

ICEAIR World Class Comfort®

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Cold Climate Heat Pump Water Heater

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 heater are designed to provide domestic hot water to large buildings on the coldest days.

- 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





SERI	ES MODEL #		ccHPWH275-D	ccHPWH550-D	ccHPWH275-S	ccHPWH550-S
Performance Specifications	Input Power		208-230V/3Ph/60Hz	208-230V/3Ph/60Hz	208-230V/3Ph/60Hz	208-230V/3Ph/60Hz
	Refrigerant Circuits		2	4	2	4
	Refrigerant / Quantity		R410A (30.8 Lbs / 15.4 Lbs per circuit)	R410A (61.7 Lbs / 15.4 Lbs per circuit)	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	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)	306,000	637,300	310,800	647,400
		Input Power (kW)	21.4	45.0	20.7	43.1
		COP	4.20	4.15	4.40	4.40
	Dry Bulb Temperature (45°F) Wet Bulb Temperature (43°F) Inlet Water Temperature (48°F) Outlet Water Temperature (131°F)	Heating Capacity (Btu/H)	248,000	516,600	251,900	524,800
		Input Power (kW)	22.0	45.9	21.4	44.6
		COP	3.30	3.30	3.45	3.45
	Dry Bulb Temperature (10°F) Wet Bulb Temperature (7°F) Inlet Water Temperature (43°F) Outlet Water Temperature (131°F)	Heating Capacity (Btu/H)	160,300	333,800	162,800	339,100
		Input Power (kW)	22.4	46.6	21.7	45.2
		COP	2.10	2.10	2.20	2.20
	FLA (A)		106.4	212.8	103.7	204.4
	MCA (A)		134.6	254.4	134.6	254.4
	MOCP (A)		175	300	175	300
	Sound Level (dBA)		≤73	≤75	≤73	≤75
Water Data	Condenser Type		Double Wall BPX	Double Wall BPX	Single Wall BPX	Single Wall BPX
	Water Side Pressure Loss (psig)		11.7	16.51	11.7	16.51
	Rated Water Flow (GPM) (DB/WB:45°F/43°F,Inlet/outlet: 104°F/113°F)		59.4	118.9	59.4	118.9
	Single pass delta-T (F) (OA_temp=68°F, LWT=131°F)		10.37	10.80	10.53	11.00
	Piping Position (Refer to the electric box as front)		Rear	Rear	Rear	Rear
	Piping Sizes		2" (DN50)	3" (DN80)	2" (DN50)	3" (DN80)
Minimum Ambient Operating Temperature (°F)			-13	-13	-13	-13
Overall Dimensions [L x W x H] (inches)			81 x 39 x 89	95 x 51 x 89	81 x 39 x 89	95 x 51 x 89
Net Weight (Lbs)			1,555	2,950	1,555	2,950