

LATENTO[®]



LATENTO WP-S Heat pump solar storage system

Top investment for your energy.





LATENTO WP-S – Low temperature with power

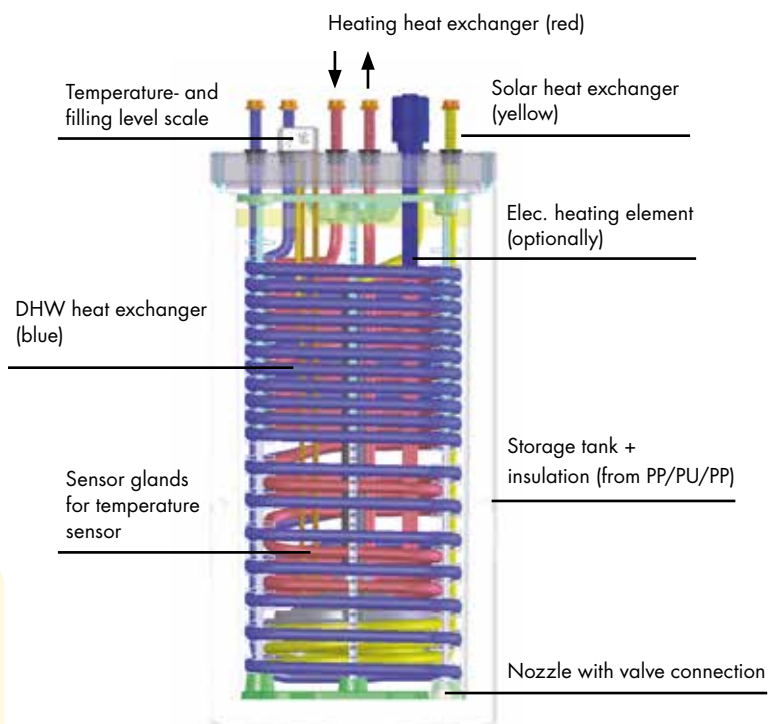
The **LATENTO** WP-S is an unpressurised layer storage unit that has been specially developed for use in conjunction with heat pumps up to 15 kW capacity. It is used as a water heater and to back up the heating system in single family houses and apartment buildings using the energy from heat pump and solar collectors.

The heat exchangers, which have been specially adapted to the low energy level of heat pumps, allow optimum storage and use of the energy from the heat pump for water heating and to back up the heating system. At the same time, there is sufficient storage capacity available in the upper temperature range (up to 85°C) for solar energy on sunny days.

The proven characteristics of **LATENTO** storage units (corrosion and maintenance-free, excellent heat insulation, compact and handy etc.) apply equally to the **LATENTO** WP-S of course.

Your advantages at a glance:

- ideal for combination with heat pumps up to 15 kW
- efficient and energy-saving heat production
- high continuous output during heat extraction
- no separate heat pump storage unit necessary
- excellent heat transfer
- excellent heat insulation (tank)
- maintenance-free
- compact and handy
- ready for connection



Modelltyp LATENTO Heat Pump solar storage system	WP-S
Size Container	500
Material Container	Polypropylene
Material Top	Polypropylene
Material Insulation	Polyurethane
Length [cm]	78
Width [cm]	78
Height [cm]	158
Diagonal measurement	176
Weight empty [kg]	105
Weight empty with latent material [kg]	125
Gross capacity	536
Net content [l]	500
Net content plus content heat exchangers [l]	551
Average hourly temperature loss [K/h]	0,1
Max. storage temperature [°C]	85
Tapping rating [l] (65 °C storage temperature) without re-heating (20l/min, 10/45)	330
Tapping rating [l] (58 °C storage temperature) without re-heating (20l/min, 10/45)	163
Tapping rating [l] (58 °C storage temperature) without re-heating (15l/min, 10/45)	188
Tapping rating [l] (58 °C storage temperature) without re-heating (10l/min, 10/45)	208
Tapping rating [l] (54 °C storage temperature) without re-heating (20l/min, 10/45)	131
Tapping rating [l] (54 °C storage temperature) without re-heating (15l/min, 10/45)	175
Tapping rating [l] (54 °C storage temperature) without re-heating (10l/min, 10/45)	195
Tapping rating [l] (50 °C storage temperature) without re-heating (20l/min, 10/45)	88
Tapping rating [l] (50 °C storage temperature) without re-heating (15l/min, 10/45)	140
Tapping rating [l] (50 °C storage temperature) without re-heating (10l/min, 10/45)	155
Continuous rating [l/h] (65 °C storage temperature re-heating flow 75 °C (20 l/min, 10/45))	Continuous rating
Continuous rating [l/h] (65 °C storage temperature re-heating flow 85 °C (20 l/min, 10/45))	Continuous rating
Continuous power (85 °C re-heating) [l/h]	1700
Continuous power QD 85/10/45 (kW)	69
Nominal power rating NL* (DIN 4708-3, Heating power 60 kW)	10*
Electrical heating element 9 kW at stand alone installation (flow 50, return 40, TPO 65 °C)	8
SOLAR HEAT EXCHANGER	Long-wave stainless steel corrugated pipe DN 25 (ø 32.8 x 0.3 mm)
Length [m]	14
Surface area [m²]	2,2
Water content [l]	9,8
Pressure loss (bar) (40 °C; 1200 l/h)	0,1028
Collector surface recommendation for CPC vacuum tube collector (m²)	G 1 1/4
Connection	14
DRINKING WATER HEAT EXCHANGER	Long-wave stainless steel corrugated pipe DN 25 (ø 32.8 x 0.3 mm)
Length [m]	39,3
Surface area [m²]	5,7
Water content [l]	27,5
Pressure loss (bar) (40 °C; 1200 l/h)	0,3147
Connection	G 1 1/4
HEATING & DISCHARGE HEAT EXCHANGER	Long-wave stainless steel corrugated pipe DN 25 (ø 32.8 x 0.3 mm)
Length [m]	27,3
Surface area [m²]	4
Water content [l]	19
Pressure loss (bar) (40 °C; 1200 l/h)	0,2335
Connection	G 1 1/4

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