

BACKSTOP[®] Diaphragm Type Thermal Expansion Tanks

A SERIES (Non-ASME) SUBMITTAL

Lit.# BSASUB-810

TYPE: NON-ASME THERMAL EXPANSION TANKS FOR RESIDENTIAL WATER SYSTEMS

MODELS: 12-A101; 12A102; 12-A110; 12-A103; 12-A104

Job _____	BackStop Rep. _____		
Unit Tag No. _____	Order No. _____	Date _____	
Engineer _____	Submitted By _____	Date _____	
Contractor _____	Approved By _____	Date _____	

MATERIALS:

Shell: Carbon Steel

System Connection: Stainless Steel

Coating: Triple Layer Electrostatic Almond Paint

Diaphragm: Heavy Duty Butyl Rubber

Liner Material: FDA Grade Polypropylene

Factory Pre-set Pressure: 50 PSI

OPERATING LIMITATIONS:

Maximum Design Pressure: 150 PSI (1035 kPa)

Maximum Design Temperature: 200° F (93° C)

APPLICATION:

BackStop[®] 12-A Series Tanks are fixed diaphragm type pre-charged thermal expansion tanks. They are designed to absorb the expansion forces and control the pressure in potable water systems. The water is separated using the heavy duty diaphragm preventing tank corrosion and waterlogging.

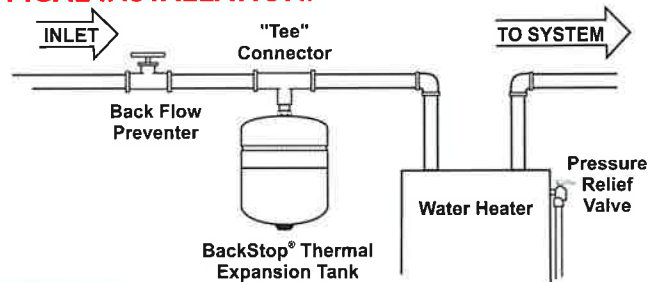
Model No.	Volume (liter)	Volume (gal.)	Height	Diameter	Sys. Conn.	Wt. (lbs.)
12-A101	8	2	12-1/2"	8"	3/4"	5
12-A102	18	4.5	15"	11"	3/4"	9
12-A110	37.8	10	20"	11-1/2"	3/4"	13.5
12-A103	55	14	19-7/8"	15-1/2"	1"	19
12-A104	80	20	27"	15-1/2"	1"	27



MODELS:
12-A101; 12-A102;
12-A110
12-A103; 12-A104 IAPMO Certified



TYPICAL INSTALLATION:



SCHEDULE:

Model Number	Tank Volume Gallons	Acceptance Volume Gallons	Tagging Information	Quantity
A101	2	1.2		
A102	4.5	3.2		
A110	10	6.25		
A103	14	8.5		
A104	20	12.6		

SPECIFICATIONS:

Furnish and install as shown on plans a _____ gallon _____" diameter x _____" (high) pre-charged steel thermal expansion tank with a fixed butyl diaphragm. The tank shall have a top NPT system connection and a .301" - 32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements.

Each tank shall be BackStop[®] model number _____ or approved equal.