



 **VAREM**<sup>®</sup>  
catalogue  
2022





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## THE COMPANY

Varem's operations currently take place in the plants in Bovolenta, where it has its registered office, and in Limena (Padova).

In the two Bovolenta plants small tanks are produced and membranes are molded, and it is here that the logistics department is located, with a warehouse from which all products are shipped.

The plants in Limena contain the Management offices, the R&D laboratories, the tooling department and it is here that all other products are manufactured; the offices for the design and prototyping of new products and production lines are also located here.

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## THE ORIGINS OF SUCCESS

Varem's history is closely linked, as origins, territoriality and company culture, to the north-east of Italy. In the post-war period, the economy and industrial development of this geographical area of the country exploded exponentially, thanks to the hard work, creativity and courage to enter into business of the tireless Veneto people.

It was in this context that Luigino Benettolo founded Varem, helping to make Veneto one of the most highly industrialized areas in the world, promoting and raising the awareness of "Made in Italy" throughout the world as synonym of quality, reliability and cutting edge technology.

First as forerunner and then as leader in the field of expansion vessel and autoclave manufacture, Varem has always remained coherent with its origins, constantly strengthening its leadership position over time and simultaneously setting the standard for competitors and for the market.



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NEW PRODUCTS

ELECTRONIC PUMP CONTROLLER  
WITH BUILT-IN 3 L PRESSURE TANK



AQUAVAREM  
PRESSURE TANKS WITH DIAPHRAGM MEMBRANE

STARVAREM  
DIAPHRAGM EXPANSION VESSELS FOR  
HEATING SYSTEMS







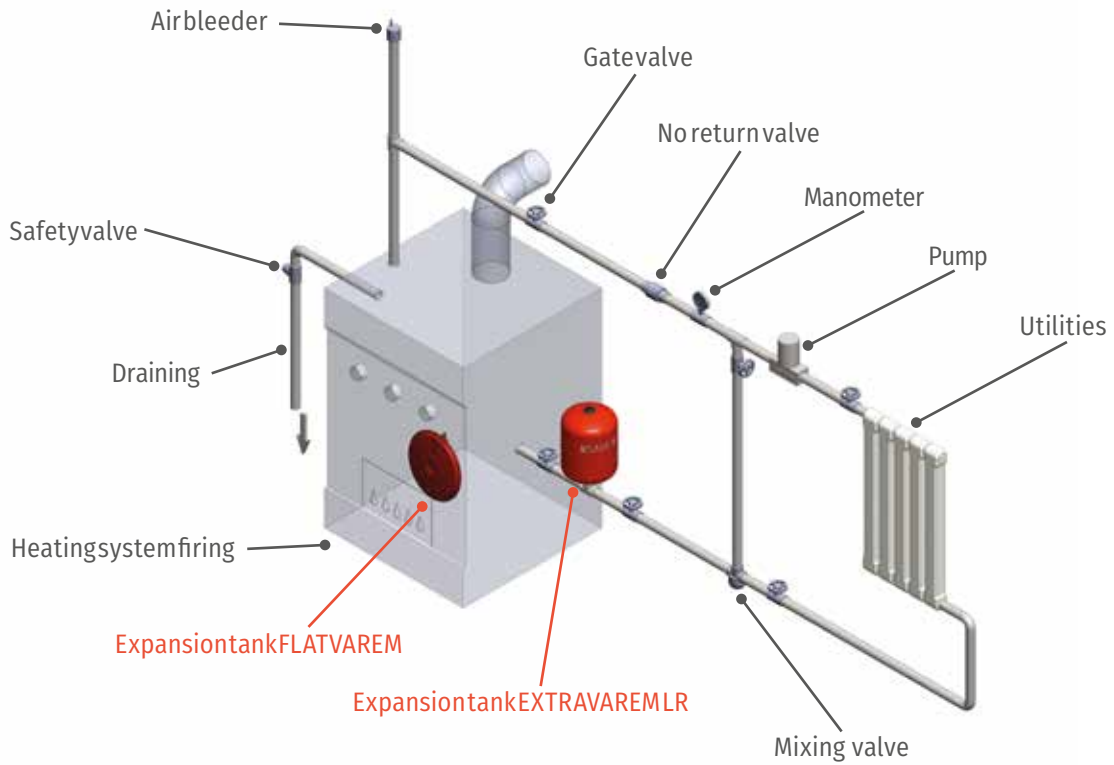
## HEATING LINE

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.

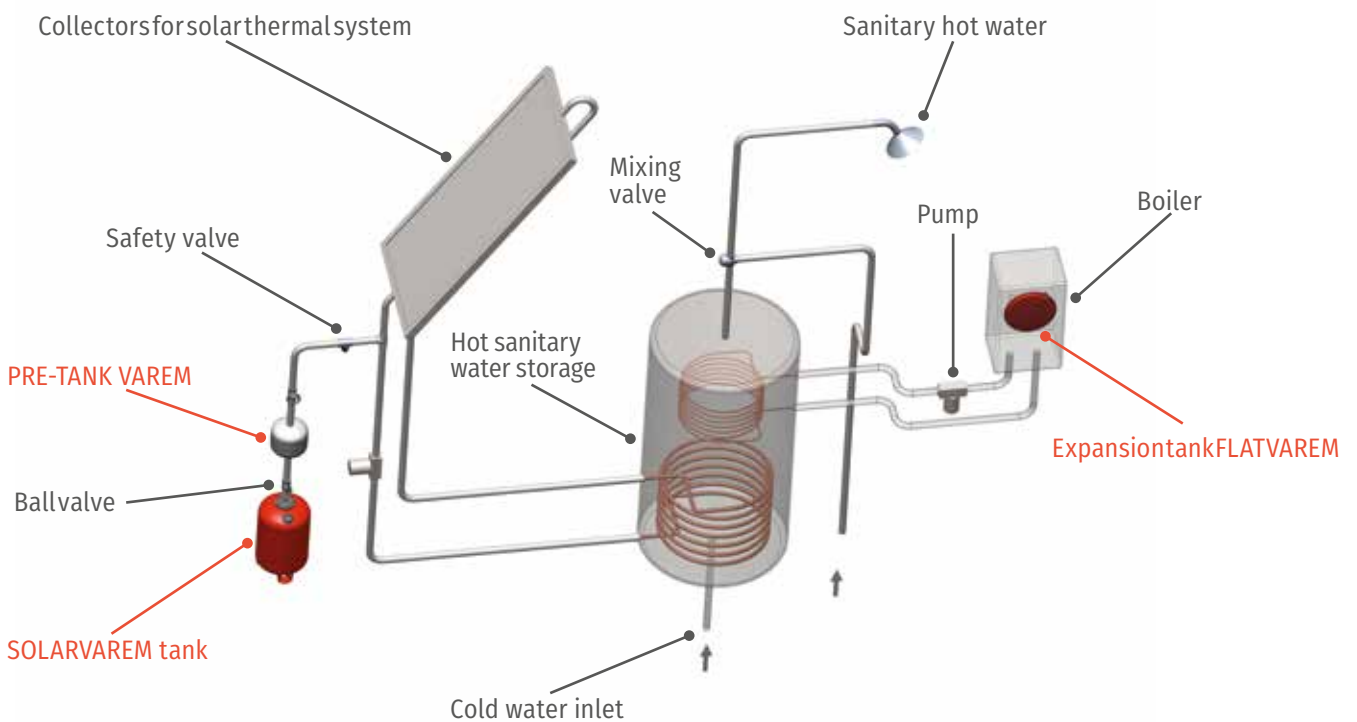
The working of the expansion vessels is more important during system start-up, when water temperature rises very quickly.



SCHEME OF A HEATING SYSTEM



SCHEME OF A SOLAR SYSTEM



## EXPANSION VESSELS FOR HEATING SYSTEMS

- Galvanized carbon steel flange up to 400 L, coated from 500 lt to 1000 L
- Pre charge pressure 1.5 bar
- Red color

### EXTRAVAREM LR CE -10 +99 °C



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
	L	bar	inch	mm	m <sup>3</sup>	n.
R1005231CS000000	5*	6	3/4"	160x325	0.019	210
R1008231CS000000	8*	6	3/4"	200x330	0.031	144
UR012231CS000000	12	6	3/4"	270x325	0.024	84
UR018231CS000000	18	6	3/4"	270x415	0.034	56
UR025231CS000000	25	6	3/4"	290x460	0.041	63
UR040231CS000000	40	5	3/4"	320x580	0.068	36

Fixed membrane, crimped flange

### MAXIVAREM LR CE -10 +99 °C



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
	L	bar	inch	mm	m <sup>3</sup>	n.
UR035231CS000000	35	5	3/4"	320X525	0.064	42
UR050271CS000000	50	6	3/4"	380X620	0.104	25
UR060371CS000000	60	6	1"	380X670	0.116	25
UR080371CS000000	80	6	1"	450X650	0.135	20
UR100371CS000000	100	6	1"	450X730	0.173	15
UR150471CS000000	150	6	1 1/2"	554X810	0.265	8
UR200471CS000000	200	6	1 1/2"	554X988	0.324	8
UR250471CS000000	250	6	1 1/2"	624X1006	0.423	6
UR300471CS000000	300	6	1 1/2"	624X1160	0.481	6
UR400471CS000000	400	6	1 1/2"	624X1520	0.77	6
UR500471CS000000	500	6	1 1/2"	790X1250	1.126	1
UR600471CS000000	600	6	1 1/2"	790X1525	1.349	1
UR700471CS000000	700	6	1 1/2"	790X1635	1.438	1
URN10H61CS000000	1000	6	2"	930X1913	2.2	1

Replaceable membrane, screwed flange from 50 lt

### STARVAREM -10 +99 °C



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
	L	bar	inch	mm	m <sup>3</sup>	n.
UR0352E1CS000000	35	6	3/4"	320x500	0.06	42
UR0502E1CS000000	50	6	3/4"	381x555	0.08	25
UR0803E1CS0ST000	80	10	1"	451x732	0.16	12
UR1003E1CS0ST000	100	10	1"	451x806	0.17	12
UR1503E1CS0ST000	150	10	1"	451x1027	0.22	6
UR2003E1CS0ST000	200	10	1"	550x1076	0.33	6
UR2803E1CS0ST000	280	10	1"	550x1385	0.43	6
UR430VE1CS0ST000	430	10	1 1/4"	630x1580	0.66	6

Diaphragm membrane  
Side connection for 35-50 lt

## EXPANSION VESSELS FOR SOLAR SYSTEMS

- Membrane resistant to peaks of 130°  
Pre charge pressure 2.5 bar

### SOLARVAREM CE -10 +130 °C



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
	L	bar	inch	mm	m <sup>3</sup>	n.
R80052**S4000000	5*	**	3/4"	160x325	0.020	210
R80082**S4000000	8	**	3/4"	200x330	0.031	144
R80122**S4000000	12	**	3/4"	270x310	0.024	84
R80182**S4000000	18	**	3/4"	270x415	0.034	56
R80252**S4000000	25	**	3/4"	290x460	0.041	63
R80402**S4000000	40	**	3/4"	320x580	0.066	36

\*\*Configurations:

- 41. stainless steel crimped flange, fixed membrane, red color, max pressure 8 bar
- 43. stainless steel crimped flange, fixed membrane, white color, max pressure 8 bar
- 81. stainless steel screwed flange, replaceable membrane, red color, max pressure 10 bar

### SOLARVAREM CE -10 +130 °C



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
	L	bar	inch	mm	m <sup>3</sup>	n.
R8040281S400P000	40	10	3/4"	320x525	0.064	42
R8050281S4000000	50	10	3/4"	380x620	0.104	25
R8060281S4000000	60	10	3/4"	380x670	0.116	25
R8080281S4000000	80	10	3/4"	450x650	0.135	20
R8100381S4000000	100	10	1"	450x730	0.173	15
R8150481S4000000	150	10	1 1/2"	554x810	0.265	8
R8200481S4000000	200	10	1 1/2"	554x988	0.324	8
R8300481S4000000	300	10	1 1/2"	624x1160	0.481	6
R8500481S4000000	500	10	1 1/2"	790x1250	1.126	1

Stainless steel screwed flange, replaceable membrane, red color

### SOLARVAREM CE for oil -10 +60°C



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
	L	bar	inch	mm	m <sup>3</sup>	n.
R8005241S4019000	5*	8	3/4"	160x325	0.020	210
R8008241S4019000	8*	8	3/4"	200x330	0.031	144
R8012241S4019000	12	8	3/4"	270x310	0.024	84
R8018241S4019000	18	8	3/4"	270x415	0.034	56
R8025241S4019000	25	8	3/4"	290x460	0.066	63

Fixed membrane, suitable for oil, max temperature 60°C, stainless steel flange, precharge pressure 2.5 bar, 2 L. available on demand  
\*CE mark not applicable for 5 and 8 l tanks

### SOLAR PRE-TANK



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/pallet
	L	bar	inch	mm	m <sup>3</sup>	n.
RX 012	12	10	3/4"	270x320	0.032	84
RX 018	18	10	3/4"	270x450	0.042	56

Steel tank with double connections (M/F) for decreasing the temperature in the solar systems



## FLAT AND OVAL EXPANSION VESSELS FOR BOILERS

- Diaphragm fix membrane
- Pre charge pressure 1 bar
- Red color

### FLATVAREM -10 +99 °C



Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/box
	L	bar	inch	mm	m <sup>3</sup>	n.
C200623100000000	6	3	3/4"	325x103	0.052	4
C200823100000000	8	3	3/4"	325x128	0.060	4
C201023100000000	10	3	3/4"	325x136	0.067	4
C201223100000000	12	3	3/4"	325x160	0.074	4
C100623100000000	6	3	3/4"	385x86	0.078	5
C100723100000000	7	3	3/4"	385x92	0.078	5
C100823100000000	8	3	3/4"	385x103	0.088	5
C101023100000000	10	3	3/4"	385x110	0.095	5
C101223100000000	12	3	3/4"	385x142	0.092	4
C101423100000000	14	3	3/4"	385x160	0.097	4
C101823100000000	18	3	3/4"	385x190	0.033	1

### FLATVAREM -10 +99 °C



Standard Code	Size	Max. pressure	Connection	Dimensions	Packaging	Qty/box
	L	bar	inch	mm	m <sup>3</sup>	n.
C6007931000SN000	7	3	3/8"	203x504x66	0.08	2
C600893100000000	8	3	3/8"	203x504x74	0.09	2
C601093100000000	10	3	3/8"	203x504x107	0.09	1
C601223100000000	12	3	3/4"	203x504x116	0.09	1
C601423100000000	14	3	3/4"	203x504x128	0.10	1

Connection 1/4", 3/8", 1/2", 3/4" radial or axial can be available upon request

### EXTRAVAREM LR -10 +99 °C



OVAL SHAPE EXPANSION VESSELS						
fix membrane tanks, galvanised steel flange						
Standard Code	Capacity	Max. pressure	Connection	Dimensions	Packaging	Qty/box
	L	bar	inch	mm	m <sup>3</sup>	n.
C7007231CSG00000	7.5	4	3/4"	110x493x192	0.08	144
C7010231CS000000	10	4	3/4"	110x633x192	0.08	56