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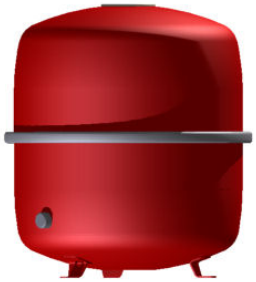
BOSS Heating - Expansion Vessels

Range: BOSS Heating expansion vessels for use on domestic and commercial sealed systems. Covered by the CE mark for design safety on pressure equipment 97/23/EC.

2 to 25 litre



35 to 80 litre

100 to 1000 litre

Innovation: The pre-charge is Nitrogen gas and is used for its low permeability across the Butyl diaphragm.

Description: For sealed heating and chilled systems volume (Non potable systems), suitable for Glycol (Anti-freeze) concentrations of 50% by volume and a Maximum working pressure typically 3 bar(g), conforming to the Pressure Equipment Directive 97/23/EC.

BOSS Heating expansion vessels are typically suitable for a maximum fluid temperature of 70°C, and as such should normally be installed to prevent the temperature exceeding this value at the vessel diaphragm. For systems with elevated temperatures, consideration must be made to radiate heat away from the system fluid before it reaches the expansion vessel.

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Type	Vessek			Pre-Charge (bar)	Weight (Kg)	Mounting
	Diameter (mm)	Height (mm)	Connection			Horizontal Vertical
BOSS Heating 2	216	144	¾“ M	0.5	1.5	H or V
BOSS Heating 4	216	194	¾“ M	0.5	1.8	H or V
BOSS Heating 8	245	304	¾“ M	1.5	2,2	H or V
BOSS Heating 12	286	336	¾“ M	1.5	2,7	H or V
BOSS Heating 18	328	328	¾“ M	1.5	3,7	H or V
BOSS Heating 25	358	380	¾“ M	1.5	4,5	H or V
BOSS Heating 35	396	439	¾“ M	1.5	5,4	H or V
BOSS Heating 50	437	495	¾“ M	1.5	11,2	H or V
BOSS Heating 80	519	551	1“ M	2.0	15,0	V
BOSS Heating 100	484	784	1" M	2.0	23,8	V
BOSS Heating 150	484	1024	1" M	2.0	27,6	V
BOSS Heating 200	484	1300	1" M	2.5	38,1	V
BOSS Heating 250	600	1153	1" M	2.5	51,7	V
BOSS Heating 300	600	1330	1" M	2.5	56,9	V
BOSS Heating 350	790	1027	1" M	2.5	69,0	V
BOSS Heating 400	790	1180	1" M	2.5	76,4	V
BOSS Heating 500	790	1330	1" M	2.5	83,7	V
BOSS Heating 600	790	1538	1" M	2.5	92,9	V
BOSS Heating 800	790	1888	1" M	2.5	126,9	V
BOSS Heating 1000	790	2268	1" M	2.5	145,9	V

BOSS Heating

Type	Maximum Efficiency	Maximum Pre-Charge (bar)	Maximum Working Pressure (bar)	Maximum Working Temperature	Minimum Working Temperature
BOSS Heating 2	60%	1.5	3	70 °C	-10 °C
BOSS Heating 4	60%	1.5	3	70 °C	-10 °C
BOSS Heating 8	60%	1.5	3	70 °C	-10 °C
BOSS Heating 12	60%	1.5	3	70 °C	-10 °C
BOSS Heating 18	60%	1.5	3	70 °C	-10 °C
BOSS Heating 25	60%	1.5	3	70 °C	-10 °C
BOSS Heating 35	60%	1.5	3	70 °C	-10 °C
BOSS Heating 50	60%	3.0	6	70 °C	-10 °C
BOSS Heating 80	60%	3.0	6	70 °C	-10 °C
BOSS Heating 100	60%	3.0	6	70 °C	-10 °C
BOSS Heating 150	60%	3.0	6	70 °C	-10 °C
BOSS Heating 200	60%	3.0	6	70 °C	-10 °C
BOSS Heating 250	60%	3.0	6	70 °C	-10 °C
BOSS Heating 300	60%	3.0	6	70 °C	-10 °C
BOSS Heating 350	60%	3.0	6	70 °C	-10 °C
BOSS Heating 400	60%	3.0	6	70 °C	-10 °C
BOSS Heating 500	60%	3.0	6	70 °C	-10 °C
BOSS Heating 600	60%	3.0	6	70 °C	-10 °C
BOSS Heating 800	50%	3.0	6	70 °C	-10 °C
BOSS Heating 1000	40%	3.0	6	70 °C	-10 °C