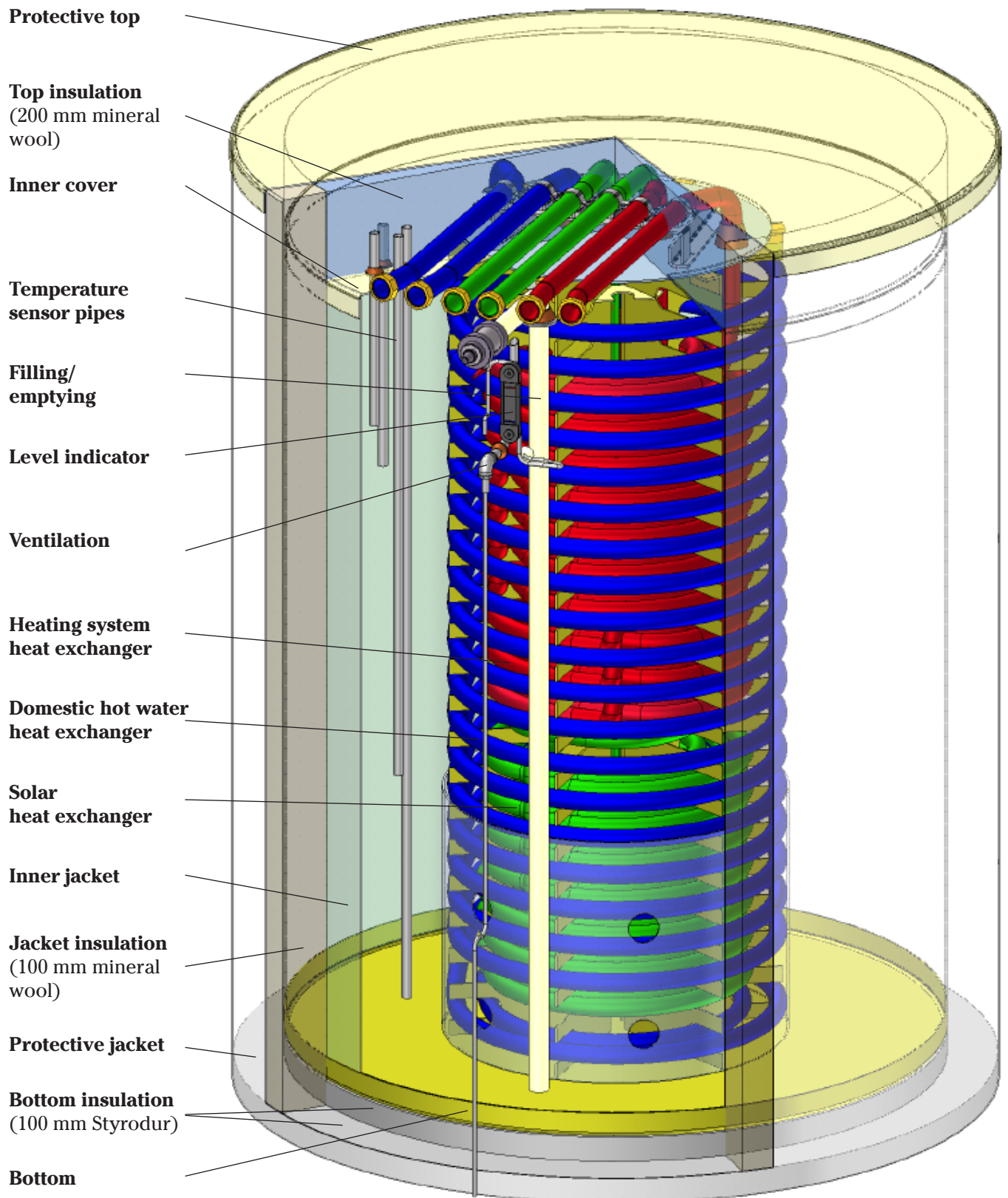


## Schematic design of the Haase energy tank T 400





## Performance characteristics of the Haase energy 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	
<b>T 410-13</b>	343 gal.	51"	77"	7,9"	5,5"	3,9"	330 lb.
<b>T 413-22</b>	541 gal.	59"	77"	7,9"	3,9"	3,9"	410 lb.
<b>T 415-28</b>	730 gal.	67"	77"	7,9"	3,9"	3,9"	460 lb.
<b>T 417-37</b>	940 gal.	76"	77"	7,9"	4,3"	3,9"	520 lb.
<b>T 419-45</b>	1.200 gal.	87"	77"	7,9"	5,5"	3,9"	600 lb.

Configuration and performance characteristics of the standard types

Type	Standard configuration of the heat exchangers (surface)			Flow rate* (at 20 l/min)	
	Solar	Heating	DHW	litres	percent
<b>T 410-13</b>	S3 (25 sq.ft.)	H4 (50 sq.ft.)	B4 (50 sq.ft.)	ca. 260 gal.	75,8 %
<b>T 413-22</b>	S4 (50 sq.ft.)	H6 (75 sq.ft.)	B6 (75 sq.ft.)	ca. 420 gal.	77,6 %
<b>T 415-28</b>	S6 (75 sq.ft.)	H6 (75 sq.ft.)	B6 (75 sq.ft.)	ca. 580 gal.	79,4 %
<b>T 417-37</b>	S6 (75 sq.ft.)	H9 (100 sq.ft.)	B9 (100 sq.ft.)	ca. 740 gal.	78,7 %
<b>T 419-45</b>	S9 (100 sq.ft.)	H9 (100 sq.ft.)	B9 (100 sq.ft.)	ca. 950 gal.	79,2 %

\* 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: 185 °F  
 Max. pressure: pressure-less mode  
 loading and unloading system: internal heat exchangers  
 (high-grade steel corrugated pipes, 1 1/2" inside thread, max. 6 bar) or  
 loading and unloading system with external heat exchangers,  
 according to the requirements)

## 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