

Flexcon Expansion Vessels

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Flamco produces a comprehensive range of diaphragm expansion vessels. Both the steel vessel and the diaphragm are of the highest quality. They are compliant with all prevailing European standards and carry the CE mark of conformity. Flamco vessels are available for both potable, chilled and heated water systems in sizes ranging from 2 litres up to 8,000 litres.

Flexcon 2 - 80



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Contra-Flex 2 - 80



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Contra-Flex 100 - 1000



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Cubex 8 - 80



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Flexcon P 18 - 50



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Cubex R 12 - 18



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Flexcon VSV - 6.0 bar



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Flexcon VSV - 10.0 bar



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Flexcon V-B - 10.0 bar



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SELECTION FLEXCON EXPANSION VESSELS ACCORDING TO EN12828

Specified values have been calculated for a flow temperature of 80 °C.

Opening pressure of the safety valve: 3 bar.

Closed water-based heating systems according to EN 12828.

Water reserve: 0.5% of the installation volume with a minimum of 3 liters*.

* Flamco recommends to use a 6-liter minimum.

Selection Table

Expansion vessel		Static height [mWS]	Heating capacity installed		
Volume [l]	Precharge [bar]		Radiators (8,8 dm³/kW) [kW]	Air Treatment (6,9 dm³/kW) [kW]	Low Temperature Heating (<50 °C) (15 dm³/kW) [kW]
8	0.5	3	6	8	8
12	0.5	3	15	19	21
18	0.5	3	29	37	40
25	0.5	3	45	58	56
35	0.5	3	68	87	78
50	0.5	3	97	124	112
80	0.5	3	156	199	180
110	0.5	3	215	274	247
140	0.5	3	273	349	315
200	0.5	3	391	498	450
300	0.5	3	586	748	676
425	0.5	3	831	1060	958
600	0.5	3	1173	1496	1352
800	0.5	3	1564	1995	1803
1000	0.5	3	1955	2494	2254
12	1	8	8	11	12
18	1	8	18	24	26
25	1	8	31	39	42
35	1	8	48	61	59
50	1	8	73	93	84
80	1	8	117	149	135
110	1	8	161	205	185
140	1	8	205	261	236
200	1	8	293	374	338
300	1	8	440	561	507
425	1	8	623	795	718
600	1	8	880	1122	1014
800	1	8	1173	1496	1352
1000	1	8	1466	1870	1690
18	1.5	13	8	11	12
25	1.5	13	16	21	23
35	1.5	13	28	35	39
50	1.5	13	45	58	56
80	1.5	13	78	99	90
110	1.5	13	107	137	123
140	1.5	13	136	174	157
200	1.5	13	195	249	225
300	1.5	13	293	374	338
425	1.5	13	415	530	479
600	1.5	13	586	748	676
800	1.5	13	782	997	901
1000	1.5	13	977	1247	1127

FLEXCON

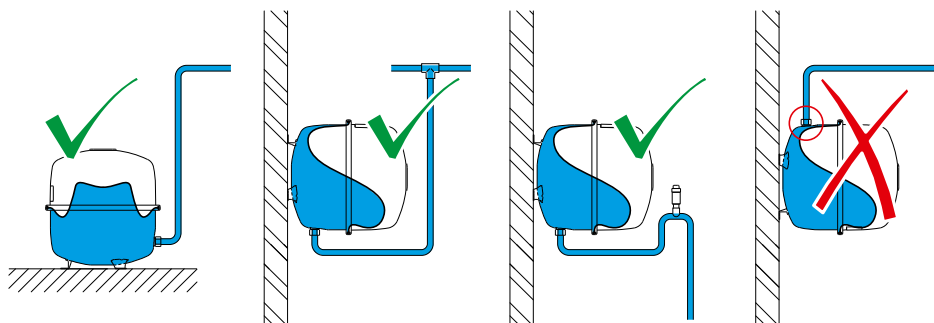
For sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.

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When the temperature in the installation rises, the system water will expand. The 'expansion water' is stored temporarily in the expansion vessel to keep the pressure in the installation at the correct level.

Flexcon advantages

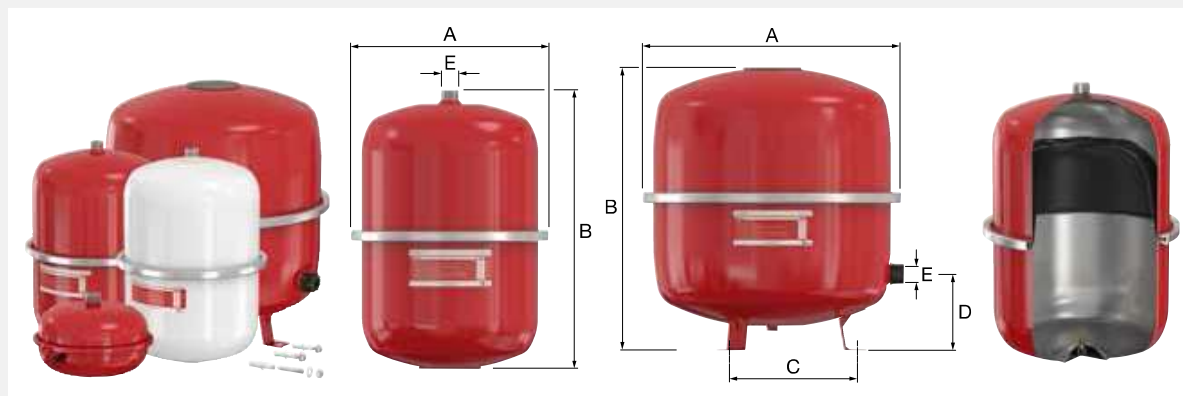
- The best expansion vessels thanks to our groundbreaking technology.
 - Extremely low permeability of the diaphragm ensures that pre-charge pressure is maintained for a long time.
 - The flexible diaphragms with rolling action are preformed and, in contrast to a bag type bladder, prevent stretching so that their properties are preserved over the long term.
 - The unique clench ring construction clamps the diaphragm between the two vessel halves. This not only ensures a perfect seal but also prevents mechanical damage of the diaphragm during use (load distribution over the entire clamping area and not at 1 suspension point).
 - The gas side is filled with nitrogen, and not with air, so that corrosion is prevented and the pressure loss is even more limited.
 - The ribbed profile on the diaphragm prevents it from sticking to the inside wall of the vessel and ensures inflow of expansion water at the slightest increase in pressure.
 - Uncoated water connection thread ensures easy and water tight installation.
 - Top quality steel and diaphragms.
 - Finished with a gleaming epoxy-powder coating.
 - Each vessel is factory tested.
- Expansion vessels 8 - 80 litres:
 - The two halves of the vessel are coated prior to assembly, not afterwards. Therefore there is no risk of corrosion on the clamp ring.
 - The nitrogen air valve is countersunk on the vessel to protect it from damage, it is in turn further protected by a plastic cover plate.



Flexcon 2 - 80

- Deep drawn steel vessel halves with zinc plated steel clench ring.
- Maximum working pressure: 3.0 or 6.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating (18 litre also available in white).
- Flexcon 35 - 80: With feet and including mounting kit.

Not available on stock in the U.K.



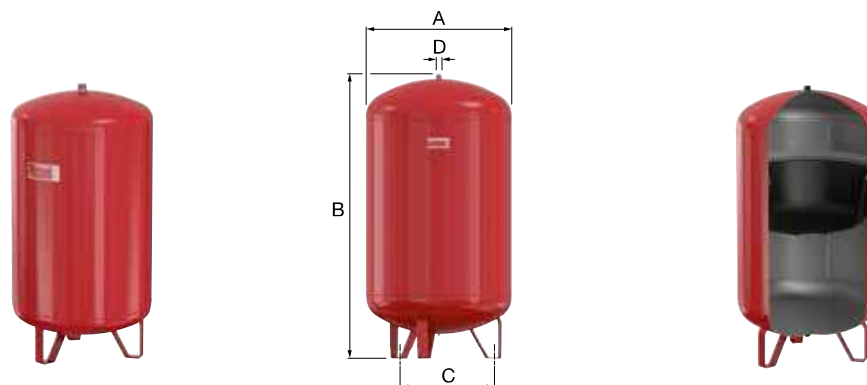
Type	Capacity [l]	Pre-charge [bar]	Max. working pressure [bar]	A [mm]	Dimensions B [mm]	Ø C [mm]	D [mm]	Syst. conn. (E)	Weight [kg]		Order Code
Flexcon 2	2	0.5	3.0	216	144	-	-	G 3/4" M	1.5	120	13221
Flexcon 2	2	1.0	3.0	216	144	-	-	G 3/4" M	1.5	120	13223
Flexcon 4	4	0.5	3.0	216	192	-	-	G 3/4" M	1.8	90	13421
Flexcon 4	4	1.0	3.0	216	192	-	-	G 3/4" M	1.8	90	13423
Flexcon 8	8	0.5	3.0	245	277	-	-	R 3/4"	2.2	77	26085
Flexcon 12	12	0.5	3.0	286	309	-	-	R 3/4"	2.7	60	26125
Flexcon 12	12	1.0	3.0	286	309	-	-	R 3/4"	2.7	60	26126
Flexcon 18	18	0.5	3.0	286	405	-	-	R 3/4"	3.7	48	26185
Flexcon 18 white	18	0.5	3.0	286	405	-	-	R 3/4"	3.7	48	26181
Flexcon 18	18	1.0	3.0	286	405	-	-	R 3/4"	3.7	48	26186
Flexcon 18 white	18	1.0	3.0	286	405	-	-	R 3/4"	3.7	48	26182
Flexcon 18	18	1.5	3.0	286	405	-	-	R 3/4"	3.7	48	26188
Flexcon 25	25	0.5	3.0	328	421	-	-	R 3/4"	4.5	25	26255
Flexcon 25	25	1.0	3.0	328	421	-	-	R 3/4"	4.5	25	26256
Flexcon 25	25	1.5	3.0	328	421	-	-	R 3/4"	4.5	25	26258
Flexcon 35	35	0.5	3.0	396	435	263	118	R 3/4"	5.6	24	26355
Flexcon 35	35	1.0	3.0	396	435	263	118	R 3/4"	5.6	24	26356
Flexcon 35	35	1.5	3.0	396	435	263	118	R 3/4"	5.6	24	26357
Flexcon 50	50	0.5	6.0	437	493	263	134	R 3/4"	11.4	12	26505
Flexcon 50	50	1.0	6.0	437	493	263	134	R 3/4"	11.4	12	26506
Flexcon 50	50	1.5	6.0	437	493	263	134	R 3/4"	11.4	12	26507
Flexcon 80	80	0.5	6.0	519	534	360	140	R 1"	15.0	12	26805
Flexcon 80	80	1.0	6.0	519	534	360	140	R 1"	15.0	12	26806
Flexcon 80	80	1.5	6.0	519	534	360	140	R 1"	15.0	12	26807
Flexcon 80	80	2.0	6.0	519	534	360	140	R 1"	15.2	12	26804



Flexcon 110 - 300

- All welded construction.
- Maximum working pressure: 6.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.
- Including mounting kit.

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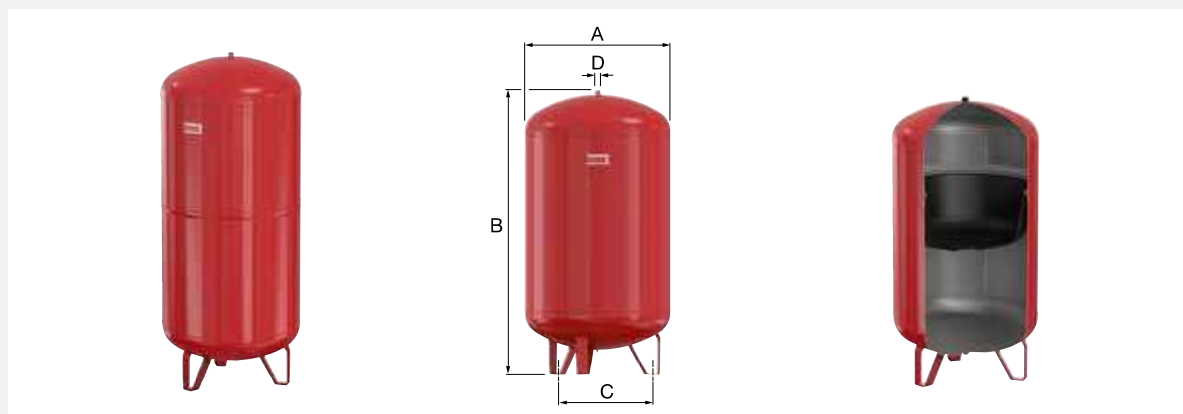
Type	Capacity [l]	Pre-charge [bar]	Dimensions			Syst. conn. (D)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]				
Flexcon 110	110	0.5	484	784	360	R 1"	19.1	8	16115
Flexcon 110	110	1.0	484	784	360	R 1"	19.1	8	16116
Flexcon 110	110	1.5	484	784	360	R 1"	19.1	8	16117
Flexcon 110	110	2.0	484	784	360	R 1"	19.1	8	16119
Flexcon 110	110	2.5	484	784	360	R 1"	19.1	8	16120
Flexcon 110	110	3.0	484	784	360	R 1"	19.1	8	16110
Flexcon 110	110	*	484	784	360	R 1"	19.1	8	16111
Flexcon 140	140	0.5	484	950	360	R 1"	20.1	8	16145
Flexcon 140	140	1.0	484	950	360	R 1"	20.1	8	16146
Flexcon 140	140	1.5	484	950	360	R 1"	20.1	8	16147
Flexcon 140	140	2.0	484	950	360	R 1"	20.1	8	16141
Flexcon 140	140	2.5	484	950	360	R 1"	20.1	8	16142
Flexcon 140	140	3.0	484	950	360	R 1"	20.1	8	16143
Flexcon 140	140	*	484	950	360	R 1"	20.1	8	16140
Flexcon 200	200	0.5	484	1300	450	R 1"	27.6	8	16205
Flexcon 200	200	1.0	484	1300	450	R 1"	27.6	8	16206
Flexcon 200	200	1.5	484	1300	450	R 1"	27.6	8	16207
Flexcon 200	200	2.0	484	1300	450	R 1"	27.6	8	16208
Flexcon 200	200	2.5	484	1300	450	R 1"	27.6	8	16209
Flexcon 200	200	3.0	484	1300	450	R 1"	27.6	8	16210
Flexcon 200	200	*	484	1300	450	R 1"	27.6	8	16200
Flexcon 300	300	0.5	600	1330	450	R 1"	44.1	6	16301
Flexcon 300	300	1.0	600	1330	450	R 1"	44.1	6	16302
Flexcon 300	300	1.5	600	1330	450	R 1"	44.1	6	16303
Flexcon 300	300	2.0	600	1330	450	R 1"	44.1	6	16304
Flexcon 300	300	2.5	600	1330	450	R 1"	44.1	6	16305
Flexcon 300	300	3.0	600	1330	450	R 1"	44.1	6	16306
Flexcon 300	300	*	600	1330	450	R 1"	44.1	6	16300

* Specify pre-charge pressure when ordering.



Flexcon 425 - 1000

- All welded construction.
- Maximum working pressure: 6.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.



Type	Capacity [l]	Pre-charge [bar]	Dimensions			Syst. conn. (D)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]				
Flexcon 425	425	0.5	790	1180	610	R 1"	57.4	1	16421
Flexcon 425	425	1.0	790	1180	610	R 1"	57.4	1	16422
Flexcon 425	425	1.5	790	1180	610	R 1"	57.4	1	16423
Flexcon 425	425	2.0	790	1180	610	R 1"	57.4	1	16424
Flexcon 425	425	2.5	790	1180	610	R 1"	57.4	1	16425
Flexcon 425	425	3.0	790	1180	610	R 1"	57.4	1	16426
Flexcon 425	425	*	790	1180	610	R 1"	57.4	1	16420
Flexcon 600	600	0.5	790	1540	610	R 1"	70.1	1	16601
Flexcon 600	600	1.0	790	1540	610	R 1"	70.1	1	16602
Flexcon 600	600	1.5	790	1540	610	R 1"	70.1	1	16603
Flexcon 600	600	2.0	790	1540	610	R 1"	70.1	1	16604
Flexcon 600	600	2.5	790	1540	610	R 1"	70.1	1	16605
Flexcon 600	600	3.0	790	1540	610	R 1"	70.1	1	16606
Flexcon 600	600	*	790	1540	610	R 1"	70.1	1	16600
Flexcon 800	800	0.5	790	1888	610	R 1"	88.0	1	16801
Flexcon 800	800	1.0	790	1888	610	R 1"	88.0	1	16802
Flexcon 800	800	1.5	790	1888	610	R 1"	88.0	1	16803
Flexcon 800	800	2.0	790	1888	610	R 1"	88.0	1	16804
Flexcon 800	800	2.5	790	1888	610	R 1"	88.0	1	16805
Flexcon 800	800	3.0	790	1888	610	R 1"	88.0	1	16806
Flexcon 800	800	*	790	1888	610	R 1"	88.0	1	16800
Flexcon 1000	1000	0.5	790	2268	610	R 1"	101.4	1	16901
Flexcon 1000	1000	1.0	790	2268	610	R 1"	101.4	1	16902
Flexcon 1000	1000	1.5	790	2268	610	R 1"	101.4	1	16903
Flexcon 1000	1000	2.0	790	2268	610	R 1"	101.4	1	16904
Flexcon 1000	1000	2.5	790	2268	610	R 1"	101.4	1	16905
Flexcon 1000	1000	3.0	790	2268	610	R 1"	101.4	1	16906
Flexcon 1000	1000	*	790	2268	610	R 1"	101.4	1	16900

* Specify pre-charge pressure when ordering.



Flexcon Top and Flexcon Solar: Now with butyl diaphragm

The well-known Flexcon Top and Flexcon Solar 2 - 1000 liter expansion vessels now have a high quality butyl rubber diaphragm. One major advantage of butyl is its very low gas permeability, which helps to maintain the vessels pre-charge longer.



FLEXCON SOLAR

FLEXCON TOP

The maximum permissible diaphragm temperature has been increased to 90 °C for Flexcon Top and 110 °C for Flexcon Solar.

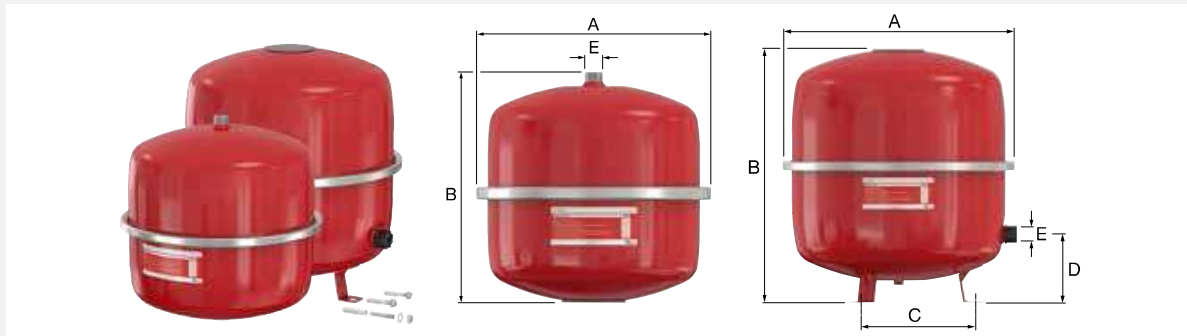
FLEXCON TOP

High pressure alternative for use in sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.

- Diaphragm: butyl rubber.

Flexcon Top 2 - 80

- Deep drawn steel vessel halves with zinc plated steel clench ring.
- Maximum working pressure: 6.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 90 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.
- Flexcon Top 35 - 80: With feet and including mounting kit.



Type	Capacity [l]	Pre-charge [bar]	Dimensions				Syst. conn. (E)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]	D [mm]				
Flexcon Top 2	2	0.5	216	144	-	-	R 3/4"	1.7	120	13202
Flexcon Top 2	2	2.5	216	144	-	-	R 3/4"	1.7	120	13203
Flexcon Top 2	2	*	216	144	-	-	R 3/4"	1.7	120	13204
Flexcon Top 4	4	0.5	216	192	-	-	R 3/4"	2.1	90	13404
Flexcon Top 4	4	2.5	216	192	-	-	R 3/4"	2.1	90	13405
Flexcon Top 4	4	*	216	192	-	-	R 3/4"	2.1	90	13406
Flexcon Top 8	8	0.5	245	277	-	-	R 3/4"	3.2	50	16008
Flexcon Top 8	8	2.5	245	277	-	-	R 3/4"	3.2	50	16010
Flexcon Top 8	8	*	245	277	-	-	R 3/4"	3.2	50	16011
Flexcon Top 12	12	0.5	286	309	-	-	R 3/4"	4.5	36	16012
Flexcon Top 12	12	2.5	286	309	-	-	R 3/4"	4.5	36	16014
Flexcon Top 12	12	*	286	309	-	-	R 3/4"	4.5	36	16015
Flexcon Top 18	18	0.5	328	323	-	-	R 3/4"	5.7	24	16018
Flexcon Top 18	18	2.5	328	323	-	-	R 3/4"	5.7	24	16020
Flexcon Top 18	18	*	328	323	-	-	R 3/4"	5.7	24	16017
Flexcon Top 25	25	0.5	358	356	-	-	R 3/4"	7.3	24	16025
Flexcon Top 25	25	1.0	358	356	-	-	R 3/4"	7.3	18	16026
Flexcon Top 25	25	1.5	358	356	-	-	R 3/4"	7.3	18	16029
Flexcon Top 25	25	2.5	358	356	-	-	R 3/4"	7.3	18	16027
Flexcon Top 25	25	*	358	356	-	-	R 3/4"	7.3	18	16030
Flexcon Top 35	35	0.5	396	435	263	118	R 3/4"	8.1	18	16035
Flexcon Top 35	35	1.5	396	435	263	118	R 3/4"	8.1	18	16039
Flexcon Top 35	35	2.5	396	435	263	118	R 3/4"	8.1	18	16037
Flexcon Top 35	35	*	396	435	263	118	R 3/4"	8.1	18	16038
Flexcon Top 50	50	0.5	437	493	263	134	R 3/4"	11.4	12	16051
Flexcon Top 50	50	1.5	437	493	263	134	R 3/4"	11.4	12	16050
Flexcon Top 50	50	2.5	437	493	263	134	R 3/4"	11.4	12	16053
Flexcon Top 50	50	*	437	493	263	134	R 3/4"	11.4	12	16054
Flexcon Top 80	80	0.5	519	534	360	140	R 1"	15.0	12	16081
Flexcon Top 80	80	2.5	519	534	360	140	R 1"	15.0	12	16083
Flexcon Top 80	80	*	519	534	360	140	R 1"	15.0	12	16084
Flexcon Top 80	80	1.5	519	534	360	140	R 1"	15.0	12	16085

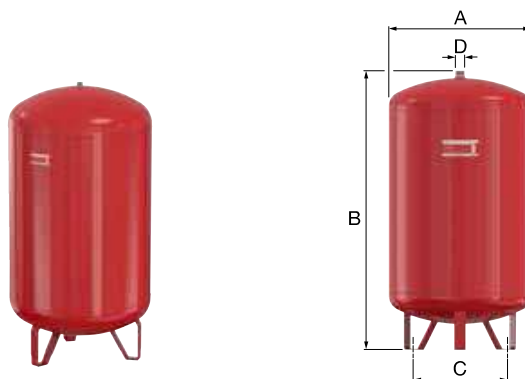
* Specify pre-charge pressure when ordering.



Flexcon Top 110 - 1000

- All welded construction.
- Maximum working pressure: 10.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 90 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.
- Flexcon Top 110 - 300: including mounting kit.

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Type	Capacity [l]	Pre-charge [bar]	Dimensions			Syst. conn. (D)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]				
Flexcon Top 110	110	1.5	484	784	360	R 1"	27.3	8	16103
Flexcon Top 110	110	3.0	484	784	360	R 1"	27.3	8	16106
Flexcon Top 110	110	3.5	484	784	360	R 1"	27.3	8	16090
Flexcon Top 110	110	*	484	784	360	R 1"	27.3	8	16100
Flexcon Top 140	140	1.5	484	950	360	R 1"	31.6	8	16133
Flexcon Top 140	140	3.0	484	950	360	R 1"	31.6	8	16136
Flexcon Top 140	140	3.5	484	950	360	R 1"	31.6	8	16091
Flexcon Top 140	140	*	484	950	360	R 1"	31.6	8	16130
Flexcon Top 200	200	1.5	600	960	450	R 1"	35.4	8	16193
Flexcon Top 200	200	3.0	600	960	450	R 1"	35.4	8	16196
Flexcon Top 200	200	3.5	600	960	450	R 1"	35.4	8	16092
Flexcon Top 200	200	*	600	960	450	R 1"	35.4	8	16190
Flexcon Top 300	300	1.5	600	1330	450	R 1"	57.1	6	16293
Flexcon Top 300	300	3.0	600	1330	450	R 1"	57.1	6	16296
Flexcon Top 300	300	3.5	600	1330	450	R 1"	57.1	6	16093
Flexcon Top 300	300	*	600	1330	450	R 1"	57.1	6	16290
Flexcon Top 425	425	1.5	790	1180	610	R 1"	84.9	1	16413
Flexcon Top 425	425	3.0	790	1180	610	R 1"	84.9	1	16416
Flexcon Top 425	425	3.5	790	1180	610	R 1"	84.9	1	16094
Flexcon Top 425	425	*	790	1180	610	R 1"	84.9	1	16410
Flexcon Top 600	600	1.5	790	1540	610	R 1"	105.8	1	16593
Flexcon Top 600	600	3.0	790	1540	610	R 1"	105.8	1	16596
Flexcon Top 600	600	3.5	790	1540	610	R 1"	105.8	1	16096
Flexcon Top 600	600	*	790	1540	610	R 1"	105.8	1	16590
Flexcon Top 800	800	1.5	790	1888	610	R 1"	133.7	1	16793
Flexcon Top 800	800	3.0	790	1888	610	R 1"	133.7	1	16796
Flexcon Top 800	800	3.5	790	1888	610	R 1"	133.7	1	16098
Flexcon Top 800	800	*	790	1888	610	R 1"	133.7	1	16790
Flexcon Top 1000	1000	1.5	790	2268	610	R 1"	155.1	1	16893
Flexcon Top 1000	1000	3.0	790	2268	610	R 1"	155.1	1	16896
Flexcon Top 1000	1000	3.5	790	2268	610	R 1"	155.1	1	16099
Flexcon Top 1000	1000	*	790	2268	610	R 1"	155.1	1	17294

* Specify pre-charge pressure when ordering.



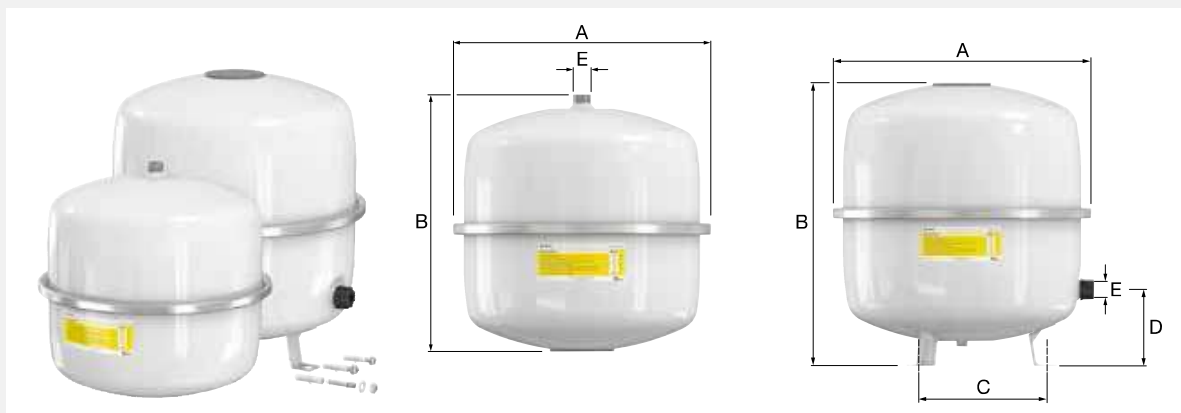
FLEXCON SOLAR

Expansion vessels specially designed for solar powered installations (acc. to EN12828).

- Diaphragm: butyl rubber.

Flexcon Solar 8 - 80

- Deep drawn steel vessel halves with zinc plated steel clench ring.
- Maximum working pressure: 8.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 110 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- White (RAL 9010) epoxy powder coating.
- Flexcon Solar 35 - 80: With feet and including mounting kit.



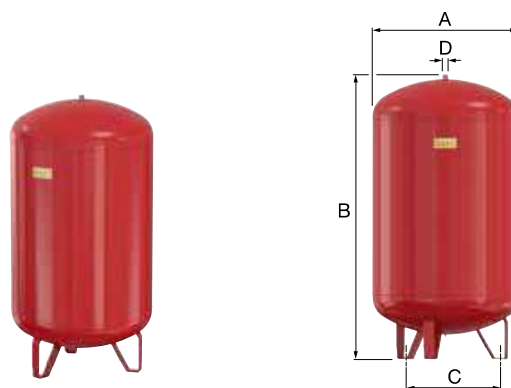
Type	Capacity [l]	Pre-charge [bar]	Dimensions				Syst. conn. (E)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]	D [mm]				
Flexcon Solar 8	8	2.5	245	277	-	-	R 3/4"	3.2	50	16060
Flexcon Solar 12	12	2.5	286	309	-	-	R 3/4"	4.5	36	16061
Flexcon Solar 18	18	2.5	328	323	-	-	R 3/4"	5.7	24	16062
Flexcon Solar 25	25	2.5	358	356	-	-	R 3/4"	7.3	18	16063
Flexcon Solar 35	35	2.5	396	435	263	118	R 3/4"	8.1	18	16064
Flexcon Solar 50	50	2.5	437	493	263	134	R 3/4"	11.4	12	16065
Flexcon Solar 80	80	2.5	519	534	360	140	R 1"	15.0	12	16066



Flexcon Solar 110 - 1000

- All welded construction.
- Maximum working pressure: 10.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 110 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.
- Flexcon Solar 110 - 300: including mounting kit.

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Type	Capacity [l]	Pre-charge [bar]	Dimensions			Syst. conn. (D)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]				
Flexcon Solar 110	110	3.0	484	784	360	R 1"	27.3	8	16067
Flexcon Solar 140	140	3.0	484	950	360	R 1"	31.6	8	16068
Flexcon Solar 200	200	3.0	600	960	450	R 1"	35.4	8	16069
Flexcon Solar 300	300	3.0	600	1330	450	R 1"	57.1	6	16070
Flexcon Solar 425	425	3.0	790	1180	610	R 1"	84.9	1	16071
Flexcon Solar 600	600	3.0	790	1540	610	R 1"	105.8	1	16072
Flexcon Solar 800	800	3.0	790	1888	610	R 1"	133.7	1	16073
Flexcon Solar 1000	1000	3.0	790	2268	610	R 1"	155.1	1	16074

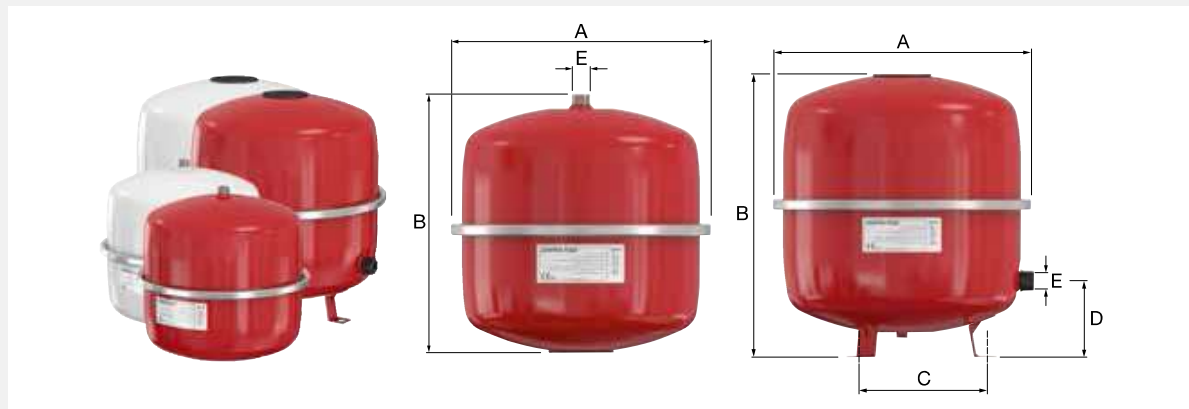


CONTRA-FLEX

For sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.

Contra-Flex 2 - 80

- Deep drawn steel vessel halves with zinc plated steel clench ring.
- Maximum working pressure: 3.0 or 6.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) or white (RAL 9010) epoxy powder coating. **(Contra-Flex white: Not available on stock in the U.K.)**
- Contra-Flex 35 - 80: With feet.

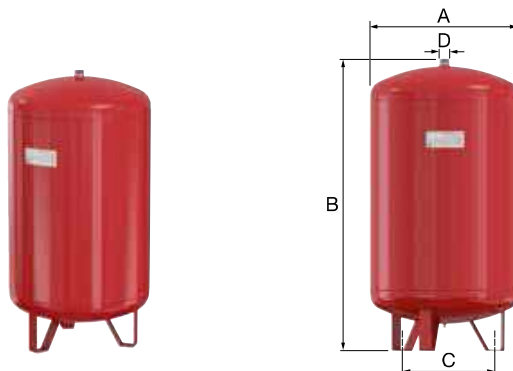


Type	Capacity [l]	Pre-charge [bar]	Max. working pressure [bar]	A [mm]	B [mm]	Ø C [mm]	D [mm]	Syst. conn. (E)	Weight [kg]		Order Code
Contra-Flex 2	2	0.5	3.0	216	144	-	-	G 3/4" M	1.5	120	13211
Contra-Flex 2	2	1.5	3.0	216	144	-	-	G 3/4" M	1.5	120	13213
Contra-Flex 4	4	0.5	3.0	216	192	-	-	G 3/4" M	1.8	90	13411
Contra-Flex 4	4	1.5	3.0	216	192	-	-	G 3/4" M	1.8	90	13413
Contra-Flex 8	8	0.5	3.0	245	277	-	-	R 3/4"	2.2	50	26074
Contra-Flex 8	8	1.5	3.0	245	277	-	-	R 3/4"	2.2	50	26073
Contra-Flex 8 white	8	1.5	3.0	245	277	-	-	R 3/4"	2.2	50	26063
Contra-Flex 12	12	0.5	3.0	286	309	-	-	R 3/4"	2.7	36	26136
Contra-Flex 12	12	1.5	3.0	286	309	-	-	R 3/4"	2.7	36	26133
Contra-Flex 12 white	12	1.5	3.0	286	309	-	-	R 3/4"	2.7	36	26153
Contra-Flex 18	18	0.5	3.0	328	323	-	-	R 3/4"	3.7	24	26171
Contra-Flex 18	18	1.0	3.0	328	323	-	-	R 3/4"	3.7	24	26172
Contra-Flex 18	18	1.5	3.0	328	323	-	-	R 3/4"	3.7	24	26173
Contra-Flex 18 white	18	1.0	3.0	328	323	-	-	R 3/4"	3.7	24	26162
Contra-Flex 18 white	18	1.5	3.0	328	323	-	-	R 3/4"	3.7	24	26163
Contra-Flex 25	25	0.5	3.0	358	356	-	-	R 3/4"	4.5	18	26241
Contra-Flex 25	25	1.5	3.0	358	356	-	-	R 3/4"	4.5	18	26243
Contra-Flex 25 white	25	1.5	3.0	358	356	-	-	R 3/4"	4.5	18	26233
Contra-Flex 35	35	0.5	3.0	396	435	263	118	R 3/4"	5.6	18	26341
Contra-Flex 35	35	1.5	3.0	396	435	263	118	R 3/4"	5.6	18	26343
Contra-Flex 35 white	35	1.5	3.0	396	435	263	118	R 3/4"	5.6	18	26333
Contra-Flex 50	50	0.5	6.0	437	493	263	134	R 3/4"	11.4	12	26491
Contra-Flex 50	50	1.5	6.0	437	493	263	134	R 3/4"	11.4	12	26493
Contra-Flex 50 white	50	1.5	6.0	437	493	263	134	R 3/4"	11.4	12	26483
Contra-Flex 80	80	0.5	6.0	519	534	360	140	R 1"	15.0	12	26791
Contra-Flex 80	80	1.5	6.0	519	534	360	140	R 1"	15.0	12	26793
Contra-Flex 80 white	80	1.5	6.0	519	534	360	140	R 1"	15.0	12	26783

Contra-Flex 100 - 1000

- All welded construction.
- Maximum working pressure: 6.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.

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Type	Capacity [l]	Pre-charge [bar]	Dimensions			Syst. conn. (D)	Weight [kg]		Order Code
			A [mm]	B [mm]	Ø C [mm]				
Contra-Flex 100	100	1.5	484	774	360	R 1"	19.0	8	26103
Contra-Flex 100	100	2.5	484	774	360	R 1"	19.0	8	26105
Contra-Flex 100	100	3.0	484	774	360	R 1"	19.0	8	17114
Contra-Flex 150	150	1.5	484	1014	360	R 1"	23.6	8	16153
Contra-Flex 150	150	2.5	484	1014	360	R 1"	23.6	8	26155
Contra-Flex 150	150	3.0	484	1014	360	R 1"	23.6	8	17119
Contra-Flex 200	200	1.5	484	1290	360	R 1"	27.5	8	26213
Contra-Flex 200	200	2.5	484	1290	360	R 1"	27.5	8	26215
Contra-Flex 200	200	3.0	484	1290	360	R 1"	27.5	8	17124
Contra-Flex 250	250	1.5	600	1138	450	R 1"	39.9	6	16253
Contra-Flex 250	250	2.5	600	1138	450	R 1"	39.9	6	26225
Contra-Flex 300	300	1.5	600	1315	450	R 1"	43.9	6	26303
Contra-Flex 300	300	2.5	600	1315	450	R 1"	43.9	6	26305
Contra-Flex 300	300	3.0	600	1315	450	R 1"	43.9	6	17134
Contra-Flex 400	400	1.5	790	1160	610	R 1"	57.1	1	26413
Contra-Flex 400	400	2.5	790	1160	610	R 1"	57.1	1	26415
Contra-Flex 400	400	3.0	790	1160	610	R 1"	57.1	1	17144
Contra-Flex 500	500	1.5	790	1310	610	R 1"	62.9	1	26523
Contra-Flex 500	500	2.5	790	1310	610	R 1"	62.9	1	26525
Contra-Flex 600	600	1.5	790	1518	610	R 1"	69.7	1	17162
Contra-Flex 600	600	2.5	790	1518	610	R 1"	69.7	1	26625
Contra-Flex 600	600	3.0	790	1518	610	R 1"	69.7	1	17164
Contra-Flex 800	800	1.5	790	1868	610	R 1"	87.5	1	17181
Contra-Flex 800	800	2.5	790	1868	610	R 1"	87.5	1	26825
Contra-Flex 800	800	3.0	790	1868	610	R 1"	87.5	1	17184
Contra-Flex 1000	1000	1.5	790	2248	610	R 1"	100.9	1	17190
Contra-Flex 1000	1000	2.5	790	2248	610	R 1"	100.9	1	26925
Contra-Flex 1000	1000	3.0	790	2248	610	R 1"	100.9	1	17194



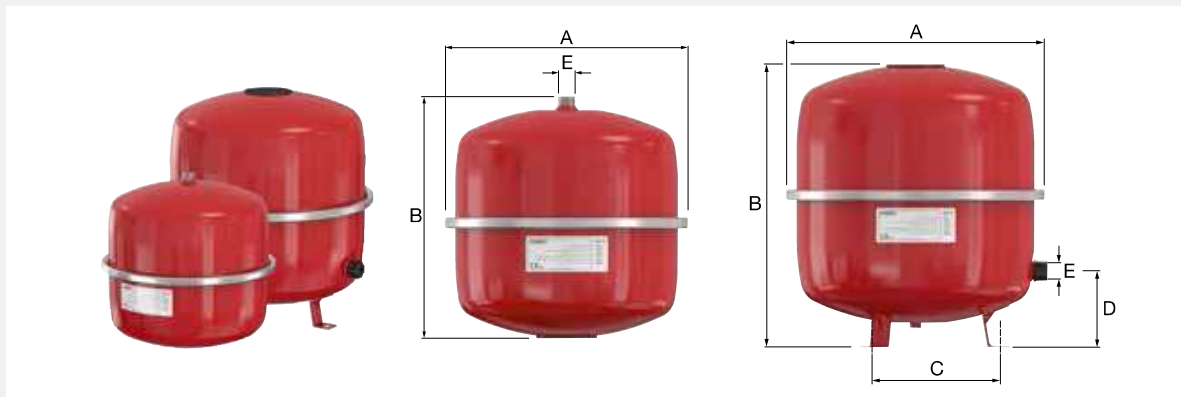
CUBEX

For sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.

- Deep drawn steel vessel halves with zinc plated steel clench ring.

Cubex 8 - 80

- Maximum working pressure: 3.0 or 6.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.
- Cubex 35 - 80: With feet.



Type	Capacity [l]	Pre-charge [bar]	Max. working pressure [bar]	Dimensions				Syst. conn. (E)	Weight [kg]		Order Code
				A [mm]	B [mm]	Ø C [mm]	D [mm]				
Cubex 8	8	0.5	3.0	245	277	-	-	R 3/4"	2.2	60	26075
Cubex 12	12	0.5	3.0	286	309	-	-	R 3/4"	2.7	30	26135
Cubex 18	18	0.5	3.0	328	323	-	-	R 3/4"	3.7	30	26175
Cubex 18	18	1.0	3.0	328	323	-	-	R 3/4"	3.7	30	26176
Cubex 25	25	0.5	3.0	358	356	-	-	R 3/4"	4.5	24	26245
Cubex 25	25	1.0	3.0	358	356	-	-	R 3/4"	4.5	24	26246
Cubex 35	35	0.5	3.0	396	435	263	118	R 3/4"	5.4	24	26345
Cubex 35	35	1.0	3.0	396	435	263	118	R 3/4"	5.4	24	26346
Cubex 50	50	1.0	6.0	437	493	263	134	R 3/4"	11.4	12	26515
Cubex 50	50	1.5	6.0	437	493	263	134	R 3/4"	11.4	12	26516
Cubex 80	80	1.0	6.0	519	534	360	140	R 1"	15.0	12	26815
Cubex 80	80	1.5	6.0	519	534	360	140	R 1"	15.0	12	26816



FLEXCON P

Oval shaped expansion vessels with reduced height and suspension eye. For use in sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.

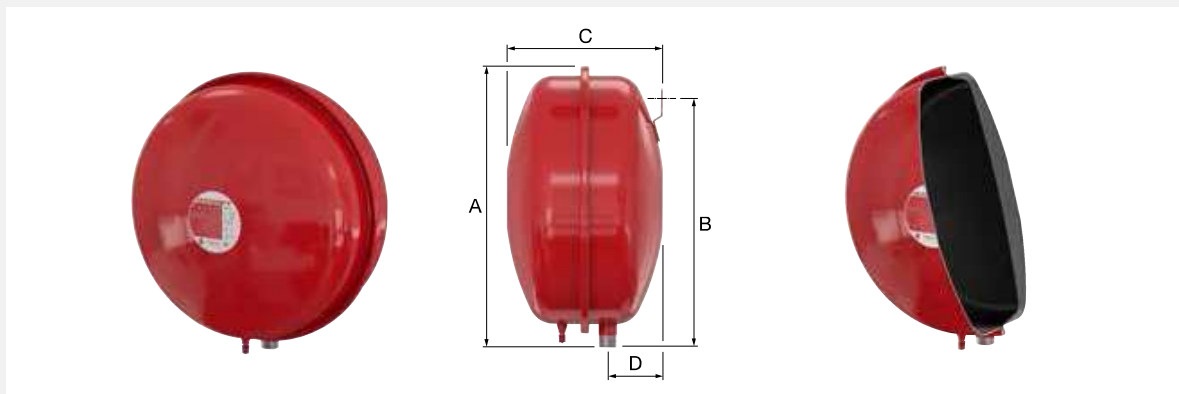
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- Space-saving alternative for small installations.
- The oval shape combined with the practical suspension eye enables quick and easy mounting, optimising the use of space.
- Thanks to the design no stagnant water remains in the vessel.
- Diaphragm: butyl rubber.
- Deep drawn steel vessel halves with zinc plated steel clench ring (with red epoxy powder coating).

Not available on stock in the U.K.

Flexcon P 18 - 50

- Maximum working pressure: 3.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 90 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.



Type	Capacity [l]	Pre-charge [bar]	Dimensions				Syst. conn.	Weight [kg]		Order Code
			A [mm]	B [mm]	C [mm]	D [mm]				
Flexcon P 18	18	1.0	387	365	226	80	G 3/4" M	5.7	30	13316
Flexcon P 25	25	1.0	435	415	256	90	G 3/4" M	7.7	20	13326
Flexcon P 35	35	1.0	435	450	333	110	G 3/4" M	8.9	20	13336
Flexcon P 50	50	1.5	515	505	344	125	G 3/4" M	11.8	12	13357



CUBEX R

Flat expansion vessels for use in sealed heating installations (acc. to EN12828) and chilled water (cooling) installations.

Cubex R 12 - 18

- Maximum working pressure: 3.0 bar.
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels in accordance with EN13831.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Maximum temperature diaphragm: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.



Type	Capacity [l]	Pre-charge [bar]	Dimensions		Syst. conn.	Weight [kg]		Order Code
			Ø [mm]	H. [mm]				
Cubex R 12	12	0.5	387	133	G 3/4" M	5.1	48	13212
Cubex R 14	14	0.5	387	153	G 3/4" M	5.3	48	13214
Cubex R 18	18	0.5	387	183	G 3/4" M	6.4	48	13218



FLEXCON M

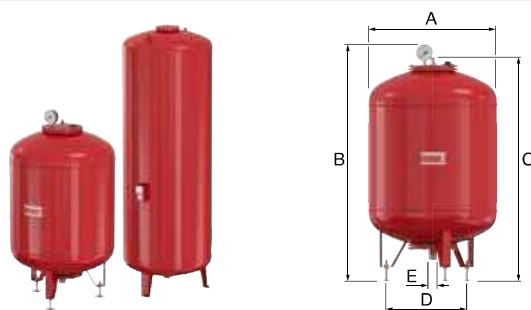
Expansion vessels with a replaceable bladder for use in sealed heating installations (acc. to EN12828) and chilled water (cooling) installations. Particular benefits of use are achieved in installations with large variations between static pressure and pre-set pressure of the safety valve.

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- Replaceable butyl bladder.
- Delivered with pressure gauge, inspection cover and height adjustable feet (except 1200 - 2000 litres).
- The Flexcon M 1200 - 8000 can be fitted with a Flexvent Super.

Flexcon M

- Maximum working pressure: 6.0 or 10.0 bar (other working pressures available on request).
- Standard pre-charge: 3.0, 4.0 or 6.0 bar (other pre-charge pressures available on request).
- Suitable for addition of glycol-based anti-freeze up to 50%.
- Vessels 100 - 1000 litres: in accordance with EN13831 / 1200 - 8000 litres: in accordance with AD2000.
- Suitable for systems with a flow temperature of 120 °C.
- Maximum temperature bladder: 70 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.
- Red (RAL 3002) epoxy powder coating.



Type	Capacity [l]	Pre-charge [bar]	Max. working pressure [bar]	Dimensions				Syst. conn. (E)	Weight [kg]		Order Code
				A [mm]	B [mm]	C [mm]	Ø D [mm]				
Flexcon M 100	100	3.0	6.0	484	958	928	360	G 1 1/4" M	23	1	22000
Flexcon M 100	100	6.0	10.0	484	958	928	360	G 1 1/4" M	33	1	22010
Flexcon M 200	200	3.0	6.0	484	1500	1470	360	G 1 1/4" M	30	1	22001
Flexcon M 200	200	6.0	10.0	600	1132	1106	360	G 1 1/4" M	46	1	22011
Flexcon M 300	300	3.0	6.0	600	1505	1475	450	G 1 1/4" M	41	1	22002
Flexcon M 300	300	6.0	10.0	600	1505	1475	450	G 1 1/4" M	60	1	22012
Flexcon M 400	400	3.0	6.0	790	1348	1318	610	G 1 1/4" M	55	1	22003
Flexcon M 400	400	6.0	10.0	790	1348	1318	610	G 1 1/4" M	84	1	22013
Flexcon M 500	500	3.0	6.0	790	1498	1468	610	G 1 1/4" M	61	1	22004
Flexcon M 600	600	3.0	6.0	790	1708	1678	610	G 1 1/4" M	68	1	22005
Flexcon M 600	600	6.0	10.0	790	1708	1678	610	G 1 1/4" M	106	1	22014
Flexcon M 800	800	3.0	6.0	790	2055	2025	610	G 1 1/4" M	93	1	22006
Flexcon M 800	800	6.0	10.0	790	2055	2025	610	G 1 1/4" M	145	1	22015
Flexcon M 1000	1000	3.0	6.0	790	2404	2374	610	G 1 1/4" M	105	1	22007
Flexcon M 1000	1000	6.0	10.0	790	2404	2374	610	G 1 1/4" M	167	1	22016
Flexcon M 1200	1200	4.0	6.0	1000	-	1940	850	Rp 1 1/2" *	285	1	22108
Flexcon M 1200	1200	6.0	10.0	1000	-	1940	850	Rp 1 1/2" *	410	1	22148
Flexcon M 1600	1600	4.0	6.0	1000	-	2440	850	Rp 1 1/2" *	340	1	22109
Flexcon M 1600	1600	6.0	10.0	1000	-	2440	850	Rp 1 1/2" *	485	1	22149
Flexcon M 2000	2000	4.0	6.0	1200	-	2180	1050	Rp 2" *	425	1	22110
Flexcon M 2000	2000	6.0	10.0	1200	-	2180	1050	Rp 2" *	600	1	22150
Flexcon M 2800	2800	4.0	6.0	1200	-	2780	1050	Rp 2 1/2" *	510	1	22118
Flexcon M 2800	2800	6.0	10.0	1200	-	2780	1050	Rp 2 1/2" *	725	1	22158
Flexcon M 3500	3500	4.0	6.0	1200	-	3580	1050	Rp 2 1/2" *	620	1	22111
Flexcon M 3500	3500	6.0	10.0	1200	-	3580	1050	Rp 2 1/2" *	900	1	22151
Flexcon M 5200	5200	6.0	10.0	1500	-	3600	1142	Rp 2 1/2" *	1330	1	22152
Flexcon M 6700	6700	6.0	10.0	1500	-	4480	1142	DN 100 **	1690	1	22153
Flexcon M 8000	8000	6.0	10.0	1500	-	5090	1142	DN 100 **	2140	1	22154

* Adapter with flange connection PN 16 available (see Flexcon M-K).

** Flanges as per EN 1092-1 PN 16.



FLEXCON INTERMEDIATE VESSELS

Vessels to protect Flexcon expansion vessels on elevated temperature systems.

The vessels are fitted in between the expansion vessel and the system return.

System water flows from the installation into the top of the vessel. From the bottom of the vessel, significantly cooler water is fed into the expansion vessel.

- Suitable for addition of glycol-based anti-freeze up to 50%.
- Red (RAL 3002) epoxy powder coating.

Flexcon VSV - 6.0 bar



- Maximum working pressure: 6.0 bar.
- Maximum working temperature: 110 °C.
- This vessel is manufactured in accordance with sound engineering practice and satisfies the essential design requirements of the member state.

Type	Capacity [l]	Dimensions		Connection to		Weight [kg]		Order Code
		Ø [mm]	H. [mm]	Vessel	System			
Flexcon VSV 100	100	484	794	Rp 1 1/2"	Rp 1 1/2"	26.5	1	23386
Flexcon VSV 200	200	484	1304	Rp 1 1/2"	Rp 1 1/2"	28.8	1	23380
Flexcon VSV 350	350	484	2124	Rp 1 1/2"	Rp 1 1/2"	55.0	1	23381
Flexcon VSV 500	500	600	2025	Rp 2"	Rp 2"	64.0	1	23382
Flexcon VSV 750	750	790	1904	Rp 2"	Rp 2"	96.0	1	23383
Flexcon VSV 1000	1000	790	2255	Rp 2"	Rp 2"	114.0	1	23384

Flexcon VSV - 10.0 bar



- Maximum working pressure: 10.0 bar.
- Maximum working temperature: 110 °C.
- This vessel is manufactured in accordance with sound engineering practice and satisfies the essential design requirements of the member state.

Type	Capacity [l]	Dimensions		Connection to		Weight [kg]		Order Code
		Ø [mm]	H. [mm]	Vessel	System			
Flexcon VSV 100	100	484	794	Rp 1 1/2"	Rp 1 1/2"	31	1	23306
Flexcon VSV 200	200	484	1304	Rp 1 1/2"	Rp 1 1/2"	51	1	23300
Flexcon VSV 350	350	484	2124	Rp 1 1/2"	Rp 1 1/2"	80	1	23301
Flexcon VSV 500	500	600	2025	Rp 2"	Rp 2"	96	1	23302
Flexcon VSV 750	750	790	1904	Rp 2"	Rp 2"	142	1	23303
Flexcon VSV 1000	1000	790	2255	Rp 2"	Rp 2"	172	1	23304

Flexcon V-B - 10.0 bar



- Maximum working pressure: 10.0 bar.
- Maximum working temperature (design): 160 °C.
- In accordance with Pressure Equipment Directive 2014/68/EU.

Type	Capacity [l]	Dimensions		Connection		Weight [kg]		Order Code
		Ø [mm]	H. [mm]	Vessel	System			
V-B 50	50	450	640	G 1 1/4" F	R 1 1/4"	62	1	22730
V-B 180	180	550	1235	G 1 1/4" F	R 1 1/4"	133	1	22731
V-B 300	300	550	1735	G 1 1/4" F	R 1 1/4"	182	1	22729
V-B 400	400	750	1470	G 1 1/4" F	R 1 1/4"	255	1	22732
V-B 600	600	750	1860	G 1 1/4" F	R 1 1/4"	293	1	22733
V-B 800	800	750	2250	G 1 1/4" F	R 1 1/4"	344	1	22734
V-B 1000	1000	750	2750	G 1 1/2" F	R 1 1/2"	409	1	22735
V-B 1200	1200	1000	2200	G 1 1/2" F	R 1 1/2"	520	1	22736
V-B 1600	1600	1000	2700	G 1 1/2" F	R 1 1/2"	605	1	22737
V-B 2000	2000	1200	2435	G 2" F	R 2"	675	1	22738

Expansion Automats and Pressurisation Equipment

2



For sealed systems with large volumes or static height traditional expansion vessels are not the most efficient solution in terms of operational pressure or physical footprint. Flamco Expansion Automats balance the system pressure using a highly efficient vessel design and control equipment.

We produce a comprehensive range of models that offer high-quality performance and versatility which may be further enhanced by the addition of numerous optional accessories. This makes the Flamco expansion automats suitable for use in a variety of situations.

As demands and preferences differ worldwide, Flamco has opted for an adaptable, modular range to suit every client's requirements.

Flexcon M-K/U - internal coating



P. 44

Flexcon M-K/U



P. 45

Flexcon M-K - internal coating



P. 46

Flexcon M-K Connecting Kit (pneumatic)



P. 47

Flange Connection



P. 47

Second Compressor Unit



P. 47

Flexcon M-K/C



P. 48

Single Pump Control



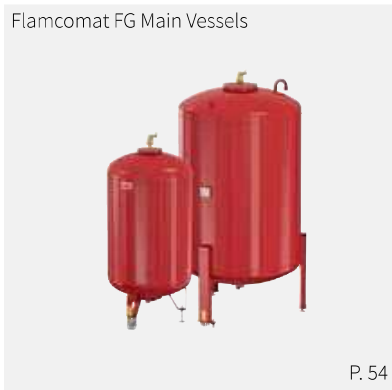
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Double Pump Control



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Flamcomat FG Main Vessels



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Flamcomat FB Auxiliary Vessels



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Flamcomat drain sets



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