

# Engineering Specifications



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## ► Boilers and Burners

Vitotron 100, VLN2 14.4 Wall-Mounted Electric Boiler (Qty. of 1)

### Electric Boiler Specifications: Vitotron 100, VLN2 14.4

#### 1.0 General

The electric boiler shall be constructed and assembled as a completely packaged unit, factory tested and UL labeled. The electric boiler shall be ready for field connections to a sealed hydronic fully pumped hot water heating system. The electric boiler shall be complete with a heavy gauge steel jacket with a white baked enamel finish.

The electric boiler shall incorporate three individual resistive immersion type heating elements. Each element shall be mechanically mounted and field replaceable without welding or brazing.

The digital control system shall maintain optimized performance, using the integrated outdoor reset logic. The electric boiler shall be equipped with a three-speed internal pump and pre-installed 30 psig pressure relief valve, for simplified installation.

#### 1.1 Performance Criteria

Each electric boiler shall be designed for operating at:

Total input	14.4 kW (49,147 Btu/h)
Power supply	240 VAC / 1 Phase / 60 Hz
Rated current	60.0 Amps

Maximum allowable working pressure: 30 psig.

Supply water temperature range: 85 - 140°F (29 - 60°C).

#### 2.0 Construction

The electric boiler shall be equipped with a digital control unit interface, with push button control and LED status indicators. The electric boiler shall be capable of operating using a (dry contact) thermostat or space temperature sensor. The electric boiler shall be able to operate on a supply setpoint temperature and shall facilitate the connection of an outdoor temperature sensor for operation with the electric boiler controls' integrated outdoor reset logic.

Wire and cable entry to the electric boiler shall be facilitated by strain reliefs to protect electrical wires. All controls, relays, transformers, and wiring shall be installed behind the enclosure.

Standard equipment shall also include the following items:

- Manual reset fixed high limit
- Integrated digital user interface with temperature display
- Integrated boiler flow-switch
- integrated 30 psig pressure relief valve
- Integrated adjustable pressure differential bypass

#### 3.0 Certifications

All individual components shall be accepted as part of the system under the governing body having jurisdiction. Field approval shall not be required for any component. The electric boiler shall be UL approved.

The electric boiler shall have the following approvals and listings, or be in compliance with: UL

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