

## Condensing Companion Heater

*The Cemline Condensing Companion Heater (CCH) is a perfect solution for producing domestic hot water when using a Hydronic Condensing Boiler.*

The package consists of storage vessel, brazed plate heat exchanger, and domestic water pump. The boiler's controller monitors the domestic hot water temperature in the tank turning on and off a boiler water pump to maintain the desired domestic water temperature. Optionally, a boiler water pump and pump control panel can be supplied by Cemline. The Condensing Companion Heater (CCH) is completely packaged and ready to install.



Unit shown with optional Boiler Water Pump.

### CCH Series Features

- ASME Pressure Vessel** . . . . . ASME Code Stamping and Registration offer the assurance of quality controlled construction.
- STONESTEEL® Tank** . . . . . Prevents rust and corrosion.
- Brazed Plate Heat Exchanger** . . . . . Highly efficient allowing for optimal heat transfer between the boiler water and the domestic hot water.
- Intratank Circulating Pump** . . . . . Constant flow through heat exchanger maintaining a constant domestic water temperature while reducing the risk of legionnaire's disease.
- Well for Boiler Controller Temperature Sensor** . . . . . Condensing boiler monitors domestic hot water temperature as required.
- Jacket and Insulation** . . . . . 20 gauge steel jacket protects the insulation and provides a neat finished appearance with hammerstone enamel painted exterior. Insulation prevents heat loss and meets ASHRAE standards.
- ASME Relief Valve** . . . . . Temperature and pressure relief valve sized to relieve in the event of over temperature or pressure situations.
- Gauges** . . . . . Thermometer and Pressure Gauge indicating vessel temperature and pressure.

### Optional Equipment

- Stainless Steel Vessel** . . . . . Type 316-L provides long life with corrosion resistance.
- Boiler Water Pump** . . . . . Turns on from boiler's control to maintain desired set point in the tank.
- Control Panel** . . . . . Interfaces with condensing boiler's controller to turn boiler water pump on/off controlling temperature of the water heater. Includes On/Off switch, power on light, pump running lights.

# CCH Series



## Sizing Chart

Available with Single or Double Wall Brazed Plate Heat Exchangers.

Model	Gallon Capacity	BTU/Hr Input	GPH Recovery at Degree Rise	
			80° F	100° F
			40° to 120°	40° to 140°
V120CCH100	120	100,000	150	120
V120CCH250	120	250,000	375	300
V120CCH500	120	500,000	750	600
V120CCH750	120	750,000	1125	900
V120CCH1000	120	1,000,000	1500	1200

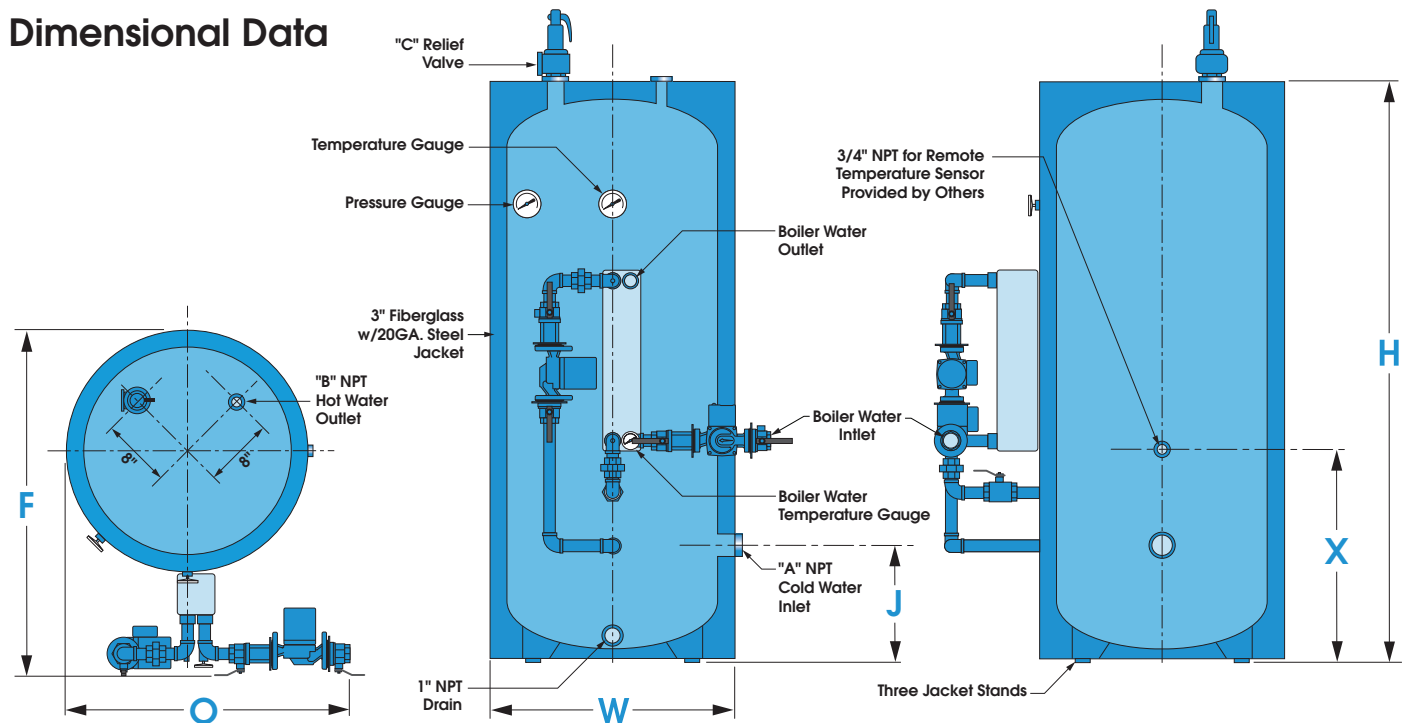
Model	Gallon Capacity	BTU/Hr Input	GPH Recovery at Degree Rise	
			80° F	100° F
			40° to 120°	40° to 140°
V200CCH250	200	250,000	375	300
V200CCH500	200	500,000	750	600
V200CCH750	200	750,000	1125	900
V200CCH1000	200	1,000,000	1500	1200
V200CCH2000	200	1,200,000	1800	1440

Model	Gallon Capacity	BTU/Hr Input	GPH Recovery at Degree Rise	
			80° F	100° F
			40° to 120°	40° to 140°
V300CCH750	300	750,000	1125	900
V300CCH1000	300	1,000,000	1500	1200
V300CCH1200	300	1,200,000	1800	1440
V300CCH1500	300	1,500,000	2250	1800
V300CCH2000	300	2,000,000	3000	2400

Model	Gallon Capacity	BTU/Hr Input	GPH Recovery at Degree Rise	
			80° F	100° F
			40° to 120°	40° to 140°
V500CCH1000	500	1,000,000	1500	1200
V500CCH12000	500	1,200,000	1800	1440
V500CCH1500	500	1,500,000	2250	1800
V500CCH2000	500	2,000,000	3000	2400
V500CCH2500	500	2,500,000	3750	3000

Energy Source: Boiler Water, typically 180, 160, 150, or 140 with a 30 - 40° F Delta T. (140° F boiler water can not be used to produce 140° F of domestic water.)

## Dimensional Data



Unit shown with optional Boiler Water Pump.

MODEL NUMBER	GALLON CAPACITY	TANK SIZE D x L	W	H	J	X	F	O	A	B	C
V120CCH	120	24" x 63"	28"	66"	14"	25"	40"	32"	2"	3/4"	3/4"
V200CCH	200	30" x 76"	34"	80"	16"	28"	46"	37"	2"	1"	1"
V300CCH	300	36" x 80"	40"	84"	17"	28"	52"	40"	2"	1"	1"
V500CCH*	500	42" x 90"	46"	94"	20"	31"	58"	48"	2"	1"	1"

\* V500CCH models will be supplied with 12" x 16" manhole

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