

Flextherm PS-H(+)

Buffer-/ intermediate vessels

that's excellence.



ENG Installation and operating manual

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1. Technical data

Flextherm PS-H: Steel vessels to reduce the on/of cycling of the heat pump as buffer vessel or to protect Flexcon expansion vessels on elevated temperature systems.

Flextherm PS-H+: Buffer vessels for use in smaller closed heating installations.

If a heat pump produces more heat than the heat requirement at a certain time, it's recommended to buffer this excess heat and meanwhile reducing the on/off cycling of the heat pump to increase the product life time. When the energy is stored in the buffer the complete system will be more consistent and easier to control by eliminating the temperature fluctuations.

Permissible system pressure	Maximum: 10 bar
system temperature	Minimum / Maximum: -10°C / 95°C
Thermal insulation	24 L, none 50 & 100 L, Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1
Top & bottom Connections	24 L, G $\frac{3}{4}$ "M 50 & 100L, G $\frac{1}{2}$ "F
Side connetions	24L, - 50 & 100L, G1"F
glycol-based anti-freeze	up to 50%.

See type plate and datasheet for further technical data

2. Safety requirement

Read these instructions carefully before commencing installation. For any additional questions, please consult our customer service department (see contact details).



WARNING:

Do not expose the insulation to open fire!

3. Installation


Installation, commissioning and maintenance must be carried out by specialists according to the applicable regulations (including EN 12828 and VDI 2035, the relevant regulations for local distributors, national legislation and other regulations).

Suitable measures must be taken to protect the vessels from damage caused by under pressure. Damage that is caused by under pressure (vacuum) is not covered by the warranty. Protective gloves must be worn when cleaning inside the unit.

Furthermore, facilities for the secure collection and drainage of water from the vessel must be provided to avoid water damage.


PS-H+

- When wall hung. It's possible to mount a drain valve on the bottom connection of the vessel.
- When floor standing (remove the connection escutcheon at the bottom, for stable floor standing and close off this connection (by means of a plug) and create a separate drain of point near the return connection.



WARNING

Hot water may escape from the safety valves or when draining the vessel. Danger - risk of scalding.



WARNING

Failure to comply with this instruction may result in damage to the vessel.

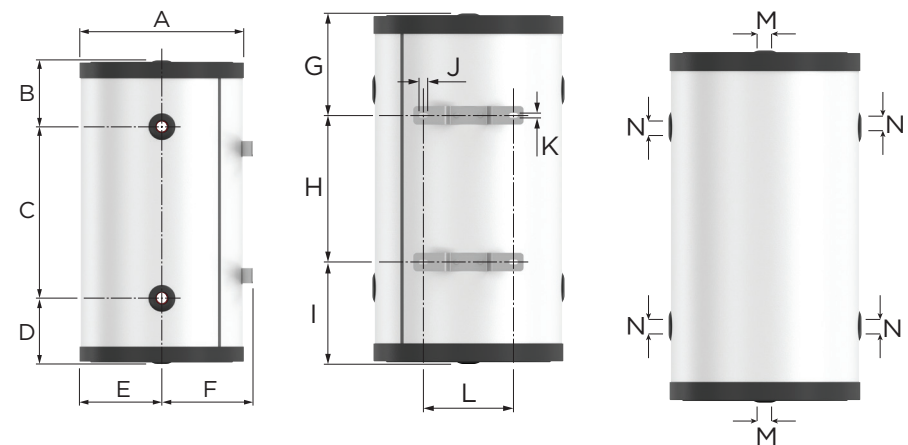
4. Description of connection

Flextherm PS-H



	Ø A	B	C	D
	[mm]	[mm]	[mm]	[mm]
24 L	273	505	G¾"M	20

Flextherm PS-H+

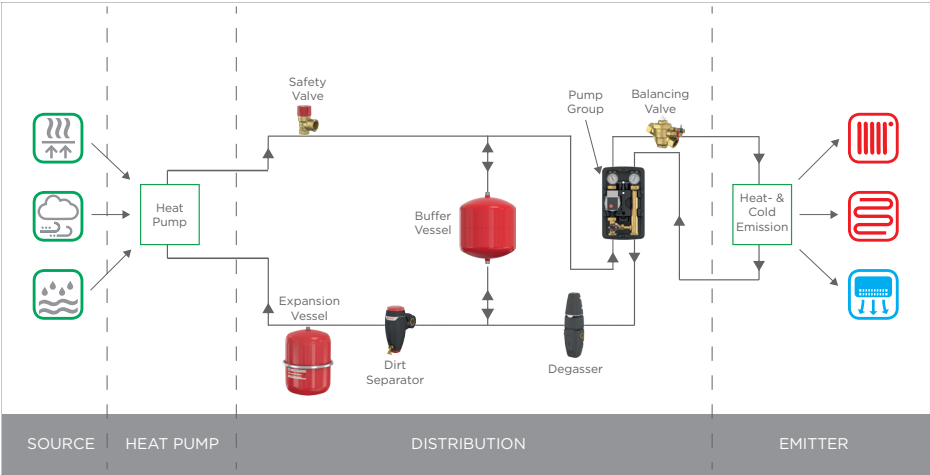


Size	Ø A	B	C	D	E	F	G	H	I	J	K	L
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
50 L	405	180	520	180	200	235	180	520	180	20	11	165
100 L	510	200	540	200	255	290	270	400	270	25	13	245

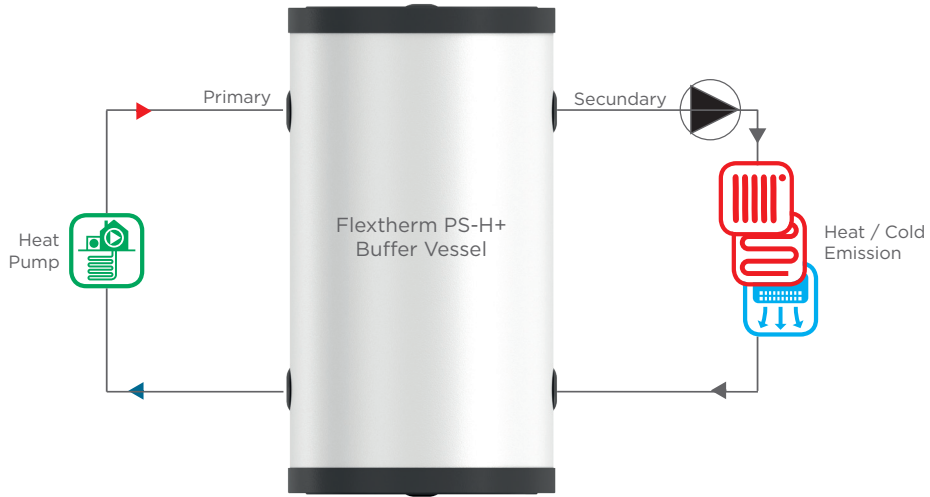
Size	M	N
	[""]	[""]
50 L	G½"F	G1"F
100 L	G½"F	G1"F

5. Installation Examples

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6. Commissioning

The entire system must be thoroughly flushed before commissioning. The system may only be set up in frost-free rooms and a surface that is sufficiently able to bear the load of the completely filled tank.

Any unused connections must be professionally sealed.

7. Inspection & maintenance

No liability shall be accepted for damage that is caused by failure to follow the installation and operating instructions. The vessel must be installed to allow easy access for maintenance, operation, repairs or replacement. Site preparation and suitability for installation of the vessel are not the responsibility of the manufacturer or the responsible distributor. Furthermore, facilities for the secure drainage of the vessel in the event of any water leakage must be provided to avoid water damage .

Removal

Once cooled, depressurize the system and remove the product from the system. Local legislation must be adhered to when disposing of the various components.



Contact us !

We supply products for the installation industry in more than 70 countries. This is done from Flamco sales offices and via distributors who know the local market, and can give you the right advice at all times.

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