Packaged Hot Water Boilers/Calorifiers - Specifications

1.0 Scope

Supply an electrically heated hot water boiler/calorifier complete with standard equipment and options as indicated in the following specification.

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2.0	General
2.	1 The boiler/calorifier shall be electric resistance type VWB/VC/etc. as manufactured by CCI Thermal Technologies
2.2	Inc. 2 The boiler/calorifier shall be constructed to the latest edition of the ASME code with the design registered in
3.0	Capacity
	1 The minimum boiler/calorifier output shall be Btu's/hr.
	2 The boiler/calorifier shall be rated at volts, phase, kW, HZ.
3.3	3 The boiler/calorifier shall be suitable for operating under the following conditions:
	- flow rate: USGPM (I/s)
	- inlet temperature: °F (°C)
_	- outlet temperature: °F (°C)
3.4	4 The boiler/calorifier vessel shall be designed for an operating pressure of psig (kPa) maximum.
4.0	Controls
4.	1 The boiler/calorifier shall be fully equipped with all electrical and mechanical controls so that it is complete and ready to operate.
4.	2 Standard mechanical components provided shall include a pressure gauge with isolating stopcock, a temperature gauge, drain blowdown valve(s) as required, temperature controller, high temperature controller c/w manual reset and pressure relief valve(s).
4.	3 Standard electrical components provided shall include a control circuit ON/OFF switch, fused control transformer, fused magnetic contactors derated to a maximum of 90% of their rated capacity, electronic low water controller, pilot lights for "Power ON", "Heat ON", "Low Water", and "High Temperature", and connection lugs for incoming power supply.
4.	4 In addition to the standard components itemized in articles 4.2 and 4.3, the boiler/calorifier shall come equipped with the following optional features: (specify - see pages E26 and E28 for options)
5.0	Flange Heaters
5.	1 The boiler/calorifier shall be equipped with flanged immersion heaters as manufactured by CCI Thermal Technologies Inc.
5.	2 The flange heaters shall be Incoloy® sheathed and of low watt density.
5.	3 (For VWB Boilers) The flange heaters shall be mounted vertically through the top of the vessel so as to minimize the build-up of solids on the heating elements.
_	or
5.	3 (For Calorifiers) The flange heater shall be mounted horizontally as close as practical to the bottom of the vessel.
6.0	Enclosure
	1 The hot water boiler/calorifier shall be equipped with a full structural steel base supporting the vessel, control panel and sheet metal enclosure.
	2 The entire enclosure shall be finished with a baked on epoxy finish (ASA-61 gray).
	3 The boiler/calorifier dimensions shall be approximately high x wide x deep.
6.	4 (For Calorifiers) The vessel storage volume shall be U.S. gallons (litres).

Specifications

