



Who We Are

Elbi has over 45 years of experience in tank manufacturing and a worldwide reputation for quality. Our manufacturing plant located in Houston, TX started operations in 1990.

Another plant located in northern Italy is dedicated to the manufacturing of all diaphragms and bladders for Elbi tanks through modern injection molding processes, and holds the quality control of these critical components in-house.

Product design is handled by our internal development team. Our testing facilities and quality control services ensure that you get a quality product from design to installation. All components, including bladders, are manufactured in house to ensure total control of the manufacturing process.

Among its wide range of products, Elbi now introduces its newest Product Line: ASME code tanks designed and manufactured according to Section VIII, Div. 1.

ASME tanks are available in three versions: thermal expansion tanks for potable hot water; expansion tanks for hydronic heating systems; well tanks for pressurized potable water systems.



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ASME CODE TANKS

BOZZA
N. 3
5/02/2016



DT Series - Thermal Expansion Tanks



elbi

ASME THERMAL EXPANSION TANKS FOR POTABLE HOT WATER



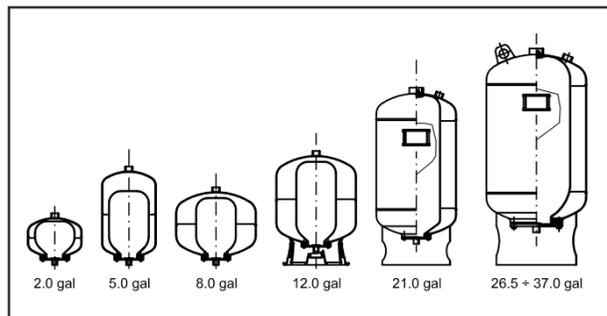
ELBI's DTS and DTL Series Thermal Expansion Tanks are designed according to the ASME CODE Section VIII - Div. 1 using the latest technology in terms of manufacturing processes and quality control. Available in 150 psi maximum working pressure. Intended for use in commercial and industrial fresh potable hot water applications, these tanks accept the expanded volume of hot water keeping the system pressure below the relief valve setting, thus preventing dangerous pressure build-up. All models are fitted with a replaceable bladder.

DTS Series



STANDARD FEATURES AND BENEFITS:

- ASME CODE SECTION VIII, DIV. 1– UM stamped
- Max working pressure: 150 psi
- Max Temperature: 240° F (115° C)
- Factory precharge pressure: 40 psi
- Models up to 12.0 gals. are "two shell" design.
- Models from 21.0 gals. are "two shell and body" design.
- Removable heavy duty Butyl bladder suitable for use with potable water isolates water from tank eliminating tank corrosion and rust in the water.
- Stainless Steel water connection.
- Air valve inside a protective nipple and secured by a galvanized threaded plug.
- FINISH: "Automotive" gray finish paint.
- Acceptance volume: 90% of stated tank capacity (*).
- Bladder contains FDA approved compounds and is suitable for domestic potable hot water applications.
- Tanks can be installed horizontally.



DIMENSIONAL DATA

In line models

Model Number	Capacity (Gals)	*Accept. Vol. (Gals)	Diameter (Inches)	Height (Inches)	NPT System Connection	Weight (lbs)
DTS-8	2.0	2.0	10.6	10.2	1"	21
DTS-19	5.0	5.0	10.6	19.3	1"	32
DTS-30	8.0	8.0	15.8	15.3	1"	41

Stand models

Model Number	Capacity (Gals)	*Accept. Vol. (Gals)	Diameter (Inches)	Height (Inches)	NPT System Connection	Weight (lbs)
DTS-45	12.0	12.0	15.8	22.4	1"	52
DTS-80	21.0	21.0	15.8	34.9	1"	78
DTS-100	26.5	26.5	19.7	37.3	1"	83
DTS-140	37.0	37.0	19.7	43.3	1"	114

*Acceptance Volume at atmospheric pressure



DTL Series



STANDARD FEATURES AND BENEFITS:

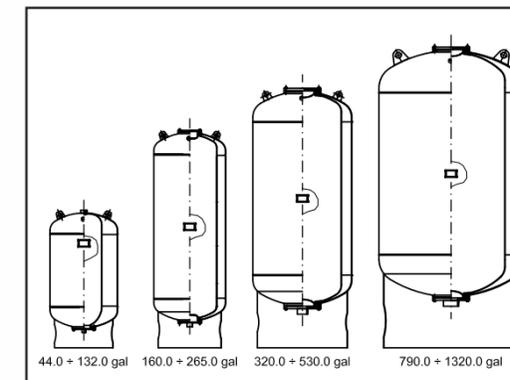
- ASME CODE SECTION VIII, DIV. 1 – U stamped
- Max working pressure: 150 psi
- Max Temperature: 240° F (115° C)
- Factory precharge pressure: 55 psi
- Seamless bladder for longer life
- Heavy Duty reinforced Stand on all models.
- Removable bladder suitable for use with potable water isolates water from the tank eliminating corrosion and rust in the water.
- Strainers keep the bladder wide-open during operation, eliminating water stagnation, and keeps out water debris.
- Epoxy coated system connection.
- FINISH: "Automotive" gray finish paint.
- Acceptance volume: 90% of stated tank capacity (*).

DTL 170 to 1200

- Air valve is inside a protective nipple and covered by 1" 1/4 galvanized plug.
- Bottom bladder flange mount, top with nipple.
- Removable heavy butyl rubber.

DTL 1400 to 5000

- Connection with system gauge and system purging available; the top connection is secured by 1" 1/4 galvanized threaded plug.
- Double lifting lug.
- Available with either top or bottom fill.
- Top-Pro coated top domed strainers.
- Stainless steel bottom domed strainers.



DIMENSIONAL DATA

Stand models – DTL 170 TO 500

Model Number	Capacity (Gals)	*Accept. Vol. (Gals)	Diameter (Inches)	Height (Inches)	NPT System Connection	Weight (lbs)
DTL-170	44.0	44.0	19.7	48.7	1" 1/4	160
DTL-200	53.0	53.0	21.7	47.2	1" 1/4	170
DTL-300	80.0	80.0	25.6	49.0	1" 1/4	215
DTL-400	105.0	105.0	25.6	57.9	1" 1/4	248
DTL-450	120.0	120.0	29.5	55.8	1" 1/4	291
DTL-500	132.0	132.0	35.5	58.0	1" 1/4	309

Stand models – DTL 600 TO 5000

Model Number	Capacity (Gals)	*Accept. Vol. (Gals)	Diameter (Inches)	Height (Inches)	NPT System Connection	Weight (lbs)
DTL-600	160.0	160.0	35.5	61.0	2"	391
DTL-800	210.0	210.0	29.5	91.5	2"	531
DTL-1000	265.0	265.0	31.5	95.5	2"	561
DTL-1200	320.0	320.0	35.5	100.6	3"	960
DTL-1400	370.0	370.0	37.5	102.4	3"	1040
DTL-1600	420.0	420.0	41.5	99.2	3"	1183
DTL-2000	530.0	530.0	43.5	113.5	3"	1318
DTL-3000	790.0	790.0	51.2	118.2	3"	1865
DTL-4000	1060.0	1060.0	61.0	123.0	3"	2616
DTL-5000	1320.0	1320.0	63.0	132.0	3"	2892

*Acceptance Volume at atmospheric pressure