



Flamco

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Diaphragm pressure expansion vessels



FLEXCON C 2 - 80



FLEXCON P



FLEXCON 110 - 1000



FLEXCON M



FLEXCON V-B



Flamco



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Choose quality – choose a Flexcon® expansion the choice of a satisfied customer

Flamco has long stood head and shoulders above other producers of diaphragm pressure expansion vessels. However, a good brand name alone is not enough for sustained success in a competitive market. That requires a lot more besides. For that reason, each Flexcon expansion vessel is the sum of a number of evident plus points in the choice of material, construction, production and distribution.

Flexcon expansion vessels surpass all European guidelines and thus bear the CE mark.



FLEXCON C 2 - 4



The two halves of the vessel are coated outside prior to assembly, not afterwards. That way they can't rust on the clamp construction!

Flexcon vessels are delivered in a stackable cardboard packaging with hand grip and each box contains clear assembly instructions.

The extremely limited permeability of the membranes ensures that pre-pressure is retained for a long time and guarantees a long life.



Flexcon vessels are always in stock at our wholesalers and our own warehouses.

Qualified Flamco employees will be happy to give you advice and support. They are just a telephone call away and can even come to you.

Flexcon quality is the result of fifty years of knowledge and experience!



A modern and largely computerised production line with numerous test and inspection points is your guarantee of consistent, high quality for all Flexcon vessels.

Tables with types and technical information: page 1.13 - 1.16.

vessel:



FLEXCON C 8 - 25



FLEXCON TOP 35 - 80



FLEXCON 110 - 1000



FLEXCON PRO



FLEXCON M



FLEXCON V-B

The Flexcon M's flange construction allows you to replace the butyl-rubber diaphragm.

As an option, the Flexcon M expansion vessel can be fitted with a Flexvent Super floatvent.

High efficiency means that the capacity of the vessel is used to best effect.

Each Flexcon M expansion vessel is fitted with a pressure gauge as standard.

Flamco's standard programme covers a wide range of expansion vessels from 2 - 8,000 litres with a sizable choice of pre-pressures and maximum operating pressures. All models are characterised by their slick construction, top-quality diaphragm, high-quality coating (on the vessel itself) and efficient production methods. Installing a Flexcon expansion vessel will reinforce your reputation as an expert!

**FLEXCON®
QUALITY IS
OUR TRADITION!**

A Flexcon M expansion vessel offers you extra-special advantages in installations with big differences in the static pressure and set pressure of the safety valve.

ON THE FLAMCO CD YOU WILL FIND:

- ◆ This brochure as PDF file.
- ◆ An animation film about the operation of the Flexcon vessel.
- ◆ The Flexcon calculation programme.
- ◆ Practical tips.
- ◆ Capacity tables.



Tables with types and technical information Flexcon M, V-B and VSV: page 1.17 - 1.18.



Flamco

Flexcon® is a byword for technical innovation vessels which you can rely on

Flexcon diaphragm expansion vessels are made of top-quality steel and come with a gleaming red epoxy coating – perfect protection and finish. The clamp is made of heavy-duty thermally-galvanised steel (sendzimir).



FLEXCON C 35 - 80



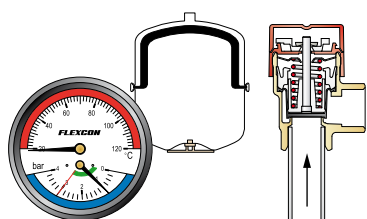
The thread of the water connection is not coated which means the vessel can be assembled easily.

The diaphragm is rolled on and off and is thus never stretched. This has a significant impact on its service life.

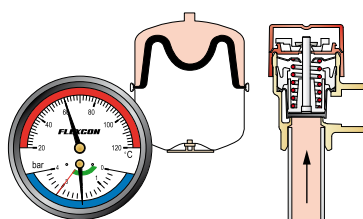
The nitrogen valve of Flexcon 8 - 80 litre vessels is sunk and cannot be damaged due to the cap and extra protective plate.

Flexcon 35 – 80 suitable for fitting to wall or floor. From Flexcon 35 upwards, the membrane and the water valve are protected during storage and transport by a special protection cap.

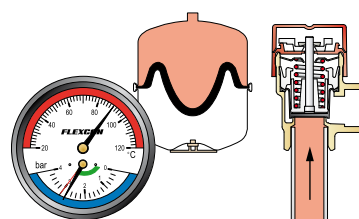
The unique clamp construction damages neither the diaphragm nor the two halves of the vessel.



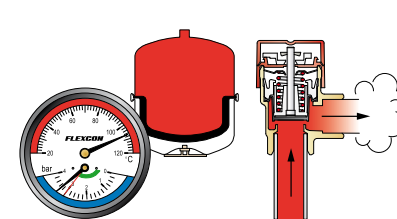
- ◆ When cold, the nitrogen cushion presses the diaphragm against the wall of the Flexcon vessel.



- ◆ When heated, the vessel partially fills with water and the nitrogen volume is compressed.



- ◆ When heated further, the vessel fully fills with water and the nitrogen volume is fully compressed.



- ◆ If the pressure rises too high, the Prescor valve opens. The excess water/steam is blown off.

in expansion



FLEXCON 110 - 1000



FLEXCON M

FLEXCON® ADVANTAGES:

- ◆ The best expansion vessels thanks to our ground-breaking technology.
- ◆ Excellent service before, during and after installation.
- ◆ Handy accessories for mounting or dismantling Flexcon vessels.
- ◆ Our diaphragms are suitable for use with anti-freeze. Exact details are available on request.

All Flexcon M vessels above 1200 litres are fitted with a vessel-filling exchangeable bladder. This bladder forms the separation between the expansion water inside the bladder and the nitrogen cushion. An extensive programme and the combination of quality, long life span and first class service makes every Flexcon a natural choice.

As an option, a Flexvent Super floatvent can be fitted to the top of the Flexcon M.

From 1200 litres all Flexcon M expansion vessels are fitted with an inspection port.

From 2800 litres all Flexcon M expansion vessels are fitted with an adjustable foot.

Flexcon M diaphragm expansion vessels must not be fixed to the ground or insulated. They must be set up so that they can be easily accessed at all times with a view to problem-free maintenance and inspection.





Flamco Flexcon® expansion vessels give you more

The standard Flexcon expansion vessels are suitable for use in central heating and cooling installations. That applies both to vessels with a fixed diaphragm and vessels with an exchangeable diaphragm. However, thanks to a range of special models there are even more interesting possibilities.

- ◆ Flexcon Top expansion vessels for pressures up to 6 bar.
- ◆ Flexcon Solar expansion vessels for use in Solar installations.
- ◆ Flexcon V-B intermediate vessels to prevent the diaphragm being exposed to excessively high temperatures.



FLEXCON TOP 8 - 25

Flexcon Top

Whereas the standard Flexcon expansion vessels (from 2 - 80 litres) have a maximum working pressure of 3 bars, the Flexcon Top range offers a range from 8 - 80 litres with a working pressure of 6 bars.



FLEXCON® TOP

25/2,5

Inhoud / Inhalt / Contenance / Capacity	25 L
Voordruk / Vordruck / Pression initiale / Gas charge	2,5 bar
Max. werkdruk / Zul. Betriebsüberdruck / Pression de service max. / Max. working pressure	6,0 bar
Max. aanvoertemperatuur / Zul. Vorlauftemperatur / Température de départ max. / Max. temperature at (heating) outlet	120 °C
Max. temperatuur membraan / Max. Betriebstemperatur Membrane / Température membrane max. / Max. temperature diaphragm	70 °C
Min. werkdruk / Min. Betriebstemperatur / Température de service min. / Min. working temperature	-10 °C
Max. voordruk / Max. Vordruck / Pression initiale max. / Max. gas charge	3,0 bar
CE 0343 BS4814:90	16027

On the label of this and all other Flexcon expansion vessels, you will find all the information you need.

Maximum working pressure of Flexcon Solar 8 - 80 litres: 8 bars.

Maximum working pressure of Flexcon Solar 110 -1000 litres: 10 bars.

Flexcon Solar

Een compleet programma Flexcon expansievaten van 8 - 1000 liter, voor toepassing in Solar installaties. Niet alleen geschikt voor water, maar natuurlijk ook voor de gebruikelijke Solarmedia.

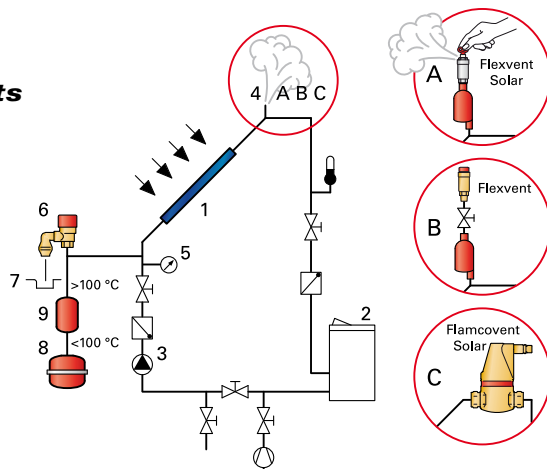


FLEXCON® SOLAR

25/2,5

Inhoud / Inhalt / Contenance / Capacity	25 L
Voordruk / Vordruck / Pression initiale / Gas charge	2,5 bar
Max. werkdruk / Zul. Betriebsüberdruck / Pression de service max. / Max. working pressure	8,0 bar
Max. aanvoertemperatuur / Zul. Vorlauftemperatur / Température de départ max. / Max. temperature at (heating) outlet	120 °C
Max. temperatuur membraan / Max. Betriebstemperatur Membrane / Température membrane max. / Max. temperature diaphragm	70 °C
Min. werkdruk / Min. Betriebstemperatur / Température de service min. / Min. working temperature	-10 °C
Max. voordruk / Max. Vordruck / Pression initiale max. / Max. gas charge	6,0 bar
CE 0343	16063

Flamco products used in a solar-powered installation



- Solar collector.
- Heat exchanger.
- Pump.
- Flamco vent valve and Flamco air pot.
- Pressure gauge.
- Flamco safety valve and funnel.
- Overflow vessel.
- Flexcon Solar expansion vessel.
- Flexcon V-B intermediate vessel (necessary if the temperature is too high in the Flexcon vessel).

possibilities

Flexcon P, the flat expansion vessel

Flat discus shape with practical suspension eye which makes fast and easy wall mounting possible. Thanks to the reliable construction with the well-known Flamco clamp construction, the size of the butyl membrane is approximately half the size of a full membrane in a comparable vessel. This means you profit from a limited permeability and a longer life of the membrane, and thus of the vessel itself. The sophisticated construction means that no residual water can remain in the vessel. The water connection is underneath. The Flexcon P, thanks to its limited dimensions, requires little space.

PRODUCT ADVANTAGES

- ◆ In 18, 25, 35 and 50 liter executions.
- ◆ Butyl membrane with lowest possible permeability.
- ◆ No residual water can remain in the vessel.
- ◆ Limited dimensions, requires little space.



FLEXCON PRO

Flexcon Pro

Membrane pressure expansion vessels with replaceable butyl membrane according to DIN 4807-3.

For use in closed central heating installations with a supply temperature up to 120 °C (maximum temperature at the membrane 70 °C) and closed cooling and air-conditioning installations.



FLEXCON 18



FLEXCON P 18

FLEXCON P 25

FLEXCON P 35

FLEXCON P 50

Flexcon white:

only the colour is different

In addition to the well-known 18-litre Flexcon vessel finished in the usual red colour, Flamco also supplies the same vessel in white. Ideal for locations in the home (bathroom or kitchen) or in the office. There is also a matching white Flexconsole. The white vessels and white console have the same colour as the housing of the boiler. It goes without saying that the quality is the same as that of the red Flexcon vessels!


Flamco
A Flexcon® expansion vessel is at the heart of a good installation

Across the world, Flexcon expansion vessels are installed in small, medium-sized and large installations every single day to the satisfaction of customers, installers and end-users. Flexcon expansion vessels are supplied ex works with the nitrogen pre-pressure specified by the customer.



Fitting the Prescor valve

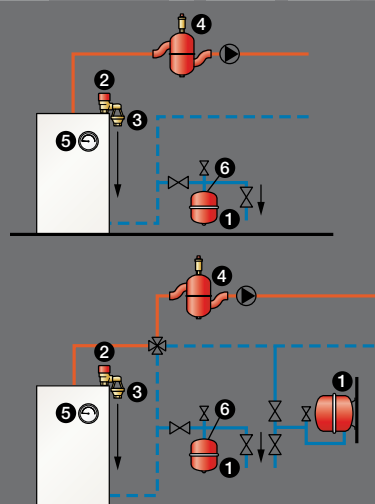
The Flexcon vessel, the Prescor safety valve and the Flexcon pressure gauge must always be set up as close to each other as possible to prevent pressure differences arising.

Don't forget the funnel...

The Flamco funnel keeps the connection with the ambient air open – an essential safety precaution.

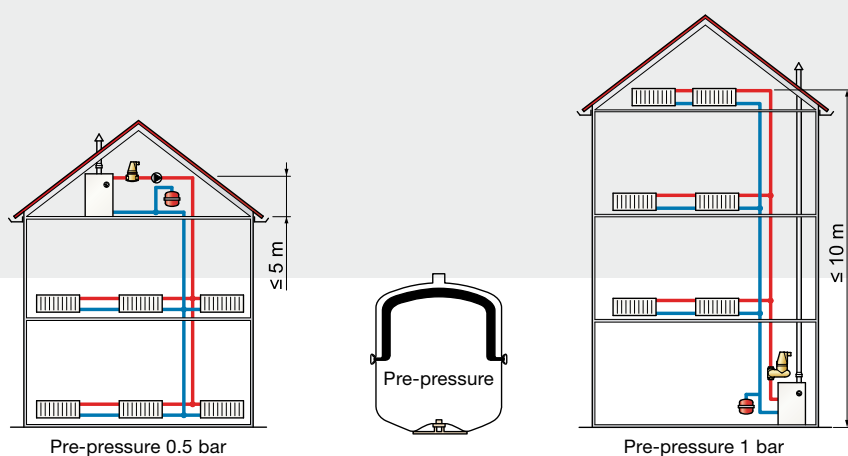
Installations with Flexcon expansion vessels

1. Flexcon vessel.
2. Prescor safety valve.
3. Flamco funnel.
4. Flamcovent or Flexair air separator.
5. Flexcon pressure gauge.
6. Flexfast isolating union.



FLEXCON C 8 - 25

FLEXCON 110 - 1000



The pre-pressure of the Flexcon expansion vessel

The pre-pressure is the unladen pressure at ambient temperature on the nitrogen filler valve. The pressure must match the static height, rounded up to a factor of 0.5 bar.



600 mm

There must be at least 600 mm clearance above the Flexcon M vessel to accommodate changing the diaphragm. We recommend fitting a valve/drain combination to the expansion pipe.



FLEXCON 110 - 1000

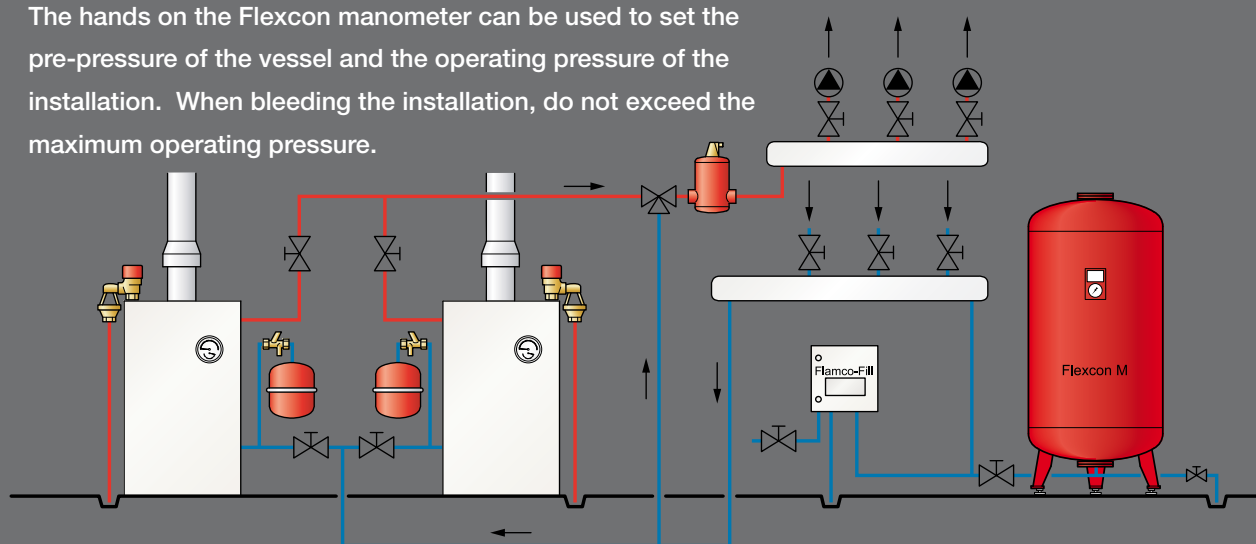


FLEXCON M

Commissioning

The pressure to which the installation is filled (cold) must be 0.3 bar higher at the vessel than the pre-pressure in the expansion vessel.

The hands on the Flexcon manometer can be used to set the pre-pressure of the vessel and the operating pressure of the installation. When bleeding the installation, do not exceed the maximum operating pressure.



Installations with more than one boiler

Per boiler:

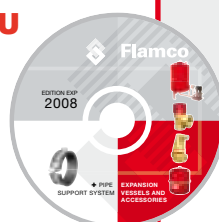
- 1 Flexcon vessel (depending on the boiler capacity).
- 1 Prescor safety valve or Prescomano.
- 1 Flamco funnel.
- 1 Flexcon 1/2" connector set.
- 1 Flexcon pressure gauge or pressure/thermometer combination.

On the suction side of the pump(s):
Flamco air separation equipment.

On the return accumulator:
1 or more Flexcon M vessels.
1 Flamco-Fill water suppletion unit.

ON THE FLAMCO CD YOU WILL FIND:

- ◆ Complete assembly instructions.
- ◆ Conformity certificates.
- ◆ DWF files.
- ◆ CAD symbols.





Flamco

Accessories for Flexcon® expansion vessels

Flamco provides accessories for:

- ◆ Attaching Flexcon vessels to the wall.
- ◆ Facilitating inspection of pre-pressure in fitted Flexcon vessels.
- ◆ Replacing the Flexcon vessel without having to drain the installation.

This page gives a brief overview of the handy accessories for Flexcon vessels. You can find a detailed description in Flamco's Accessories for central heating installations brochure.

Flamco makes it easy for you with practical accessories!



Flexconsole

For Flexcon vessels between 8 and 25 litres. In the Flexconsole system, the Flexcon vessel is set up vertically, suspended on the water connection, with the water nipple fitted to the $\frac{3}{4}$ " connection of the console, while the expansion pipe is fitted to the $\frac{1}{2}$ " connection. Code number 27910.



Flexconsole Plus

This has the same specification as the conventional Flexconsole, but is also equipped with a Flexcon pressure gauge with valve cover, a Flexvent floatvent with valve cover, a safety valve set to 3.0 bars and a Flexfast quick-release coupling. So that the wall mounting is always suitable and just right, the Flexconsoles are equipped with a wall plate with two slots. The red colour is the same as that of the Flexcon vessels. Code number 27996.

Flexfast isolating union

For Flexcon vessels from 2 - 25 litres. The Flexfast isolating union can be directly connected to the $\frac{3}{4}$ " water connection of the Flexcon vessel. The other side of the Flexfast isolating union is connected to the installation with a $\frac{3}{4}$ " male thread. You can now check the pre-pressure of the Flexcon vessel quickly and easy or replace it without bleeding or draining the installation. Code number 27920.



Connection set

A connection set consists of a swivel and a frog for connecting a Flexcon expansion vessel of 35 to 50 litres (connection set with $\frac{3}{4}$ " connection, code number 27941) or a Flexcon expansion vessel of 80 to 200 litres (connection set with 1" connection, code number 27942).



Test manometer

Using the Flamco test manometer, the pre-pressure of Flexcon and Airfix expansion vessels can be easily checked. The pressure range is from 0.4 to 6.8 bar. The code number is 27907.



Flexcon GVA 90

A handy extension piece with a 90° angle. The Flexcon GVA 90 must be screwed onto the valve of the medium-sized Flexcon vessels of 110-1000 litres. This extension piece makes the valve more easily accessible. Code number 27952.

MB 2 Mounting bracket

For Flexcon vessels from 2 - 25 litres. Comes with a slot in which the Flexcon vessel clamp fits precisely. Tightening the two bolts is all that is needed to make a sturdy connection. Code number 27913.



Flexcon $\frac{1}{2}$ " connection set

For Flexcon vessels from 35 up to 300 litres. The set consists of a shut-off valve, a fill/drain tap with hose socket and pressure gauge. Also available without pressure gauge. Code number 27290.



Flexcon 1" connection set

For Flexcon vessels from 110 - 1000 litres. The Flexcon 1" connection set consists of a shut-off valve, a fill/drain tap with hose column and pressure gauge. Code number 27293.



FlexControl

FlexControl provides the connection between the Flexcon expansion vessel on one side and the central heating installation on the other. Using the FlexControl, it is possible to control the pre-pressure in the expansion vessel, or to replace the expansion vessel, without having first to drain the installation or to release it from pressure. The maximum working pressure is 10 bar and the code number is 28920.



Flamco

Flexcon V-B intermediate vessels

In closed heating installations, the supply temperature can reach 120 °C. The continuous temperature load on the diaphragm is a maximum of 70 °C in line with the prevailing standard. In order to restrict the temperature to this level, it is necessary to put an intermediate vessel into the circuit. Flexcon V-B vessels have a maximum working pressure of 6 or 10 bars.



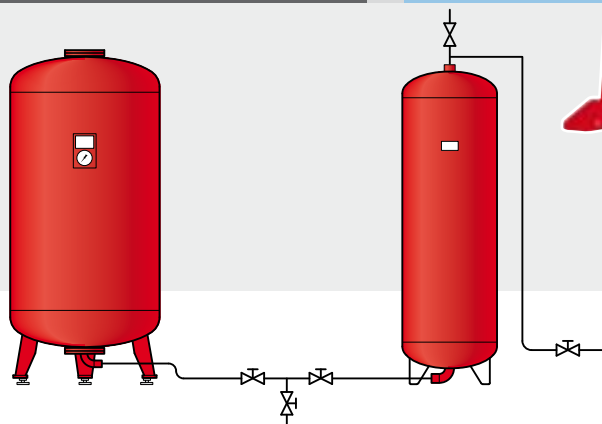
FLEXCON V-B

Excessively-hot water flows from the installation into the top of the intermediate vessel.

The hot water mixes in the vessel with the cold water already in the vessel.

From the bottom of the vessel, significantly cooler water is fed into the expansion vessel.

The maximum feed temperature of the water is 160 °C for Flexcon V-B. The rate at which the expansion water cools depends on the capacity of the intermediate vessel. The vessel must be set up in a way that guarantees problem-free working and maintenance. An intermediate vessel must not be insulated. Around the vessel and between the vessel and the ceiling there must be clearance of at least 400 mm.



Flexcon intermediate vessel connection diagram

The temperature of the expansion water that is supplied to the Flexcon expansion vessel remains under the maximum temperature permissible for the membrane.

By using a Flexcon intermediate vessel, you can prevent otherwise unnecessary damage of the vessel from excessive temperatures.



Standard Flexcon vessels for heating installations and also for cooled water installations down to a minimum temperature of – 10 °C and a max. ethylene glycol percentage of 50%.

- ◆ The Flexcon vessels below are suitable for a maximum operating pressure of 3 and 6 bars respectively.
- ◆ In the case of Flexcon vessels from 35 - 80 litres, a 12-mm soldered coupling and the equipment to fit it are supplied.
- ◆ The box in which the Flexcon and Flexcon Top vessels are supplied contains a drill jig to fit the feet easily and properly.
- ◆ The Flexcon Top vessels from 8 - 80 litres with a maximum operating pressure of 6 bars can be supplied with a different pre-pressure if required.
- ◆ To make a proper calculation for the Flexcon expansion vessel, please see the calculation programme on the CD.

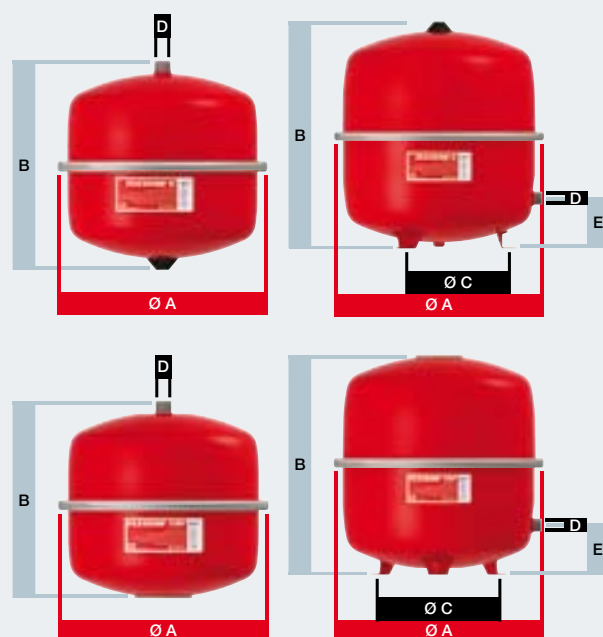


Versions and dimensions of Flexcon C 3-bar vessels

Type	Pre-pressure in bars	Dimensions in mm			Connec-tion (male) D	Weight in kg	Max. operating pressure in bars	Code number
		ØA	B	ØC				
Flexcon C 2	1.5	194	152	-	3/4"	1.1	3	16023
Flexcon C 4	1.5	194	257	-	3/4"	1.6	3	16043
Flexcon C 8	1.5	245	304	-	3/4"	2.2	3	16077
Flexcon C 12	1.5	286	336	-	3/4"	2.7	3	16127
Flexcon C 18	1.5	328	328	-	3/4"	3.7	3	16177
Flexcon C 25	1.5	358	380	-	3/4"	4.5	3	16247
Flexcon C 35	1.5	396	439	263	3/4" *	6.5	3	16347
Flexcon C 50	1.5	435	495	263	3/4" *	15.1	3	16493
Flexcon C 80	1.5	519	551	360	1" *	22.1	3	16817

Versions and dimensions of Flexcon Top 6-bar vessels

Type	Pre-pressure in bars	Dimensions in mm			Connec-tion (male) D	Weight in kg	Max. operating pressure in bars	Code number
		ØA	B	ØC				
Flexcon Top 2	1.5	194	152	-	3/4"	2.2	6	16003
Flexcon Top 4	1.5	194	257	-	3/4"	3.2	6	16005
Flexcon Top 8	1.5	245	280	-	3/4"	3.2	6	16010
Flexcon Top 12	1.5	286	313	-	3/4"	4.5	6	16014
Flexcon Top 18	1.5	328	306	-	3/4"	5.7	6	16020
Flexcon Top 25	1.5	358	359	-	3/4"	7.3	6	16027
Flexcon Top 35	1.5	396	416	263	3/4"	8.8	6	16037
Flexcon Top 50	1.5	435	473	263	3/4"	11.2	6	16053
Flexcon Top 80	1.5	519	540	360	1"	15	6	16083





Flamco

Flexcon® expansion vessels from 110 - 1000 litres

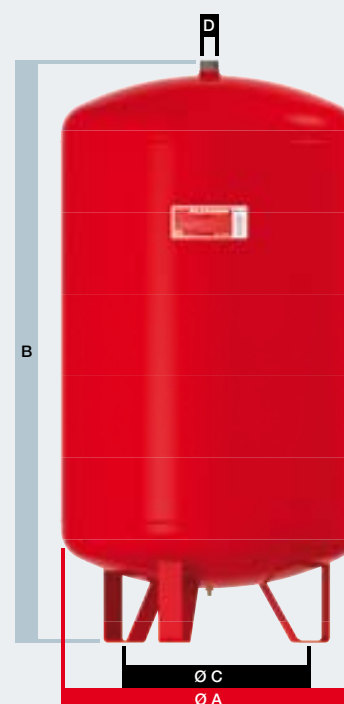
Standard Flexcon vessels for heating installations and also for cooled water installations down to a minimum temperature of – 10 °C and a max. ethylene glycol percentage of 50%.

- ◆ The Flexcon vessels shown below are suitable for a maximum operating pressure of up to 6 bars.
- ◆ In the case of Flexcon vessels from 110- 300 litres, a 12-mm soldered coupling and the equipment to fit it are supplied.
- ◆ To make a proper calculation for the Flexcon expansion vessel, please see the calculation programme on the CD.
- ◆ Different pre-pressures are available on request.



Versions and dimensions of Flexcon 6-bar vessels

Type	Pre-pressure in bars	Dimensions in mm			Connection (male) D	Weight in kg	Max. operating pressure in bars	Code number
		ØA	B	ØC				
Flexcon 110	0.5	484	784	360	1"	23.8	6	16115
Flexcon 110	1.0	484	784	360	1"	23.8	6	16116
Flexcon 110	1.5	484	784	360	1"	23.8	6	16117
Flexcon 110	on request	484	784	360	1"	23.8	6	16110
Flexcon 140	0.5	484	950	360	1"	25.3	6	16145
Flexcon 140	1.0	484	950	360	1"	25.3	6	16146
Flexcon 140	1.5	484	950	360	1"	25.3	6	16147
Flexcon 140	2.0	484	950	360	1"	25.3	6	16148
Flexcon 140	2.5	484	950	360	1"	25.3	6	16149
Flexcon 140	3.0	484	950	360	1"	25.3	6	16150
Flexcon 140	on request	484	950	360	1"	25.3	6	16140
Flexcon 200	0.5	484	1300	360	1"	38.1	6	16205
Flexcon 200	1.0	484	1300	360	1"	38.1	6	16206
Flexcon 200	1.5	484	1300	360	1"	38.1	6	16207
Flexcon 200	2.0	484	1300	360	1"	38.1	6	16208
Flexcon 200	2.5	484	1300	360	1"	38.1	6	16209
Flexcon 200	3.0	484	1300	360	1"	38.1	6	16210
Flexcon 200	on request	484	1300	360	1"	38.1	6	16200
Flexcon 300	0.5	600	1330	450	1"	56.9	6	16301
Flexcon 300	1.0	600	1330	450	1"	56.9	6	16302
Flexcon 300	1.5	600	1330	450	1"	56.9	6	16303
Flexcon 300	2.0	600	1330	450	1"	56.9	6	16304
Flexcon 300	2.5	600	1330	450	1"	56.9	6	16305
Flexcon 300	3.0	600	1330	450	1"	56.9	6	16306
Flexcon 300	on request	600	1330	450	1"	56.9	6	16300
Flexcon 425	0.5	790	1180	610	1"	76.4	6	16421
Flexcon 425	1.0	790	1180	610	1"	76.4	6	16422
Flexcon 425	1.5	790	1180	610	1"	76.4	6	16423
Flexcon 425	2.0	790	1180	610	1"	76.4	6	16424
Flexcon 425	2.5	790	1180	610	1"	76.4	6	16425
Flexcon 425	3.0	790	1180	610	1"	76.4	6	16426
Flexcon 425	on request	790	1180	610	1"	76.4	6	16400
Flexcon 600	0.5	790	1538	610	1"	92.9	6	16601
Flexcon 600	1.0	790	1538	610	1"	92.9	6	16602
Flexcon 600	1.5	790	1538	610	1"	92.9	6	16603
Flexcon 600	2.0	790	1538	610	1"	92.9	6	16604
Flexcon 600	2.5	790	1538	610	1"	92.9	6	16605
Flexcon 600	3.0	790	1538	610	1"	92.9	6	16606
Flexcon 600	on request	790	1538	610	1"	92.9	6	16600
Flexcon 800	0.5	790	1890	610	1"	126.9	6	16801
Flexcon 800	1.0	790	1890	610	1"	126.9	6	16802
Flexcon 800	1.5	790	1890	610	1"	126.9	6	16803
Flexcon 800	2.0	790	1890	610	1"	126.9	6	16804
Flexcon 800	2.5	790	1890	610	1"	126.9	6	16805
Flexcon 800	3.0	790	1890	610	1"	126.9	6	16806
Flexcon 800	on request	790	1890	610	1"	126.9	6	16800
Flexcon 1000	0.5	790	2270	610	1"	145.9	6	16901
Flexcon 1000	1.0	790	2270	610	1"	145.9	6	16902
Flexcon 1000	1.5	790	2270	610	1"	145.9	6	16903
Flexcon 1000	2.0	790	2270	610	1"	145.9	6	16904
Flexcon 1000	2.5	790	2270	610	1"	145.9	6	16905
Flexcon 1000	3.0	790	2270	610	1"	145.9	6	16906
Flexcon 1000	on request	790	2270	610	1"	145.9	6	16900





Flamco



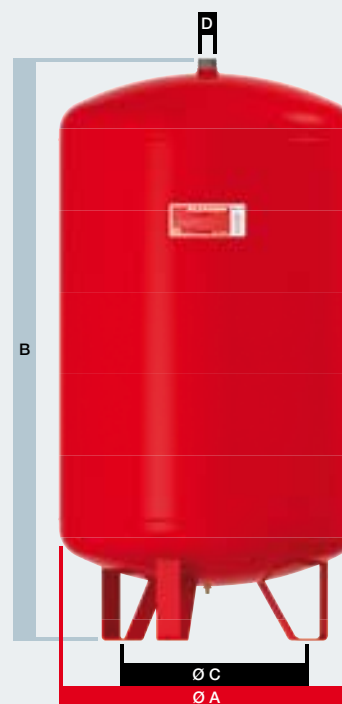
Flexcon® expansion vessels from 110 - 1000 litres

Standard Flexcon vessels for heating installations and also for cooled water installations down to a minimum temperature of – 10 °C and a max. ethylene glycol percentage of 50%.

- ◆ The Flexcon vessels shown below are suitable for a maximum operating pressure of up to 10 bar.
- ◆ In the case of Flexcon vessels from 110 - 300 litres, a 12-mm soldered coupling and the equipment to fit it are supplied.
- ◆ To make a proper calculation for the Flexcon expansion vessel, please see the calculation programme on the CD.
- ◆ Different pre-pressures are available on request.

Versions and dimensions of Flexcon 10-bar vessels

Type	Pre-pressure in bars	Dimensions in mm			Connection (male) D	Weight in kg	Max. operating pressure in bars	Code number
		ØA	B	ØC				
Flexcon 110	0.5	484	784	360	1"	38.5	10	16101
Flexcon 110	1.0	484	784	360	1"	38.5	10	16102
Flexcon 110	1.5	484	784	360	1"	38.5	10	16103
Flexcon 110	2.0	484	784	360	1"	38.5	10	16104
Flexcon 110	2.5	484	784	360	1"	38.5	10	16105
Flexcon 110	3.0	484	784	360	1"	38.5	10	16106
Flexcon 110	on request	484	784	360	1"	38.5	10	16100
Flexcon 140	0.5	484	950	360	1"	44.6	10	16131
Flexcon 140	1.0	484	950	360	1"	44.6	10	16132
Flexcon 140	1.5	484	950	360	1"	44.6	10	16133
Flexcon 140	2.0	484	950	360	1"	44.6	10	16134
Flexcon 140	2.5	484	950	360	1"	44.6	10	16135
Flexcon 140	3.0	484	950	360	1"	44.6	10	16136
Flexcon 140	on request	484	950	360	1"	44.6	10	16130
Flexcon 200	0.5	600	960	450	1"	49.3	10	16191
Flexcon 200	1.0	600	960	450	1"	49.3	10	16192
Flexcon 200	1.5	600	960	450	1"	49.3	10	16193
Flexcon 200	2.0	600	960	450	1"	49.3	10	16194
Flexcon 200	2.5	600	960	450	1"	49.3	10	16195
Flexcon 200	3.0	600	960	450	1"	49.3	10	16196
Flexcon 200	on request	600	960	450	1"	49.3	10	16190
Flexcon 300	0.5	600	1330	450	1"	73.7	10	16291
Flexcon 300	1.0	600	1330	450	1"	73.7	10	16292
Flexcon 300	1.5	600	1330	450	1"	73.7	10	16293
Flexcon 300	2.0	600	1330	450	1"	73.7	10	16294
Flexcon 300	2.5	600	1330	450	1"	73.7	10	16295
Flexcon 300	3.0	600	1330	450	1"	73.7	10	16296
Flexcon 300	on request	600	1330	450	1"	73.7	10	16290
Flexcon 425	0.5	790	1180	610	1"	105.5	10	16411
Flexcon 425	1.0	790	1180	610	1"	105.5	10	16412
Flexcon 425	1.5	790	1180	610	1"	105.5	10	16413
Flexcon 425	2.0	790	1180	610	1"	105.5	10	16414
Flexcon 425	2.5	790	1180	610	1"	105.5	10	16415
Flexcon 425	3.0	790	1180	610	1"	105.5	10	16416
Flexcon 425	on request	790	1180	610	1"	105.5	10	16410
Flexcon 600	0.5	790	1540	610	1"	132.0	10	16591
Flexcon 600	1.0	790	1540	610	1"	132.0	10	16592
Flexcon 600	1.5	790	1540	610	1"	132.0	10	16593
Flexcon 600	2.0	790	1540	610	1"	132.0	10	16594
Flexcon 600	2.5	790	1540	610	1"	132.0	10	16595
Flexcon 600	3.0	790	1540	610	1"	132.0	10	16596
Flexcon 600	on request	790	1540	610	1"	132.0	10	16590
Flexcon 800	0.5	790	1890	610	1"	182.0	10	16791
Flexcon 800	1.0	790	1890	610	1"	182.0	10	16792
Flexcon 800	1.5	790	1890	610	1"	182.0	10	16793
Flexcon 800	2.0	790	1890	610	1"	182.0	10	16794
Flexcon 800	2.5	790	1890	610	1"	182.0	10	16795
Flexcon 800	3.0	790	1890	610	1"	182.0	10	16796
Flexcon 800	on request	790	1890	610	1"	181.8	10	16790
Flexcon 1000	0.5	790	2270	610	1"	212.0	10	16891
Flexcon 1000	1.0	790	2270	610	1"	212.0	10	16892
Flexcon 1000	1.5	790	2270	610	1"	212.0	10	16893
Flexcon 1000	2.0	790	2270	610	1"	212.0	10	16894
Flexcon 1000	2.5	790	2270	610	1"	212.0	10	16895
Flexcon 1000	3.0	790	2270	610	1"	212.0	10	16896
Flexcon 1000	on request	790	2270	610	1"	208.0	10	16890





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White Flexcon expansion vessel and Flexconsole, Flexcon Solar, Flexcon Pro and Flexcon P

- ◆ The white Flexcon 18-litre expansion vessel is ideal for locations in the home (bathroom or kitchen) or in the office. There is also a matching white Flexconsole
- ◆ Flexcon Solar vessels are especially suitable for use in closed solar-energy central heating installations with a supply temperature up to 120 °C. Maximum operating temperature 70 °C. Suitable for glycol solutions up to 50%.
- ◆ Flexcon Pro expansion vessels with replaceable butyl membrane for use in closed central heating, cooling and air-conditioning installations.
- ◆ Flexcon P vessels have a flat disc shape with practical suspension eye which makes fast and easy wall mounting possible. The water connection is underneath. The Flexcon P, thanks to its limited dimensions, requires little space.

Versions and dimensions of Flexcon white 3 bar and Flexconsole white

Type	Pre-pressure in bars	Dimensions in mm			Connection (male) D	Weight in kg	Code number
ØA	B	ØC					
Flexcon 18	0.5	286	409		3/4"	3.7	26181
Flexconsole							27989

Versions and dimensions of Flexcon Solar 8 bar

Type	Pre-pressure in bars	Dimensions in mm			Connection (male) D	Weight in kg	Code number
ØA	B	ØC					
Flexcon Solar 8	2.5	245	280		3/4"	3.2	16060
Flexcon Solar 12	2.5	286	313		3/4"	4.3	16061
Flexcon Solar 18	2.5	328	306		3/4"	5.7	16062
Flexcon Solar 25	2.5	358	359		3/4"	7.3	16063
Flexcon Solar 35	2.5	396	416	263	3/4"	8.8	16064
Flexcon Solar 50	2.5	437	473	263	3/4"	11.2	16065
Flexcon Solar 80	2.5	519	540	360	1"	15	16066

Versions and dimensions of Flexcon Solar 10 bar

Type	Pre-pressure in bars	Dimensions in mm			Connection (male) D	Weight in kg	Code number
ØA	B	ØC					
Flexcon Solar 110	2.5	484	784	360	1"	38.5	16067
Flexcon Solar 140	2.5	484	950	360	1"	44.6	16068
Flexcon Solar 200	2.5	600	960	450	1"	49.3	16069
Flexcon Solar 300	2.5	600	1330	450	1"	73.7	16070
Flexcon Solar 425	2.5	790	1180	610	1"	105.5	16071
Flexcon Solar 600	2.5	790	1540	610	1"	132	16072
Flexcon Solar 800	2.5	790	1888	610	1"	181.8	16073
Flexcon Solar 1000	2.5	790	2268	610	1"	211	16074

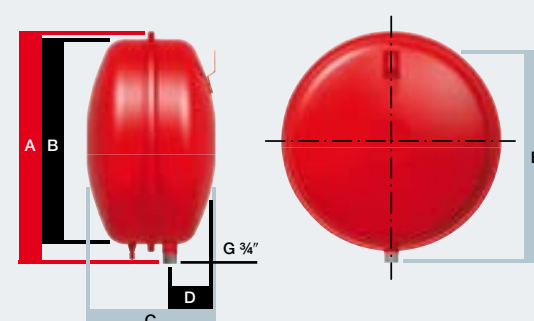
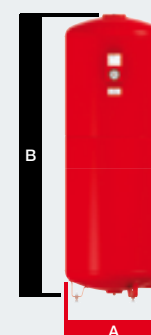
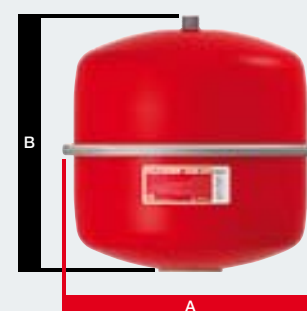
Versions and dimensions of Flexcon Pro 6 bar

Type	Pre-pressure in bars	Dimensions in mm			Connection (male) D	Weight in kg	Code number
ØA	B						
Flexcon Pro 200	*	550	1150		1"	47	25420
Flexcon Pro 250	*	550	1400		1"	55	25425
Flexcon Pro 300	*	550	1650		1"	63	25430
Flexcon Pro 370	*	650	1350		1"	74	25431
Flexcon Pro 430	*	750	1170		1"	87	25443
Flexcon Pro 540	*	750	1420		1"	108	25454
Flexcon Pro 650	*	750	1670		1"	125	25465
Flexcon Pro 770	*	750	1950		1"	153	25477
Flexcon Pro 870	*	750	2200		1"	172	25487
Flexcon Pro 1000	*	750	2450		1"	180	25500

* Specify pre-pressure when ordering.

Versions and dimensions of Flexcon P 3 bar

Type	Pre-pressure in bars	Dimensions in mm						Connection (male) D	Weight in kg	Code number
A	B	C	D	E						
Flexcon P 18	1.0	387	360	226	80	365		3/4"	5.7	13316
Flexcon P 25	1.0	435	405	256	90	415		3/4"	7.7	13326
Flexcon P 35	1.0	435	405	333	110	450		3/4"	8.9	13336
Flexcon P 50	1.5	515	484	344	125	505		3/4"	11.8	13357





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Flexcon® M expansion vessels from 80 - 8000 litres

Flexcon M expansion vessels with exchangeable diaphragm for heating and cooling installations.

- ◆ Flexcon M vessels are suitable for a maximum operating pressure of 6, 10, 16 and 25 bars respectively.
- ◆ All Flexcon M vessels have a flange construction.
- ◆ The flange construction enables the butyl rubber diaphragm to be exchanged if necessary.
- ◆ Special versions of the Flexcon M expansion vessel, e.g. horizontal, are available on request.

Versions of Flexcon M vessels 6 and 10 bar

Type	Volume litres	System connection vessel	Weight 6 bar in kg	Code number 6 bar	Weight 10 bar in kg	Code number 10 bar
Flexcon M 80	80	1"	45	22101	85	22141
Flexcon M 400	400	1 1/4"	115	22104	160	22144
Flexcon M 600	600	1 1/4"	145	22105	200	22145
Flexcon M 800	800	1 1/4"	180	22106	250	22146
Flexcon M 1000	1000	1 1/2"	215	22107	300	22147
Flexcon M 1200	1200	1 1/2"	285	22108	410	22148
Flexcon M 1600	1600	1 1/2"	340	22109	485	22149
Flexcon M 2000	2000	2"	425	22110	600	22150
Flexcon M 2800	2800	2 1/2"	510	22118	725	22158
Flexcon M 3500	3500	2 1/2"	620	22111	900	22151
Flexcon M 5200	5200	2 1/2"	1050	22112	1330	22152
Flexcon M 6700	6700	DN 100	1200	22113	1690	22153
Flexcon M 8000	8000	DN 100	1410	22114	2140	22154

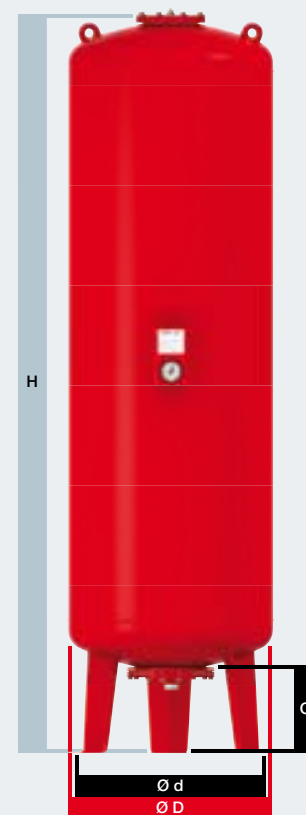
Dimensions of Flexcon M vessels

Type	Dimensions in mm			
	ØD	H	C	Ød
Flexcon M 80	450	770	-	-
Flexcon M 400	750	1335	290	680
Flexcon M 600	750	1755	290	680
Flexcon M 800	750	2155	290	680
Flexcon M 1000	750	2710	290	680
Flexcon M 1200	1000	1940	175	850
Flexcon M 1600	1000	2440	175	850
Flexcon M 2000	1200	2180	175	1050
Flexcon M 2800	1200	2800	175	1050
Flexcon M 3500	1200	3600	175	1050
Flexcon M 5200	1500	3420	200	1100
Flexcon M 6700	1500	4310	200	1100
Flexcon M 8000	1500	5090	200	1100

Flexcon M vessels with operating pressures of more than 10 bars can be delivered on request. Please state the desired pre-pressure when ordering. If this is not done, the vessel will be supplied with a pre-pressure of 4 or 6 bar.

Versions of Flexcon M vessels 16 and 25 bars

Type	Volume litres	System connection vessel	Code number 6 bar	Code number 10 bar
Flexcon M 80	80	1"	22201	22241
Flexcon M 120	120	1 1/2"	22202	22242
Flexcon M 200	200	1 1/2"	22203	22243
Flexcon M 300	300	1 1/2"	22204	22244
Flexcon M 400	400	1 1/4"	22205	22245
Flexcon M 600	600	1 1/4"	22206	22246
Flexcon M 800	800	1 1/4"	22207	22247
Flexcon M 1000	1000	1 1/2"	22208	22248
Flexcon M 1200	1200	1 1/2"	22209	22249
Flexcon M 1600	1600	1 1/2"	22210	22250
Flexcon M 2000	2000	2"	22211	22251
Flexcon M 2800	2800	2 1/2"	22212	22252
Flexcon M 3500	3500	2 1/2"	22213	22253
Flexcon M 5200	5200	2 1/2"	22214	22254
Flexcon M 6700	6700	DN 100	22215	22255
Flexcon M 8000	8000	DN 100	22216	22256





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Flexcon® V-B intermediate vessels

Flexcon V-B intermediate vessels for cooling of expansion water. CE-approved.

- ◆ Flexcon V-B vessels from 1200 - 2000 litres with a maximum working pressure of 6 or 10 bars respectively.
- ◆ At a feed temperature of 90 - 110 °C, the capacity of the Flexcon intermediate vessel must be 15% of the net expansion volume.
- ◆ At a feed temperature of 111 - 125 °C, this is 25% and at a feed temperature of 126 - 140 °C, this is 40%.



Versions of Flexcon V-B intermediate vessels

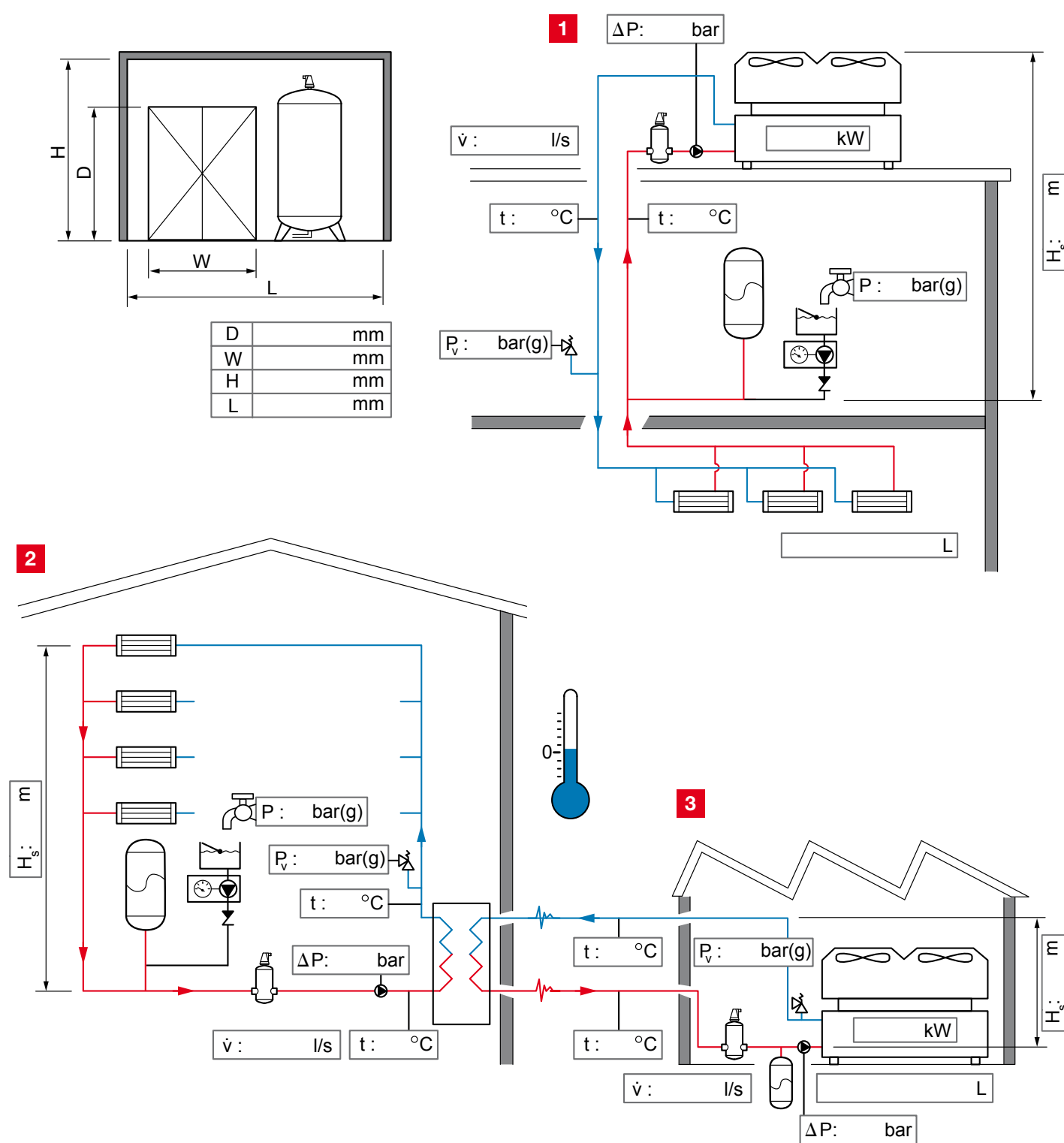
Type	Capacity litres	Weight 6 bar version in kg	Weight 10 bar version in kg	Code nr. 6 bar 120 °C version	Code nr. 10 bar 120 °C version	Code nr. 10 bar 160 °C version
Flexcon V-B 180	180	80	100	22711	22721	22731
Flexcon V-B 400	400	115	155	22712	22722	22732
Flexcon V-B 600	600	145	195	22713	22723	22733
Flexcon V-B 800	800	180	245	22714	22724	22734
Flexcon V-B 1000	1000	215	305	22715	22725	22735
Flexcon V-B 1200	1200	285	395	22716	22726	22736
Flexcon V-B 1600	1600	340	480	22717	22727	22737
Flexcon V-B 2000	2000	425	570	22718	22728	22738

Dimensions of Flexcon V-B intermediate vessels

Type	ØD	Dimensions in mm		Connection	
		H	c	ds	de
Flexcon V-B 180	550	1225	325	1 1/4" ext.	1 1/4" int.
Flexcon V-B 400	750	1375	315	1 1/4" ext.	1 1/4" int.
Flexcon V-B 600	750	1795	315	1 1/4" ext.	1 1/4" int.
Flexcon V-B 800	750	2195	315	1 1/4" ext.	1 1/4" int.
Flexcon V-B 1000	750	2730	315	1 1/2" ext.	1 1/2" int.
Flexcon V-B 1200	1000	1980	200	1 1/2" ext.	1 1/2" int.
Flexcon V-B 1600	1000	2480	200	1 1/2" ext.	1 1/2" int.
Flexcon V-B 2000	1200	2220	200	2" ext.	2" int.



**See Flamco CD for
heating system lay-outs**





FLEXCON 2 - 80



FLEXCON P



FLEXCON 110 - 1000



FLEXCON M



FLEXCON V-B

FLEXCON® EXPANSION VESSELS

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On the Flamco CD you will find all available information of all Flamco products.

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