

Air-Source Cold Climate Heat Pump Domestic Hot Water Heater

# CCHPD Series

What if there was a way to electrify a building's DHW plant? Ice Air's CCHPD-series cold climate heat pump domestic hot water heaters do just that! They capture the *free energy* in the environment and convert it to hot water.

The coefficient of performance (C.O.P.) ranges from 5.36 on the hottest days (115°F) to 2.43 on the coldest days (10°F). These units are certified to operate down to **-13°F** with a C.O.P. of 1.42 (1.43 times better than electric heat)... owning the title of **cold climate** operation.

There is no better way to electrify a building's DHW plant than Ice Air's CCHPD series.



Ice Air, LLC				
Commercial Heat Pump / Domestic Hot Water				
Equipment Type		Commercial Heat Pump Domestic Hot Water	Commercial Heat Pump Domestic Hot Water	
Model		CCHPD325	CCHPD650	
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 (70.55 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)	324,100	641,400
		Input Power(kW)	21.5	42.6
		C.O.P. (W/W)	4.42	4.41
	Dry Bulb Temperature (45°F) Wet Bulb Temperature (43°F) Inlet Water Temperature (48°F) Outlet Water Temperature (131°F)	Heating Capacity (Btu/H)	290,000	566,300
		Input Power(kW)	22.7	44.8
		C.O.P. (W/W)	3.75	3.71
	Dry Bulb Temperature (10°F) Wet Bulb Temperature (7°F) Inlet Water Temperature (43°F) Outlet Water Temperature (131°F)	Heating Capacity (Btu/H)	194,400	348,000
		Input Power(kW)	23.5	43.2
		C.O.P.(W/W)	2.43	2.36
	Max Input Power (KW)		35	71
	FLA (A)		65	131
MCA (A)		122	232	
MOCP (A)		172	302	
Rated Water Flow (GPM)		49	98	
Sound Level (dBA)		≤69	≤75	
Water Data	Condenser Type		Coaxial	Coaxial
	Water Side Pressure Loss (psig)		17.4	17.4
	Piping Position		Right Hand	Right Hand
	Piping Sizes		2" DN80	3" DN80
Minimum Ambient Operating Temperature (°F)		-13	-13	
Overall Dimensions [L x W x H] (inches)		81 x 39 x 89	95 x 51 x 89	
Net Weight (Lbs)		1,875	3,595	