



BACKSTOP®

Hydronic Expansion Tanks

www.backstop.net

PRODUCT DETAILS

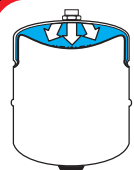
Factory Pre-Charge	12 PSI (adjustable)
System Connection	Deep-Drawn Steel
Diaphragm	Heavy-Duty Butyl Rubber
Coating	Metallic Silver Epoxy
Max. Operating Temp.	210° F - 99° C
Max. Working Pressure	150 PSI - 1035 kPa

HOW IT WORKS



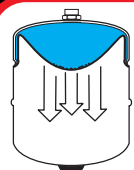
Stage 1

As the system is filled with cold water, the fill pressure is matched by the BackStop tank precharge, which keeps the diaphragm evenly distributed inside the tank.



Stage 2

When system water temperature rises, the BackStop safety tank accommodates for the increasing expanded water.



Stage 3

Once the system water temperature is at maximum, water expansion causes the BackStop diaphragm to flex. This continually protects the system and allows for safe operation over the long term.



WARNING

BackStop® pre-pressurized hydronic expansion tanks are intended for non-potable water heating applications only. Do not use for open or domestic water systems. Any use of the product for purposes other than what it was intended for, is UNSAFE and may cause property damage, serious bodily injury or may result in death.

BackStop® H Series Hydronic Expansion Tanks are diaphragm type tanks designed to keep system pressures below relief valve settings. BackStop® Tanks absorb the expansion of water in residential or commercial hydronic (forced hot water) heating and cooling systems. Without BackStop® Tanks, the system will quickly over-pressurize resulting in added stress to the various system components. BackStop® protects safety valves from failing or wearing out quickly, avoids valve stem and ball seal leaks, prevents wasted BTUs, and vastly extends water heater life.

AVAILABLE MODELS

Model	Volume (liters)	Volume (gal)	Height	Diameter	Sys. Con.	Ship Wt.
H-15	8	2.1	12-1/2"	8"	1/2"	4.5 lbs
H-30	18	4.8	15"	11"	1/2"	8 lbs
H-60	22	6	16-7/8"	15-1/2"	1/2"	9.5 lbs
H-90	53	14	19-7/8"	15-1/2"	1/2"	19 lbs
HX-30	53	14	24-7/8"	15-1/2"	1"	22 lbs
HX-40	78	20	27"	15-1/2"	1"	27 lbs
HX-60	121	32	27-1/2"	22"	1"	46 lbs
HX-90	151	40	36-1/2"	22"	1"	60 lbs

HX designates stand models.

Select ASME models are also available. Please call for further details.



BackStop® Tanks are finished with an appliance quality coating that is resistant to sunlight and harsh conditions. For added safety, all tanks are completely hard free.

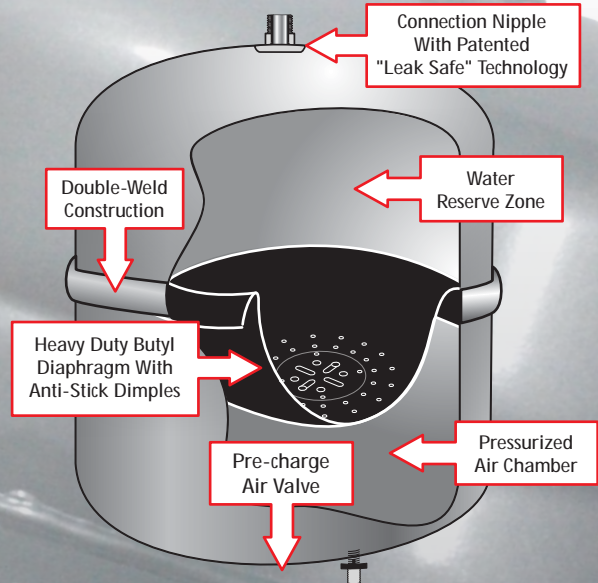
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QUICK SELECTION GUIDE

Net Output in 1000's of BTU per Hour	Finned Tube Baseboards or Radiant Panels	Convectors or Unit Heaters	Cast Iron Radiators	Cast Iron Baseboards
25	H-15	H-15	H-15	H-15
50	H-15	H-15	H-30	H-30
75	H-30	H-30	H-30	H-60
100	H-30	H-30	H-60	H-60
125	H-30	H-60	H-60	H-90
150	H-30	H-60	H-90	H-90
175	H-60	H-60	H-90	H-90
200	H-60	H-60	H-90	H-90
250	H-60	H-90	H-90	CALL
300	H-90	H-90	H-90	CALL
350	H-90	H-90	CALL	CALL
400	H-90	CALL	CALL	CALL



AVERAGE SYSTEM TEMPERATURE (F°)

System Content	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
25	H-15	H-15	H-15	H-15	H-15	H-15	H-15	H-15	H-15	H-15	H-30	H-30	H-30	H-30	H-30
50	H-15	H-15	H-15	H-15	H-15	H-30	H-30	H-30	H-30	H-30	H-30	H-60	H-60	H-60	H-60
75	H-15	H-15	H-15	H-30	H-30	H-30	H-30	H-30	H-60	H-60	H-60	H-90	H-90	H-90	H-90
100	H-15	H-15	H-30	H-30	H-30	H-30	H-60	H-60	H-90	H-90	H-90	H-90	H-90	H-90	H-90
200	H-30	H-30	H-30	H-60	H-60	H-60	H-90	H-90	call	call	call	call	call	call	call
300	H-30	H-60	H-90	H-90	H-90	H-90	call	call	call	call	call	call	call	call	call
400	H-60	H-90	H-90	H-90	call	call	call	call	call	call	call	call	call	call	call
500	H-90	H-90	H-90	call	call	call	call	call	call	call	call	call	call	call	call
600	H-90	H-90	call	call	call	call	call	call	call	call	call	call	call	call	call
700	H-90	H-90	call	call	call	call	call	call	call	call	call	call	call	call	call
800	H-90	call	call	call	call	call	call	call	call	call	call	call	call	call	call
900	H-90	call	call	call	call	call	call	call	call	call	call	call	call	call	call



WARNING

BackStop® tanks must be installed only by a qualified, licensed professional in accordance with local plumbing codes. Maintenance inspections of the complete heating system should be performed by a licensed plumber annually. The tank's pre-charge should be tested and adjusted to the correct pressure as needed.

"The Expansion Tank Preferred by the Pros."