

Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

LEAD FREE*

Series DETA
ASME – Pressurized Expansion
Tanks for Potable Hot Water

Models DETA 5 to DETA 210

Watts Model DETA Tanks are ASME fixed bladder type pre-charged expansion tanks for commercial and industrial fresh potable hot water applications. They are designed to accept the expanded volume of hot water keeping the system pressure below the relief valve setting. The water is contained in a butyl bladder.

Features

- ASME Section VIII Construction
- Fixed Butyl Bladder (FDA approved)
- Bladder Integrity Monitor
- Precharged to 40 psi (Field Adjustable)
- Complies with NSF/ANSI Standard 61

Construction

Shell: Carbon steel
 System Connection: Stainless steel
 Bladder: Butyl (FDA approved)
 Prime painted exterior

Pressure – Temperature

Maximum Design Pressure:
 DETA 5 through DETA 210: 150 psi (10 bar)
 Precharged to 40 psi (275 kPa)
 Maximum Design Temperature: 240°F (115°C)

Specifications

Furnish and install as shown on plans a Watts Model DETA _____ gallon _____ " diameter x _____" (high) pre-charged steel thermal expansion tank with a fixed butyl bladder. The tank shall have a bladder integrity monitor and a .302" - 32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank must be constructed in accordance with Section VIII of the ASME Boiler and Pressure Vessel Code.



Schedule

| MODEL NUMBER | TANK VOLUME GALLONS | ACCEPTANCE VOLUME GALLONS | TAGGING INFORMATION | QUANTITY |
|--------------|---------------------|---------------------------|---------------------|----------|
| DETA 5 | 3.5 | 2.3 | | |
| DETA 12 | 5 | 3.3 | | |
| DETA 20 | 8 | 5.3 | | |
| DETA 30 | 15 | 10.0 | | |
| DETA 42 | 22 | 14.5 | | |
| DETA 60 | 26 | 17.5 | | |
| DETA 80 | 35 | 23.5 | | |
| DETA 100 | 45 | 30 | | |
| DETA 125 | 60 | 40 | | |
| DETA 160 | 70 | 47 | | |
| DETA 180 | 80 | 53 | | |
| DETA 210 | 90 | 60 | | |

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

NOTICE

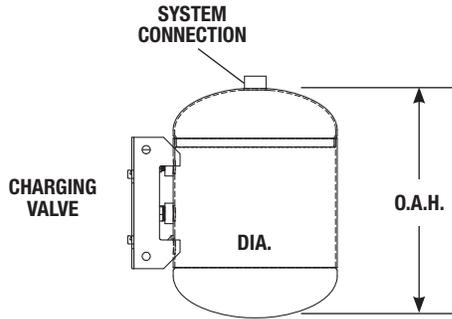
Inquire with governing authorities for local installation requirements

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

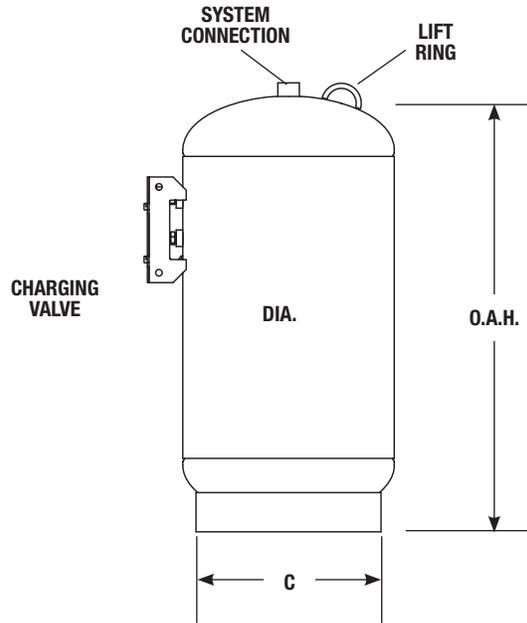
Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Thermal Expansion Tanks – Pressurized



DETA 5 and DETA 12



DETA 20 through DETA 210

Dimensions – Weight

| MODEL NUMBER | SYSTEM CONNECTION | MAX. OPERATING PRESSURE | DIA | DIMENSIONS | | | | WEIGHT* | |
|--------------|-------------------|-------------------------|------------|------------|-----------|------------|-----------|---------|-----|
| | | | | Height | | C | | lbs. | kgs |
| | <i>in.</i> | <i>(PSIG)</i> | <i>in.</i> | <i>in.</i> | <i>mm</i> | <i>in.</i> | <i>mm</i> | | |
| DETA 5 | 3/4 | 150 | 10 | 14 | 356 | – | – | 22 | 10 |
| DETA 12 | 3/4 | 150 | 12 | 14 | 356 | – | – | 28 | 13 |
| DETA 20 | 3/4 | 150 | 12 | 20 | 508 | 10 | 254 | 34 | 15 |
| DETA 30 | 1 | 150 | 16 | 24 | 609 | 14 | 356 | 50 | 23 |
| DETA 42 | 1 | 150 | 16 | 31 | 788 | 14 | 356 | 57 | 26 |
| DETA 60 | 1 | 150 | 16 | 34 | 864 | 14 | 356 | 62 | 28 |
| DETA 80 | 1 | 150 | 16 | 45 | 1143 | 14 | 356 | 80 | 36 |
| DETA 100 | 1 | 150 | 20 | 39 | 990 | 18 | 457 | 110 | 50 |
| DETA 125 | 1 | 150 | 20 | 50 | 1270 | 18 | 457 | 134 | 61 |
| DETA 160 | 1 1/2 | 150 | 24 | 47 | 1701 | 22 | 559 | 177 | 80 |
| DETA 180 | 1 1/2 | 150 | 24 | 50 | 1270 | 22 | 559 | 184 | 83 |
| DETA 210 | 1 1/2 | 150 | 24 | 53 | 1346 | 22 | 559 | 193 | 88 |

(*approximate)

NOTICE

Tanks are factory pre-charged at 40 psi and field adjustable.
Lift ring on models DETA 42 through DETA 210.



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 Canada: T: (888) 208-8927 • F: (905) 332-7068 • Watts.ca
 Latin America: T: (52) 55-4122-0138 • Watts.com