacity (Btu/h)	283,207	266,143	563,003	532,287
		Input Power(kW)	19	18.8	37	37.3
		COP	4.41	4.15	4.42	4.18
	Dry Bulb Temperature (45°F) Wet Bulb Temperature (43°F) Inlet Water Temperature (48°F) Outlet Water Temperature (131°F)	Heating Capacity (Btu/h)	253,750	241,063	495,600	470,820
		Input Power(kW)	19.83	22.7	39.2	44.8
		COP	3.75	3.52	3.71	3.48
	Dry Bulb Temperature (10°F) Wet Bulb Temperature (7°F) Inlet Water Temperature (43°F) Outlet Water Temperature (131°F)	Heating Capacity (Btu/h)	170,100	161,595	304,500	289,275
		Input Power(kW)	20.5	23.5	37.8	43.2
		COP	2.43	2.28	2.36	2.22
	Minimum Ambient Operating Temperature (°F)		-13		-13	
	Max. Input Power (kW)		31.5		62	
FLA (A)		97.0		194.5		
MCA (A)		172.0		300		
MOCP (A)		236.0		364		
Sound Level (dBA)		≤71		≤76		
Water Data	Water Side Pressure Loss (psig)	5.1	10.2	7.25	13.0	
	Rated Water Flow (GPM)	73.4	69.0	129.6	122.5	
	Single pass delta-T (F) (average)	8.31	8.31	9.36	9.36	
	Piping Position	Right Hand		Right Hand		
	Piping Sizes	2		3		
	Overall Dimensions [L x W x H] (inches)	81 x 39 x 89		95 x 51 x 89		
Net Weight (Lbs)		1,500	1,555	2,850	2,950	