

Engineering Submittal

DTB Interstor Buffer Tanks



Job Name _____

Address

Designer/Engineer _____

Wholesaler

Mechanical Contractor

Model / Quantity ☐ DTB 25 ☐ DTB 55

☐ DTB 80

Date _____

Features

- Stainless Steel construction, pickled & passivated
- 2" of polystyrene foam insulation
- 1 ½" heat source and heating system connections
- Thermal well for aquastat or temperature sensor
- Lightweight for easy installation
- Maintenance free design

Warranties

- 1 year limited parts warranty
- 6 years limited tank warranty

Specifications

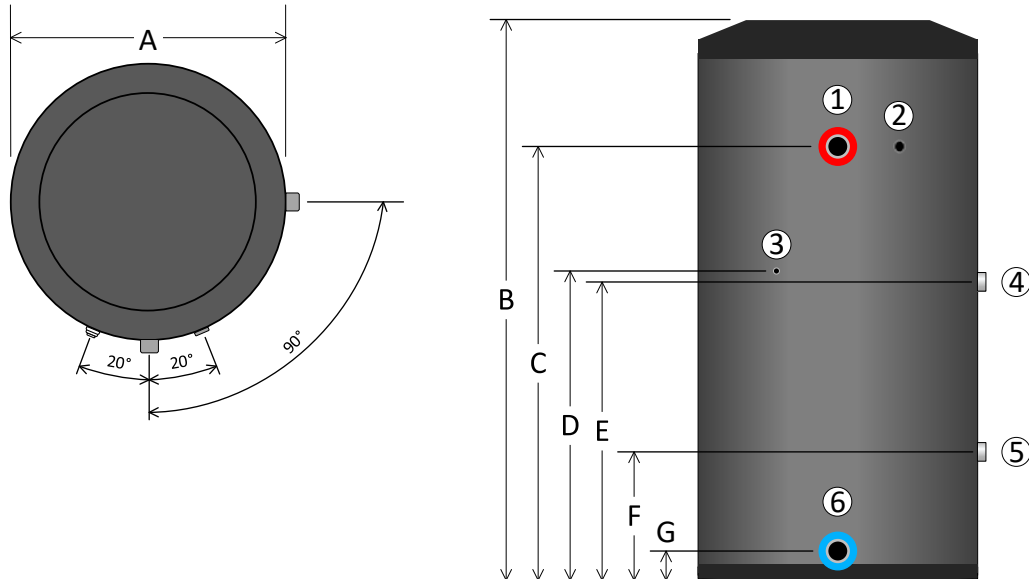
Specification	25	55	80
Diameter	20.1	21.8	23.8
Inches (cm)	(51.1)	(55.5)	(60.4)
Height	38.6	61.7	68.9
Inches (cm)	(98.0)	(156.8)	(175.0)
Volume	26.4	52.8	79.3
Gallons			
Max. Operating Pressure	150	150	150
PSI			
Max. Temperature	210	210	210
°F (°C)	(99)	(99)	(99)
Weight	40	66	86
Pounds (kg)	(18)	(30)	(39)
Shipping Weight	53	84	106
Pounds (kg)	(24)	(38)	(48)
Connection Size	1.5	1.5	1.5
Inches			

Specification	DTI 80	DTI 119	DTI 80-Max	DTI 119-Max
Diameter	23.8	28.9	23.8	28.9
Inches (cm)	(60.4)	(73.4)	(60.4)	(73.4)
Height	69.9	65.8	69.9	65.8
Inches (cm)	(177.6)	(167.2)	(177.6)	(167.2)
Gross DHW Volume	80.2	115	80.2	115
Gallons				
Net DHW Volume	78.0	111.8	75.3	110
USG				
Max. Operating Pressure	150	150	150	150
USG				
Max. DHW Temperature	180	180	180	180
°F (°C)	(82)	(82)	(82)	(82)
Weight	107	143	130	166
Pounds (kg)	(48)	(65)	(59)	(76)
Shipping Weight	118	155	141	178
Pounds (kg)	(53)	(71)	(64)	(81)
Domestic Connection Size	1	1 ½	1 ½	1 ½
Inches				
Boiler Connection Size	1	1 ½	1 ½	1 ½
Inches				
First Hour Delivery*	345	445	484	625
Gallons / Hour				
Continuous Draw*	279	350	428	537
Gallons / Hour				
Boiler Output Required*	178,000	224,000	273,000	343,000
BTU / Hour				
Heating Coil Flow Rate*	13	15	13	25
GPM				
Heating Coil Pressure Drop*	10.5	8.8	7.2	28.0
Feet of Head				
Heating Coil Surface Area	14.2	18.5	26.4	27.6
Ft² (m²)	(1.32)	(1.72)	(2.45)	(2.56)
Certified – Water Heater	✓	✓	✓	✓
Certified – Low Lead	✓	✓	✓	✓

* Based on 180°F boiler supply, 135° DHW and 58°F entering cold water

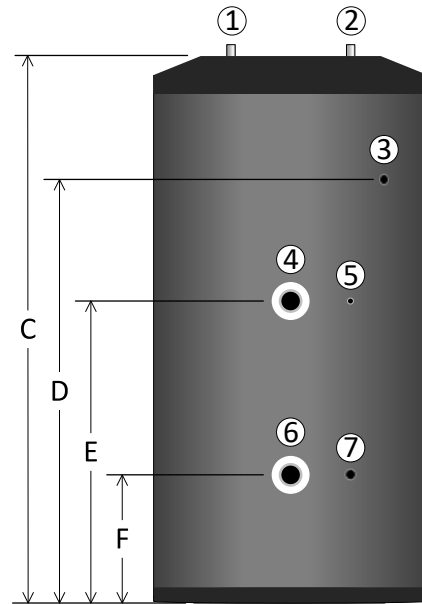
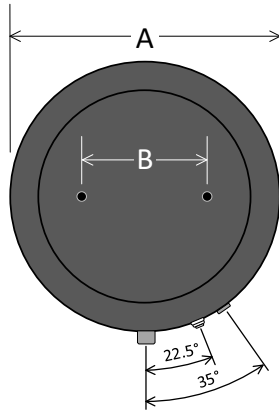
Surface	Minimum Distance from Combustibles	Recommended Distance for Service
Front	1	24
Inches (cm)	(2.5)	(61)
Right, Left, and Rear	1	1
Inches (cm)	(2.5)	(2.5)
Top	1	1
Inches (cm)	(2.5)	(2.5)
Bottom	0	0
Inches (cm)	(0)	(0)

Dimensions



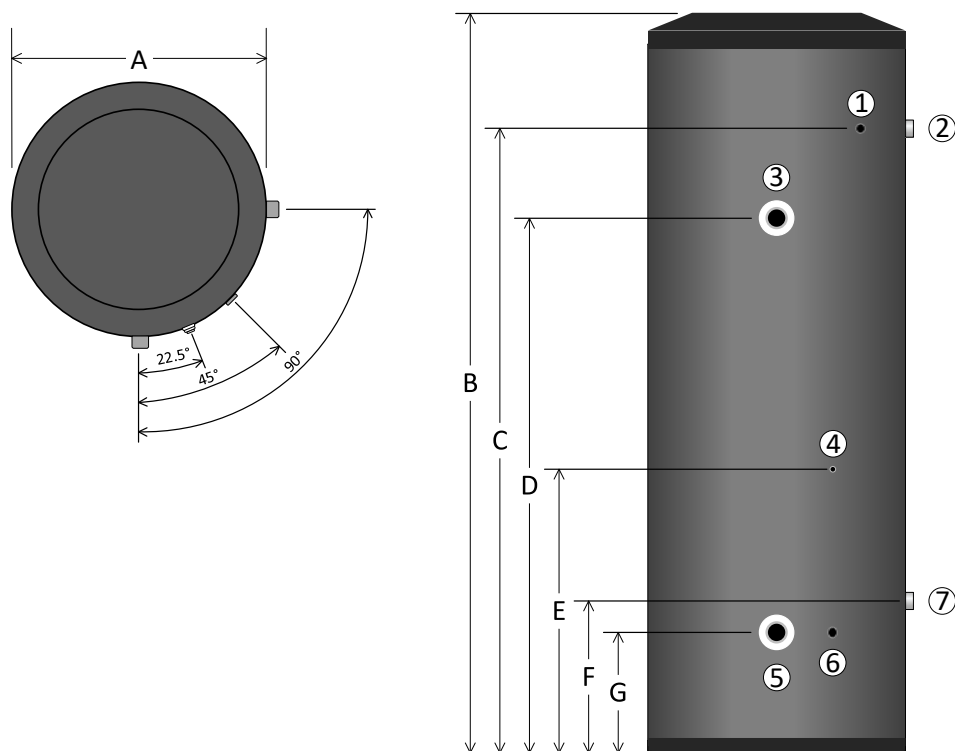
Dimension	DTI 30
A = Diameter	20.1
Inches (cm)	(51.1)
B = Height	39.6
Inches (cm)	(100.6)
C = DHW Outlet & Relief Valve	30.9
Inches (cm)	(78.5)
D = Sensor / Aquastat Well	22.4
Inches (cm)	(57.0)
E = Boiler Supply	22
Inches (cm)	(56.0)
F = Boiler Return	9.5
Inches (cm)	(24.0)
G = DHW Inlet	2.2
Inches (cm)	(5.5)

Legend	DTI 30
1	DHW Outlet (¾" M)
2	T & P Relief Valve (¾" F)
3	Sensor / Aquastat Well
4	Boiler Supply (1" M)
5	Boiler Return (1" M)
6	DHW Inlet (¾" M)



Dimension	DTI 40	DTI 55	DTI 65
A = Diameter	21.8	21.8	23.8
Inches (cm)	(55.5)	(55.5)	(60.4)
B = DHW Inlet & Outlet Center to Center	10.1	10.1	10.1
Inches (cm)	(25.6)	(25.6)	(25.6)
C = Height	46.9	62.8	59.5
Inches (cm)	(119.2)	(159.4)	(151.0)
D = Relief Valve	37	52.8	50.1
Inches (cm)	(93.9)	(134.1)	(127.2)
E = Boiler Supply & Sensor / Aquastat Well	23.6	27.7	26.1
Inches (cm)	(59.9)	(70.4)	(66.2)
F = Boiler Return & Drain	10.2	10.2	9.9
Inches (cm)	(25.9)	(25.9)	(25.2)

Legend	DTI 40, DTI 55, DTI 65
1	DHW Outlet (¾" M)
2	DHW Inlet (¾" M)
3	T & P Relief Valve (¾" F)
4	Boiler Supply (1" M)
5	Sensor / Aquastat Well
6	Boiler Return (1" M)
7	DHW Drain (½" F)



Dimension	DTI 80	DTI 119	DTI 80-Max	DTI 119-Max
A = Diameter	23.8	28.9	23.8	28.9
Inches (cm)	(60.4)	(73.4)	(60.4)	(73.4)
B = Height	69.9	65.8	69.9	65.8
Inches (cm)	(177.6)	(167.2)	(177.6)	(167.2)
C = DHW Outlet & Relief Valve	60.5	52.8	60.1	52.8
Inches (cm)	(153.7)	(134.2)	(152.7)	(134.2)
D = Boiler Supply	30.0	31.7	52.8	42.5
Inches (cm)	(76.2)	(80.5)	(134.2)	(107.9)
E = Sensor / Aquastat Well	30.0	31.7	26.3	34.0
Inches (cm)	(76.2)	(80.5)	(66.7)	(86.2)
F = DHW Inlet	12.1	13.3	12.3	13.9
Inches (cm)	(30.7)	(33.7)	(31.2)	(35.2)
G = Boiler Return & Drain	9.9	11.5	9.9	11.5
Inches (cm)	(25.2)	(29.2)	(25.2)	(29.2)

Legend	DTI 80	DTI 119, DTI 80-Max, DTI 119-Max
1	T & P Relief Valve (¾" F)	T & P Relief Valve (1" F)
2	DHW Outlet (1" M)	DHW Outlet (1½" M)
3	Boiler Supply (1" M)	Boiler Supply (1½" M)
4	Sensor / Aquastat Well	Sensor / Aquastat Well
5	Boiler Return (1" M)	Boiler Return (1½" M)
6	DHW Drain (½" F)	DHW Drain (½" F)
7	DHW Inlet (1" M)	DHW Inlet (1½" M)