CONSTANTEMP® STEAM/WATER HEATER

INSTANTANEOUS WATER HEATER

Constantemp® steam/water heaters pack reliable, accurate performance into small spaces. The central operating component of the Constantemp® heater is a feed-forward blending valve, activated by a differential pressure-sensing head. Water is blended instantly, with virtually no lag in response times. Constantemp® features a helical coiled heat exchanger that operates with steam pressures between 2-15 psig to provide hot water within +/- 3°F of the outlet setpoint temperature. The range of ondemand water heaters are ideal for people-washing and process-heating applications.

Constantemp[®] heaters are sold as standard with a ductile iron heat exchanger, copper coil, and blending valve mounted onto a small frame. The largest unit available, capable of blending up to 120 gpm, is designed to fit through a small doorway, making Constantemp[®] an ideal solution for compact mechanical rooms.

For quick and simplified installation, Constantemp[®] heaters are also available in a skid-mounted configuration that includes pre-piped traps, strainers, a steam pressure gauge, and temperature gauges. The Constantemp[®] heater needs only to be connected to the steam, water, and condensate piping before it is ready to use. Users can take the guesswork out of pipe sizing, distance to the steam-reducing valve, and proper trap installation. All connections are flanged and easily accessible at the edge of the assembly.

For unique application requirements, Armstrong can custom design a complete system to suit your unique requirements. Get hot water fast with a Constantemp[®] steam/water heater engineered, manufactured, and assembled by the steam management experts at Armstrong International.



Constantemp® Base Unit Heater



Constantemp® Skid-Mounted Package Heater

Designs, materials, weights, and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for the most up-to-date information.





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TECHNICAL SPECIFICATIONS

General			
Ambient Temperature		Minimum Ambient Temperature: 35°F (2°C)	Maximum Ambient Temperature: 122°F (50°C)
Installation Environment		Suitable for indoor use only	
Materials			
Piping (Steam/Condensate Lines)		Steel	
Piping (Water Lines)		Copper/Brass	
Exchanger Shell Material		Ductile Iron	
Exchanger Tube Material		Copper	
Connections			
E300L	Cold Water Inlet	2" Male NPT Connection	
	Mixed Water Outlet	2" Female NPT Connection	
	Steam Inlet	3" Class 150 Flange Connection	
	Condensate Outlet	1" Class 150 Flange Connection (Armstrong Steam Trap 813)	
E600L	Cold Water Inlet	2" Male NPT Connection	
	Mixed Water Outlet	2" Female NPT Connection	
	Steam Inlet	3" Class 150 Flange Connection	
	Condensate Outlet	1-1/2" Class 150 Flange Connection (Armstrong Steam Trap 814)	
E900L	Cold Water Inlet	2-1/2" Male NPT Connection	
	Mixed Water Outlet	2-1/2" Female NPT Connection	
	Steam Inlet	4" Class 150 Flange Connection	
	Condensate Outlet	1-1/2" Class 150 Flange Connection (Armstrong Steam Trap 815)	
E1200L	Cold Water Inlet	2-1/2" Male NPT Connection	
	Mixed Water Outlet	2-1/2" Female NPT Connection	
	Steam Inlet	4" Class 150 Flange Connection	
	Condensate Outlet	1-1/2" Class 150 Flange Connection (Armstrong Steam Trap 816)	
Pressures			
Water Inlet Supply Pressures		Maximum Water Pressure: 150 psig (10 barg)	
Steam Inlet Supply Pressures		Maximum Allowable Steam Pressure: 250 psig (17 barg)	
		Maximum Operating Steam Pressure: 15 pisg (1 barg) - PRV required for pressure over 15psig (1 barg)	
Temperatures			
Adjustable Temperature Range	E300L	105°F - 150°F (41°C - 65C)	
	E600L, E900L, E1200L	105°F - 180°F (41°C - 82°C)	
Control Range		+/-3°F	

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