

Cold Climate Heat Pump Water Chiller/Heater

HPWH-SC Series

Ice Air's heat pump water chiller/heaters convert free energy from the environment into hot water. These units are designed to provide domestic hot water to large commercial buildings, even on cold days (-13°F).

- Industry leading performance
 - Lower cost of operation and maintenance compared to condensing gas-fired water heaters
 - 4x more efficient compared to electric resistance 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



SERIES MODEL #		ccHPWH275-SC	ccHPWH550-SC	
Heat Exchanger Type		Single Wall Brazed Plate HXR	Single Wall Brazed Plate HXR	
Input Power		208-230V/3Ph/60Hz	208-230V/3Ph/60Hz	
Refrigerant Circuits		2	4	
Refrigerant / Quantity		R410A (30.8 Lbs / 15.4 Lbs per circuit)	R410A (61.7 Lbs / 15.4 Lbs per circuit)	
Max H/W Temperature		140°F	140°F	
Performance Specifications	Dry Bulb Temperature (95°F) Inlet Water Temperature (55°F) Outlet Water Temperature (45°F)	Cooling Capacity (Btu/h)	216,516	396,480
		Input Power (kW)	18.3	34.5
		COP	3.46	3.37
	Dry Bulb Temperature (45°F) Wet Bulb Temperature (43°F) Inlet Water Temperature (105°F) Outlet Water Temperature (115°F)	Heating Capacity (Btu/h)	270,645	495,600
		Input Power (kW)	21.7	40.6
		COP	3.66	3.58
	Minimum Ambient Operating Temperature (°F)		-13	-13
	Max. Input Power (kW)		29.8	62
	FLA (A)		120.6	240.4
	MCA (A)		134.6	254.4
MOCP (A)		175	300	
Sound Level (dBA)		≤71	≤76	
Water Data	Water Side Pressure Loss (psig)		8.1	7.25
	Rated Water Flow (GPM)		73.4	129.6
	Max Working Pressure (psig)		230	230
	Piping Position (Refer to the electric box as front)		Rear	Rear
	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	2,850	