

# CCH Series



## Condensing Companion Heater

*The perfect solution for producing domestic hot water when using a Hydronic Condensing Boiler.*



### CEMLINE CORPORATION

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# Cemline® Condensing Companion Heater

## Dimensional Data-Horizontal

*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.

### CCH Series Features

- A.S.M.E. Pressure Vessel** . . . . . A.S.M.E. 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.
- 3-Way Automatic Tempering Valve** . . . . . To maintain outlet temperature from heater. Available in self-contained, thermostatic or electronic with P.I.D. controller.



Unit shown with optional Boiler Water Pump and optional 3-way Tempering Valve.

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## Dimensional Data-Horizontal

### 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

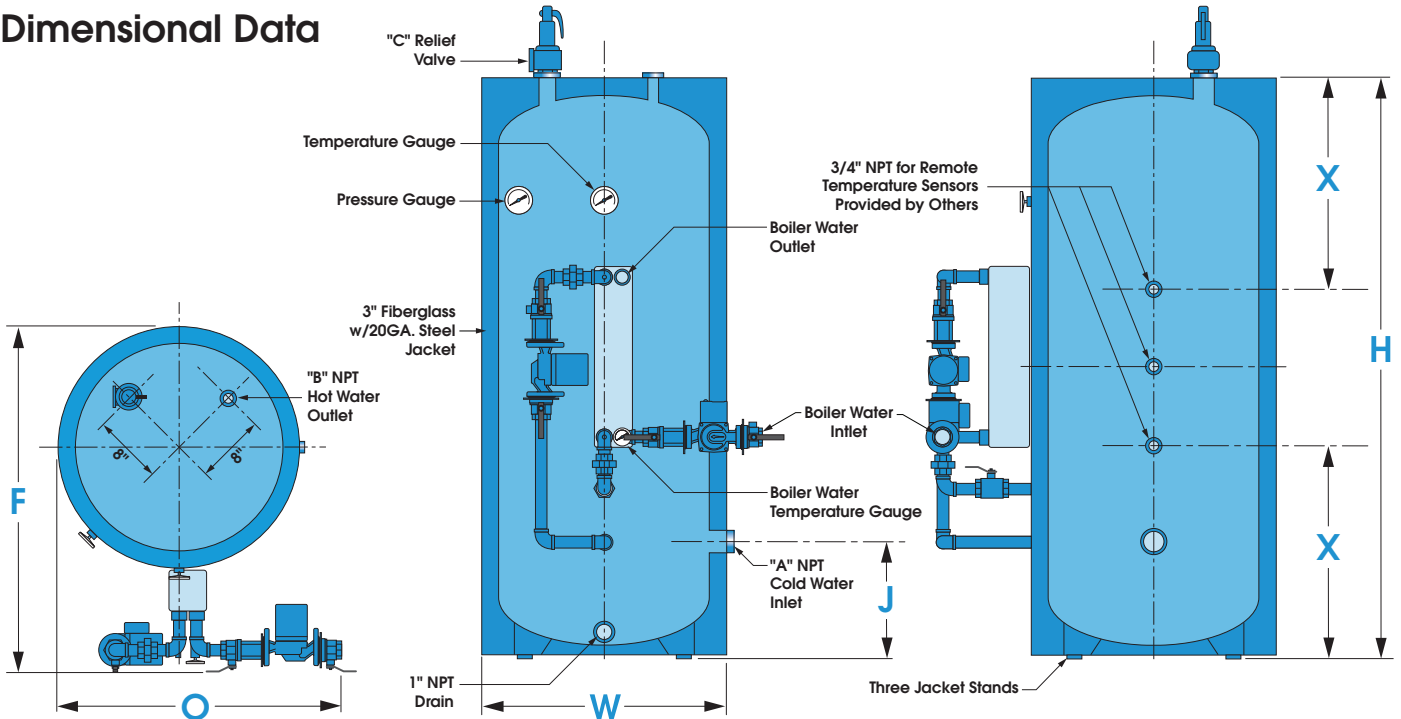
Model	Gallon Capacity	BTU/Hr Input	GPH Recovery at Degree Rise	
			80° F	100° F
			40° to 120°	40° to 140°
V200CCH250	200	250,000	375	300
V200CCH500	200	500,000	750	600
V200CCH750	200	750,000	1125	900
V200CCH1000	200	1,000,000	1500	1200
V200CCH2000	200	1,200,000	1800	1440

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 of 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 and optional 3-way Tempering Valve.

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"	21"	40"	32"	2"	2"	3/4"
V200CCH	200	30" x 76"	34"	80"	16"	25"	46"	37"	2"	2"	1"
V300CCH	300	36" x 80"	40"	84"	17"	30"	52"	40"	2"	2"	1"
V500CCH*	500	42" x 90"	46"	94"	20"	30"	58"	48"	2"	2"	1"

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

## Sales Offices



### Other Sales Offices:

- Alaska
- Hawaii
- Puerto Rico
- Saudi Arabia
- Taiwan
- U.A.E.

## Available Cemline Brochures



- [www.cemline.com](http://www.cemline.com)
- Product Sizing Programs
  - Brochures
  - I.O.M. Manuals
  - Drawings & Specifications
  - Agent Locator
  - Plant Tour

- STONESTEEL®
  - Water Storage Tanks
  - Jacketed Storage Tanks
  - Commercial Electric and Packaged Copper Coil Water Heaters
- Submerged Heating Coils
- Replacement Tube Bundles
- Steel Tanks
- Chilled Water Buffer Tanks
- System Efficiency Buffer Tanks
- Electric Boilers
- Stainless Compact Packaged Copper Coil Water Heaters - Semi-instantaneous, Instantaneous
- Unfired Steam Generators
- Condensed Catalog

*Cemline is represented in all major cities.  
Please contact your local representative or call Cemline Corporation.*

