Part.nr.:

171140, 171142, 171144

Heating buffer TERMO 100 / TERMO 300 / TERMO 500

ma_en_812528_TERMO

Description:
TERMO 100, TERMO 300 and TERMO 500 are high quality buffers to supply the heating circuits. The buffer chassis is made of quality steel and is foamed directly in the overjacket.
The insulation consists of a 30 mm PU-rigid foam for TERMO 100 and 75 mm PU- rigid foam for TERMO 300 / TERMO 500 and a lamination jacket. The cover is made of plastic. TERMO 100, TERMO 300 and TERMO 500 heating buffers can also be used as cooling buffers.
Attention: It is not possible to install a immersion heater in TERMO 100 and TERMO 300!

Scope of delivery:
- boiler chassis made of quality steel
- PU-rigid foam insulation
- PS-lamination jacket
- plastic cover
- leveling feet to adjust the boiler (except TERMO 100)

Design information:
The heating buffer is available in two sizes.

Buffer capacity TERMO 100, TERMO 300, TERMO 500

capacity	intended purpose
100 liter	for a single home as heating- or cooling buffer
301 liter 473 liter	for a single home, eventually in combination with a solar system

Heating water quality:
For filling heating systems, a number of guidelines should be adhered to, including the following:
- europa standard EN 12828
- ÖNORM H 5195
- VDI guideline Nr. 2035

Special attention should be payed to water hardness. 1° dH correlates in practise with separated 17 mg/l.
In a heating system with a capacity of approximately 300 litre water (TERMO 300), this results in more than 20°dH or 102 gramm chalk.
To avoid damage from calcification, the heating water quality has to be improved (softening, desalting) if the hardness of the water is more than 14°dH or if the concentration of calciumhydrogen-carbonate is more than 2,5 mol/m3.
It should be ensured that the pH-value of the heating water is between 8 and 9,5.

	TERMO 100	TERMO 300	TERMO 500
energy efficiency loss	C	B	B
average thermal dissipation loss	30 W	59 W	73 W

EC-Declaration of Conformity

iDM-Energiesysteme herewith declares, that the hot water storage tanks, described overleaf, fulfill the provisions of the following relevant Community harmonization legislation:

- Directive 2009/125/EC of the European Parliament and of the Council of October 21st, 2009 on the establishment of a framework for the setting of eco-design requirements for energy-related products.
- Directive 2010/30/EU of the European Parliament and of the Council of May 19th, 2010 on the indication of the consumption of energy and other resources by energy-related products, by labelling and standard product information.

The delegated regulation (EU) No 814/2013 of the commission of August 2nd, 2013, as well as the delegated regulation (EU) No 812/2013 of the commission of February 18th, 2013, have also been fulfilled.

The following standards and technical specifications of hot water storage tanks have been applied:
- DIN EN 12897 water supply – specification for indirectly heated unvented (closed) storage water heaters; german version EN 12897:2006

Matrei i. O., 21.10.2015

IDM-ENERGIESYSTEME GMBH
A-9971 Matrei i.O.
Seblas 16-18
Tel. 04875/6172
Fax 048757617285

ppa. Ing. Andreas Bachler
Technische Leitung

812528_Rev.9.3 - Translation of original instruction

Part.nr.:

171140, 171142, 171144

Heating buffer TERMO 100 / TERMO 300 / TERMO 500

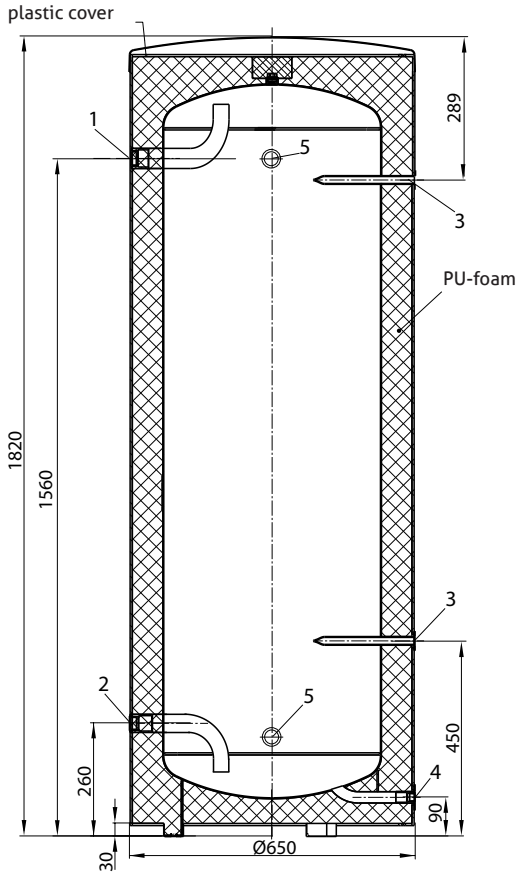
ma_en_812528_TERMO

HEAT PUMPS

Technical data TERMO 300/TERMO 500:

technical data	unit	TERMO 100	TERMO 300	TERMO 500
storage capacity	l	100	301	473
max. operating pressure	bar	3	3	3
max. operating temperature	°C	95	95	95
height	mm	850	1820	1950
diameter	mm	510	650	750
insertion measure	mm	510	650	750
topple measure	mm	510	1890	2030
weight	kg	35	65	78

TERMO 300



*dimensions in mm

pos.	connection	dimension
1	forward flow	R 1" IG
2	return flow	R 1" IG
3	sleeve for temperature sensor	di = 20 mm
4	draining	R 1/2" IG
5	sleeve	R 1" IG

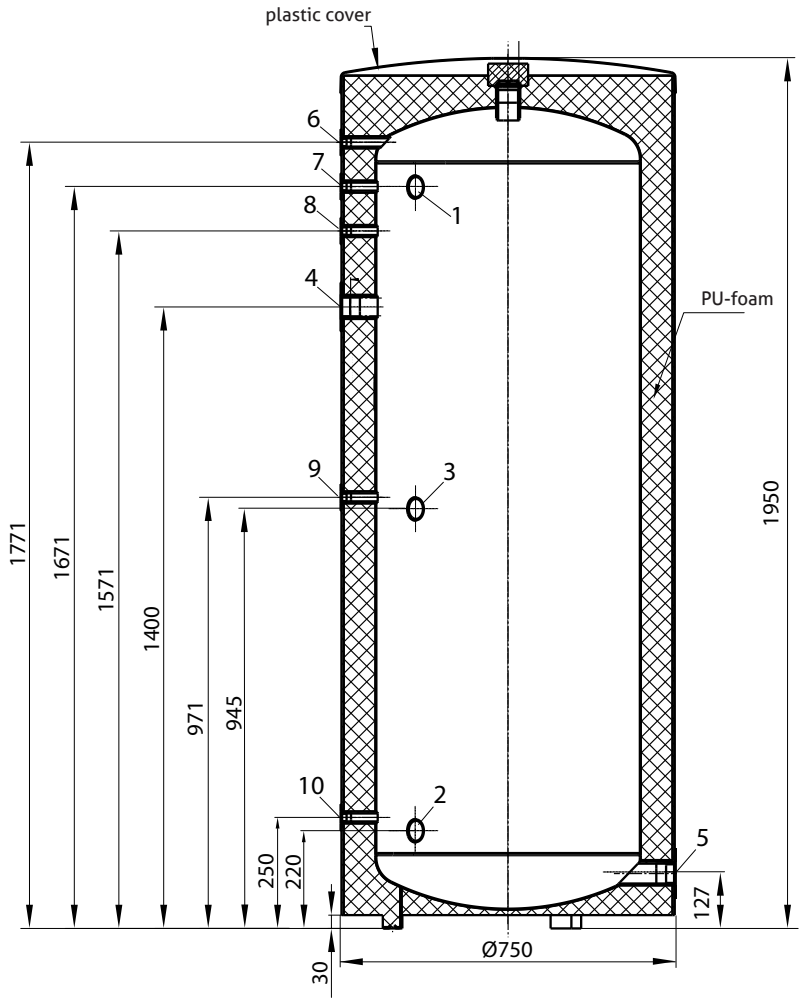
Part.nr.:

171140, 171142, 171144

Heating buffer TERMO 100 / TERMO 300 / TERMO 500

ma_en_812528_TERMO

TERMO 500



*dimensions in mm

pos.	connection	dimension
1	forward flow	R 1 1/2" IG
2	return flow	R 1 1/2" IG
3	sleeve	R 1 1/2" IG
4	sleeve	R 1 1/2" IG
5	draining	R 1 1/2" IG
6	sleeve	R 1/2" IG
7	sleeve	R 1/2" IG
8	sleeve for screw-in temp. sensor	R 1/2" IG
9	sleeve	R 1/2" IG
10	sleeve for screw-in temp. sensor	R 1/2" IG

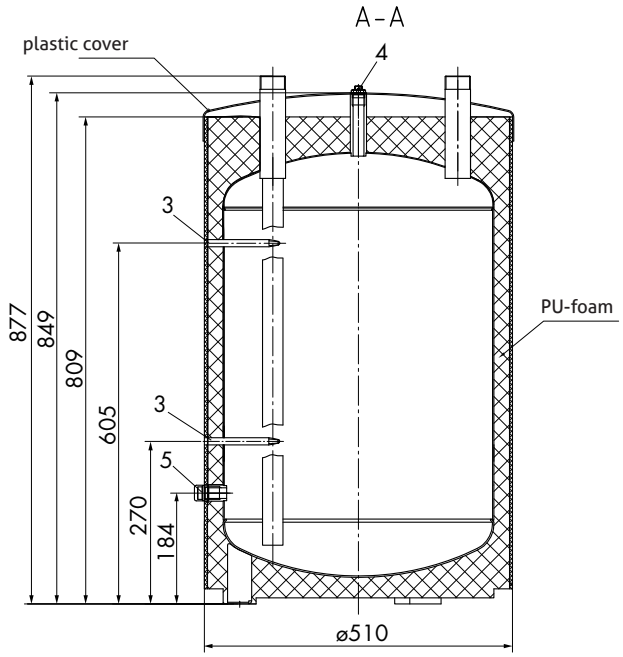
Part.nr.:

171140, 171142, 171144

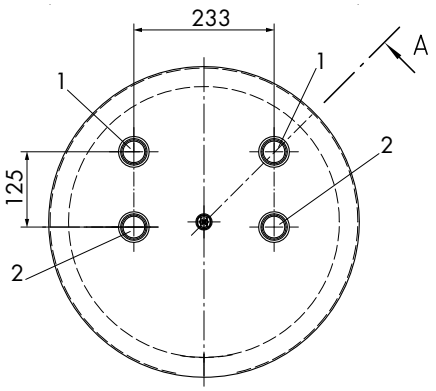
Heating buffer TERMO 100 / TERMO 300 / TERMO 500

ma_en_812528_TERMO

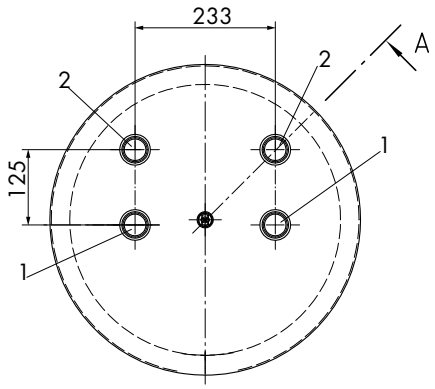
TERMO 100



connection TERMO 100 as a heating buffer



connection TERMO 100 as a cooling buffer



*dimensions in mm

pos.	connection	dimension
1	forward flow	R 1" IG
2	return flow	R 1" IG
3	sleeve temperature sensor	di = 20 mm
4	draining	1/2" IG
5	stopple	1/2" IG

As standard the TERMO 100 is supplied as a heating buffer. When using the buffer as a cooling buffer, please take care that the connections for flow and return must be replaced. See the drawings above.

The intermediate storage or storage of the buffer must always be carried out in dry conditions!