

# Engineering Specifications



**Project:**

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## ► Domestic Hot Water Storage Tanks

Vitocell 300-V, EVIB-119 Stainless Steel DHW Tank (Qty. of 1)

## ► System Accessories

### DHW Tank Specifications: Vitocell 300-V, EVIB-119

#### 1.0 Performance Criteria

The DHW tank shall have a storage capacity of no less than 119 USG (450 L).

The tank shall be suitable for domestic hot water production in combination with a hot water heating system.

The Vitocell's stainless steel storage tank has an external diameter of 23.9 inches (609.5 mm) and shall not require CRN registration or Manufacturers Data Report (MDR).

The tank shall be designed for use on heating systems with the following operating conditions:

- Tank operating conditions: maximum operating pressure 150 psig at 210°F (99°C)
- Heat exchanger coil operating conditions: maximum hot water operating pressure 220 psig at 392°F (200°C)

#### 2.0 Construction

Each hot water storage tank shall have an integrated stainless steel, smooth-surfaced, non-finned, conically shaped, coiled heat exchanger. Both the tank and heat exchanger shall be made of fully hygienic, high-alloy stainless steel. The storage tank shall be CSA certified for low lead content, including U.S. Safe Drinking Water Act, NSF/ANSI 372, as well as other applicable U.S. State requirements.

The 1 $\frac{3}{8}$ " (35mm) diameter internal tubular heat exchanger shall be designed with a large surface coil area in the lower portion of the tank to allow rapid and uniform heating of the water in the tank with a low pressure drop through the heat exchanger coil. The coil shall be designed so as to be both self-draining and self-venting, be non-finned with space between passes, and be tapered to allow full output from all passes of the coil.

Tank enclosure panels shall encase the tank with a minimum of 4" (100mm) wrap-around soft PET insulation and jacketing panels. The tank shall be equipped with NPT threaded connections, for attachment of each threaded nipple to boiler water or domestic water piping, without the use of adaptors.

Each tank shall have a front-mounted inspection / clean-out port, and be equipped with a thermometer registering tank water temperature.

Three levelling feet shall be provided on the tank base to allow for easy adjustment.

#### 3.0 Certifications

The tank shall have the following approvals and listings, or be in compliance with:

CSA, AHRI

## 4.0 Installation

All water connections shall be accessible once the tank is installed, for ease of service.

A 3/4" pressure and temperature relief valve shall be factory supplied and field installed to meet local Canadian or U.S. codes (CSA ratings shall be followed). The maximum pressure relief setting shall be 150 psi at 210°F (99°C).

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