



## CMS SEMI INSTANTANEOUS HOT WATER HEATER *MEGAHEAT* SS6/8/10

- ***MEGAHEAT*** All stainless steel shell and head. 304 stainless steel construction throughout (316 available) design pressure 150 psig in accordance to ASME VIII Div 1. Shell diameter 6 inch through to 12” .
- ***Flowrates 40-80-120-160 USGPM for temperatures up to 190 Deg F available on four model sizes***
- ***MEGAHEAT*** U Tube bundle design. Steam in the tubes for low fouling design. Water is circulated in the shell for excellent temperature control and speed of response. Typical control is +/-2 Deg F under steady load conditions. Bundle can be inspected whilst system is still under pressure.
- ***MEGAHEAT*** Copper, copper nickel or stainless steel U Tube Bundle design. Single and Double wall available. Double wall has bleed port in tube sheet for indication of tube bundle leak.
- Pneumatic control valve 40:1 turndown industrial grade valve with cage retained seat and PTFE Chevron packing. Flanged 150# as standard with multi spring actuator and SMART Siemens PS2 positioner for reduced air consumption and auto stroke commissioning set up.
- Electric control valve 40:1 turndown with 24v ac/dc actuator and SMART positioner. Same response time as pneumatic valve .
- Condensate drainage using float and thermostatic trap and optional closed loop pump trap with vent free design
- Shell mounted industrial grade RTD PT100 c/w stainless steel thermowell
- Double safety system for over temperature protection. Steam shut off and hot water dump upon over temperature condition



- Apollo T&P relief valve set 212 Deg f and 150 psig
- Padded insulation jacket for low skin temperature and thermal efficiency in accordance to Ashrae 90.1
- **MEGAHEAT** Energy control panel SSIEM for full control of temperature control loop. Color display mounted in Nema 4 16x16 control panel with local disconnect. 120/1/60 voltage with internal control voltage transformer as required.
  - **Two loops for control Temperature/Pressure/Mixing**
  - **Thirty channel trending and data recording**
  - **Built in web server for remote access of system diagnostics**
  - **Performance logging for energy**
  - **Eurotherm Nanodac hardware with BTU monitoring option**
  - **Anti-Legionella design as standard**



Nanodac Controller Eurotherm



Megaheat Stainless steel heater



*MEGAHEAT Nomenclature*

<i>MH</i>	<i>SS6</i>	<i>SW</i>	<i>PN</i>	<i>40</i>	<i>304</i>	<i>ST</i>
	<i>SS8</i>	<i>DW</i>	<i>EL</i>	<i>80</i>	<i>316</i>	<i>PT</i>
	<i>SS10</i>			<i>120</i>		<i>EL</i>
	<i>SS12</i>			<i>160</i>		

<i>Megaheat</i>	<i>Dia</i>	<i>Single/</i>	<i>Pneumatic</i>	<i>GPM</i>	<i>Mat'l</i>	<i>Condensate</i>
<i>Family</i>	<i>Shell</i>	<i>Double</i>				<i>Drainage</i>
						<i>Steam trap</i>
						<i>Pump trap</i>
						<i>Electric</i>