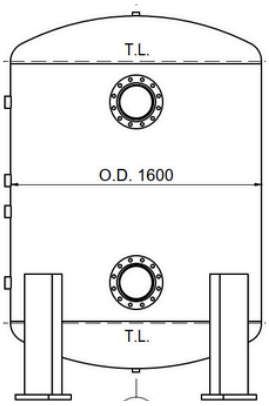
SPEC SHEET

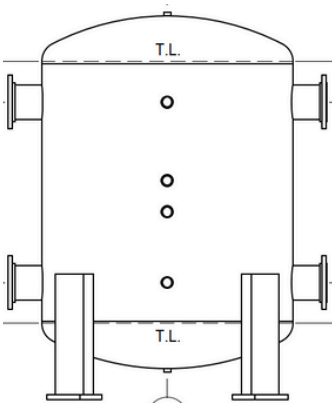
ThermaCon Custom Buffer Tank 500 - 5000L For Heating & Cooling

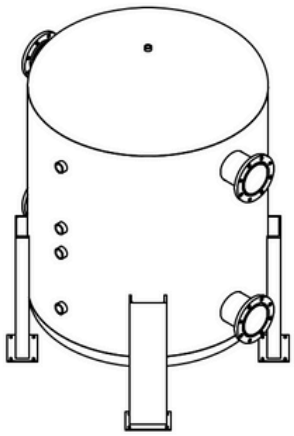
PRODUCT CODE: TCBT-CUSTOM

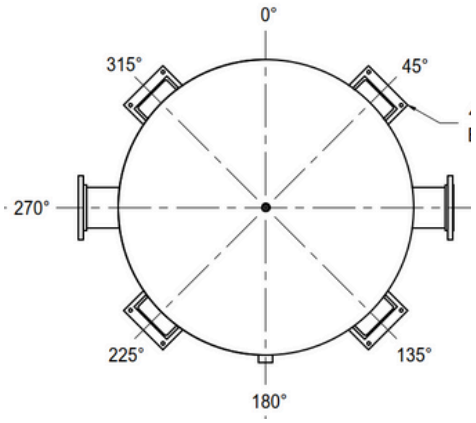
KEY FEATURES

- ThermaCon Buffer tanks can be fabricated in both Carbon Steel and stainless steel, in volumes ranging from 500 to 2000L. Ports and connections can be adjusted to suit. Pressure rating from 4 - 10 bar. Designed to meet site-specific pressure and seismic requirements.
- Adaptable designs to suit site conditions.
- Materials: 316L, 304, Carbon Steel.
- Threaded Auxiliary: Ports including gauge, sensor, vent and drain.
- Flanged connection ports (2 or 4 options) at 90 or 180° orientation.
- Inspection ports available on request.
- Quick design and fabrication turnaround times.









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FlowQuip
Piped Equipment Specialties

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INSULATION COMPLIANCE STATEMENT – HVAC BUFFER TANKS (NZBC H1)

- The chilled water and heating water buffer tanks are insulated with a composite insulation system comprising 20 mm Macrylene elastomeric insulation and 100 mm polyester fibre insulation, protected with an external PVC jacket.
- The total insulation-only thermal resistance of the system is R ~ 3.2 m^2·K/W.
- In accordance with NZBC Clause H1, Verification Method H1/VM3, Paragraph 7.2.1.2(c) and Table 7.2.1.2B (Vessels, heat exchangers and tanks), the minimum required insulation R-values are:
- R ≥ 1.8 m^2·K/W for chilled water systems (>2°C to ≤20°C), and
- R ≥ 2.3 m^2·K/W for heating water systems (>30°C to ≤85°C),
- R ≥ 3.0 m^2·K/W for heating water systems (>85°C to ≤120°C).
- The provided insulation system meets or exceeds the applicable minimum R-value requirements for chilled water and heating water HVAC buffer tanks and therefore complies with NZBC H1/VM3.
- Where used on chilled water systems, the insulation includes a continuous external vapour barrier, and where installed externally, is protected against weather and UV exposure, in accordance with H1/VM3 7.2.1.2(f) and (g).

optional custom accessory - diffuser pipe

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