



## HEATING LINE EXPANSION VESSEL

The expansion vessel for heating systems makes available the volume for water dilation due to temperature increments, and keeps the system safe to dangerous pressure variations. The working of the expansion vessels is more important during system start-up, when water temperature rises very quickly.

- Membrane resistant to peaks of 130° Pre charge pressure 2,5 bar

		-10-+130°C						
ESTECH -EV-HS	-10 +130 °C	Model	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
			lt	bar	inch	mm	m <sup>3</sup>	n.
		EV-HS-05	5	10	3/4'	160x325	0.020	210
		EV-HS-08	8	10	3/4'	200x330	0.031	144
		EV-HS-12	12	10	3/4'	270x310	0.024	84
		EV-HS-18	18	10	3/4'	270x415	0.034	56
		EV-HS-25	25	10	3/4'	290x460	0.041	63
		EV-HS-40	40	10	3/4'	320x580	0.066	36

*Stainless steel crimped flange, fixed membrane, red color, max pressure 8 bar*  
*Stainless steel screwed flange, replaceable membrane, red color, max pressure 10 bar*

		-10-+130°C						
ESTECH -EV-HS	-10 +130 °C	Model	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
			lt	bar	inch	mm	m <sup>3</sup>	n.
		EV-HS-050	50	10	3/4'	380x620	0,104	25
		EV-HS-060	60	10	3/4'	380x670	0,116	25
		EV-HS-080	80	10	3/4'	450x650	0,135	20
		EV-HS-100	100	10	1'	450x730	0,173	15
		EV-HS-150	150	10	1'½	554x810	0,265	8
		EV-HS-200	200	10	1'½	554x988	0,324	8
		EV-HS-300	300	10	1'½	624x1160	0,481	6
		EV-HS-500	500	8	1'½	775x1250	0,770	1

*Stainless steel screwed flange, replaceable membrane, red color*

### HEAT LOSS

The heat loss in expansion vessels with a diaphragm membrane is 60 % higher compared to balloon membrane vessels.

Bladder expansion tanks provide a better insulation, while in membrane vessels the heated water is in direct contact with the metal plate for almost half of the vessels surface

