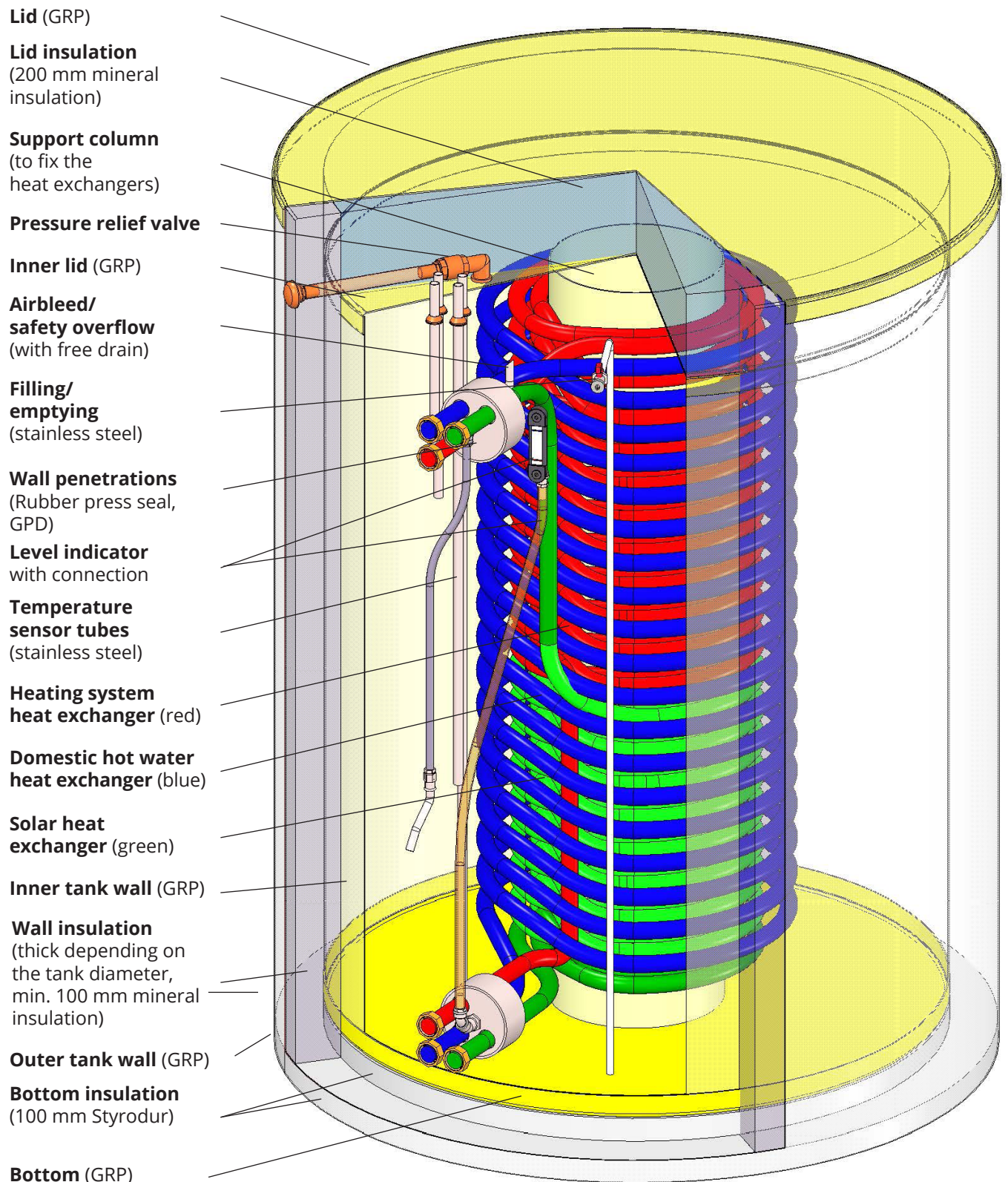


Schematic design of the Haase hot water tank T 400





Performance characteristics of the Haase hot water tank T 400

Dimensions of the standard sizes (other sizes on request)

Type	Volume	Dimensions (total)		Tank insulation			Weight (empty), ca.
		Diameter	Height	Top	Jacket	Bottom	
T 410-13	1,300 l	1.30 m	1.95 m	200 mm	140 mm	100 mm	150 kg
T 413-22	2,050 l	1.50 m	1.95 m	200 mm	100 mm	100 mm	185 kg
T 415-28	2,750 l	1.70 m	1.95 m	200 mm	100 mm	100 mm	210 kg
T 417-37	3,550 l	1.92 m	1.95 m	200 mm	110 mm	100 mm	235 kg
T 419-45	4,500 l	2.20 m	1.95 m	200 mm	140 mm	100 mm	270 kg

Configuration and performance characteristics of the standard types

Type	Standard configuration of the heat exchangers (sur-face)			Flow rate* (at 20 l/min)	
	Solar	Heating	DHW	litres	percent
T 410-13	S3 (3,4 m²)	H4 (4.5 m²)	B4 (4.5 m²)	ca. 1,000 l	76,9 %
T 413-22	S4 (4,5 m²)	H6 (6.8 m²)	B6 (6.8 m²)	ca. 1,600 l	78,0 %
T 415-28	S6 (6.8 m²)	H6 (6.8 m²)	B6 (6.8 m²)	ca. 2,200 l	80,0 %
T 417-37	S6 (6.8 m²)	H9 (9.0 m²)	B9 (9.0 m²)	ca. 2,800 l	78,9 %
T 419-45	S9 (9.0 m²)	H9 (9.0 m²)	B9 (9.0 m²)	ca. 3,600 l	80,0 %

* flow rate determined according to DIN ENV 12977-3:2001 "Thermal solar systems and components" (storage medium 60 °C, cold water 10 °C, unloading temperature 45 °C)

Specifications T 400

Specific feature:	site assembled construction
Storage medium:	water
Max. temperature:	95 °C
Max. pressure of the energy tank:	only unpressurized operation possible
loading and unloading system:	- internal high-grade steel corrugated pipes (1 1/2" flat sealing, max. 6 bar) - layer loading and unloading system (with external heat exchangers) - flanges (with external heat exchangers)

The loading and unloading systems can be combined!

Thermal conductivity of used materials

Material	Usage	Thermal conductivity in [W/(m*K)]
Mineral wool	Cover- and jacket insulation	0,040
Styrodur	Bottom insulation	0,034
High-grade steel	Heat exchangers	15,000
Glass fibre reinforced plastics	Tank material	0,197
For Comparison: steel	Tank material (other producers)	48 to 58