

BACKSTOP® Diaphragm Type Hydronic Expansion Tanks

12-HC SERIES (ASME) SUBMITTAL

TYPE: PRE-PRESSURIZED HYDRONIC EXPANSION TANKS

MODELS: 12-HC 15 thru 12-HC 280

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

MATERIALS:

Shell: Carbon Steel

System Connection: Carbon Steel

Coating: Epoxy

Diaphragm: Heavy Duty Butyl Rubber

Factory Pre-set Pressure: 12 PSI

APPLICATION:

BackStop® 12-HC (ASME) Series Tanks are fixed diaphragm type pre-charged expansion tanks. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system's expanded water (fully compatible with water/glycol mixtures) is contained in the heavy duty diaphragm that prevents tank corrosion and waterlogging problems. All 12-HC expansion tanks can be installed vertically or horizontally.

OPERATING LIMITATIONS:

Maximum Design Pressure: 125 PSIG*

Maximum Design Temperature: 240° F

12-HC 15 thru 12-HC 60: 150 PSIG*

12-HC 80 thru 12-HC 280: 125 PSIG*

*200 & 250 PSIG available

Model No.	Volume (gal.)	Accept Volume	Height	Diameter	Sys. Conn.	Wt. (lbs.)	Tagging Information	Quantity
12-HC 15	8	5	19"	12"	3/4"	44		
12-HC 20	11	5	26"	12"	3/4"	47		
12-HC 40	25	11	33"	16"	1"	90		
12-HC 60	35	11	45"	16"	1"	111		
12-HC 80	45	21	32"	20"	1"	147		
12-HC 100	60	21	49"	20"	1"	167		
12-HC 120	70	53	46"	24"	1-1/2"	225		
12-HC 144	80	53	49"	24"	1-1/2"	245		
12-HC 180	90	53	52"	24"	1-1/2"	265		
12HC 200	115	53	66"	24"	1-1/2"	295		
12-HC 240	140	53	78"	24"	1-1/2"	425		
12-HC 260	158	56	61"	30"	1-1/2"	475		
12-HC 280	211	84	79"	30"	1-1/2"	645		



Furnish and install as shown on plans a _____ gallon _____" diameter x _____" (high) pre-charged steel expansion tank with a heavy-duty butyl rubber diaphragm. The tank shall have a top NPT system connection 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 most recent addendum of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code.

Each tank shall be BackStop® model number 12-HC _____ or approved equal.