

BACKSTOP®

Diaphragm Type Thermal Expansion Tanks

AC SERIES (ASME) SUBMITTAL

Lit.# BSACSUB-810

TYPE: PRE-PRESSURIZED THERMAL EXPANSION TANKS FOR RESIDENTIAL WATER SYSTEMS

MODELS: 12-AC5; 12-AC12; 12-AC20; 12-AC30; 12-AC42; 12-AC60; 12-AC60; 12-AC80; 12-AC100;
12-AC125; 12-AC160; 12-AC180; 12-AC210

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: Primer
Diaphragm: Heavy Duty Butyl Rubber
Liner Material: Food Grade Polypropylene
Factory Pre-set Pressure: 35 PSI

OPERATING LIMITATIONS:

Maximum Design Pressure: 150 PSI (1035 kPa)
Maximum Design Temperature: 240° F (93° C)



APPLICATION:

BackStop® AC (ASME) 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 (gal.)	Accept Volume	Height	Diameter	Sys. Conn.	Wt. (lbs.)
12-AC5	3.5	2.1	14"	8"	3/4"	22
12-AC12	5	3.1	14"	11"	3/4"	28
12-AC20	8	3.1	20"	15-1/2"	3/4"	34
12-AC30	15	10	23"	15-1/2"	3/4"	64
12-AC42	22	14.7	32"	15-1/2"	1"	88
12-AC60	26	15.5	34"	22"	1"	93
12-AC80	35	15.5	45"	16"	1"	109
12-AC100	45	21	38"	20"	1"	148
12-AC125	60	21	49"	20"	1"	175
12-AC160	70	46.7	46"	24"	1-1/2"	259
12-AC180	80	52.5	49"	24"	1-1/2"	268
12-AC210	90	52.5	52"	24"	1-1/2"	283

SPECIFICATIONS:

Furnish and install as shown on plans a _____ gallon _____" diameter x _____" (high) pre-charged steel 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. The tank must be constructed and stamped in accordance with Section VIII of the ASME Boiler and Pressure Vessel Code.

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

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