

Overview of our storage tanks - the right solution for every heating system

Solar storage tank			Domestic water storage tank							Buffer storage tank			
ESS-PU	SSH	SSH-Plus	EBS-PU	BS	HLS-Plus	PSB	HSO	WWS-TS	SPSX	SPSX-G/ SPSX-2G	PSX-ECO		
Bare-tube heat exchanger			Bare-tube heat exchanger							Bare-tube heat exchanger			
2	2	3	1	1	1 - 2	0	1	1	0	1 - 2	0		
Compressive strenght			Compressive strenght							Compressive strenght			
10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	10 bar	3 bar	3 bar	3 bar		
Insulation HS = PU rigid foam			Insulation HS = PU rigid foam							Insulation			
HS	Fleece	Fleece	HS	Fleece	Fleece	Fleece	HS	HS	Fleece	Fleece	Fleece		
Contents			Contents							Contents			
200 l to 500 l	300 l to 2.000 l	350 l to 800 l	120 l to 500 l	120 l to 2.000 l	150 l to 800 l	200 l to 2.000 l	120 l to 150 l	120 l to 200 l	200 l to 3.000 l	500 l to 2.000 l	200 l to 3.000 l		
Standard energy efficiency class			Standard energy efficiency class							Standard energy efficiency class			
Detailed product information and technical data are provided on the following pages:													
p. 10	p. 12	p. 14	p. 18	p. 20	p. 22	p. 24	p. 26	p. 28	p. 32	p. 34	p. 36		
The suitable storage tank for your complete system Note: Special solutions such as the combination of various heat sources also allow for other applications.													
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■	■	■	■	■	■	■	■	■	■				
■	■	■	■	■	■	■	■	■	■				
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			System	Combined storage tank (Domestic water storage tank + Buffer storage tank)			Stainless steel storage tank			Other		
PSX-G-ECO	PS-BHKW	GPS (Großbuffer)	PSFW /-G	SKSW	WKS-WP	WKS	HSS	HBS	HPS	DWK	DLB	
			GWTs	Bare-tube heat exchanger			Bare-tube heat exchanger					
1	0	0	0 - 1	0 - 2	0 - 2	0 - 2	2	1	0	-	-	
			Com. st.	Compressive strenght			Compressive strenght					
3 bar	6 bar	3 bar	3 bar	3 bar	3 bar	3 bar	10 bar	10 bar	10 bar	4/6/10 bar	11/16 bar	
			Insulation	Insulation			Insulation					
Fleece	Fleece	Fleece	Fleece	Fleece	Fleece	Fleece	Fleece	Fleece	Fleece	-	-	
			Contents	Contents			Contents					
500 l to 2.000 l	500 l to 2.000 l	2.000 l to 10.000 l	500 l to 1.000 l	600 l to 1.500 l	600 l to 1.500 l	600 l to 1.500 l	200 l to 2.000 l	150 l to 2.000 l	150 l to 2.000 l	60 l to 3.000 l	40 l to 1.000 l	
			Class	Standard energy efficiency class			Standard energy efficiency class					
											-	-
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Quality features

1 High-grade bare-tube heat exchangers

Thanks to a special heat exchanger design and arrangement a high extraction grade of up to 96% is achieved.

2 Domestic water-suited

Hygienically correct domestic water heating thanks to high-grade enamelling. An anode supplied as standard also provides protection from corrosion.

3 Connection stubs

Our connection stubs are a standard 50 mm in length. The fleece insulation thus insulates any non-used connections. This cuts radiation losses and an improved energy efficiency is achieved by the storage tank.

4 Use of the entire storage tank capacity

An optimum hot water connection at the top of the storage tank means that the storage tank capacity is fully utilised.

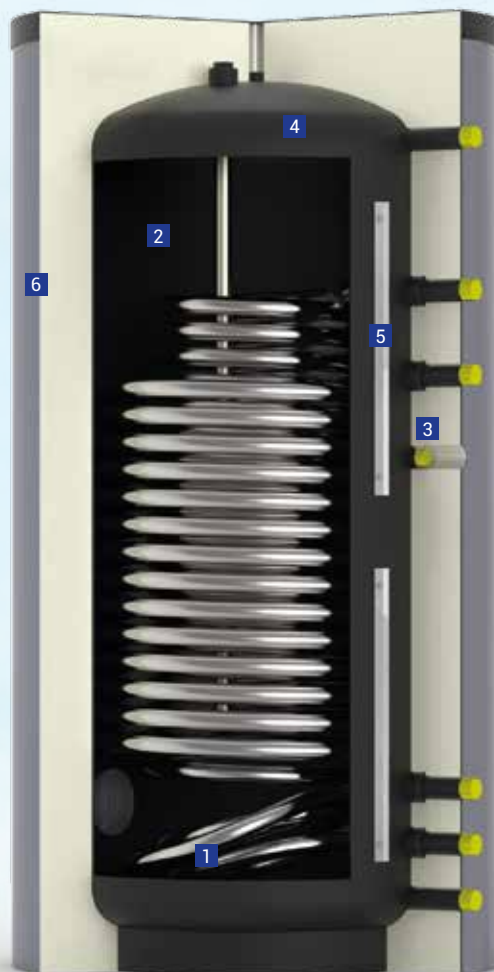
5 Flexible positioning of the temperature sensors

Sensor clamping strips allow the temperature sensor to be positioned at will. As a result, the Huch storage tanks are suitable for many application fields. (barring storage tanks with PU rigid foam; here firmly positioned sensor/controller connections).

6 Innovative highly efficient storage tank insulation

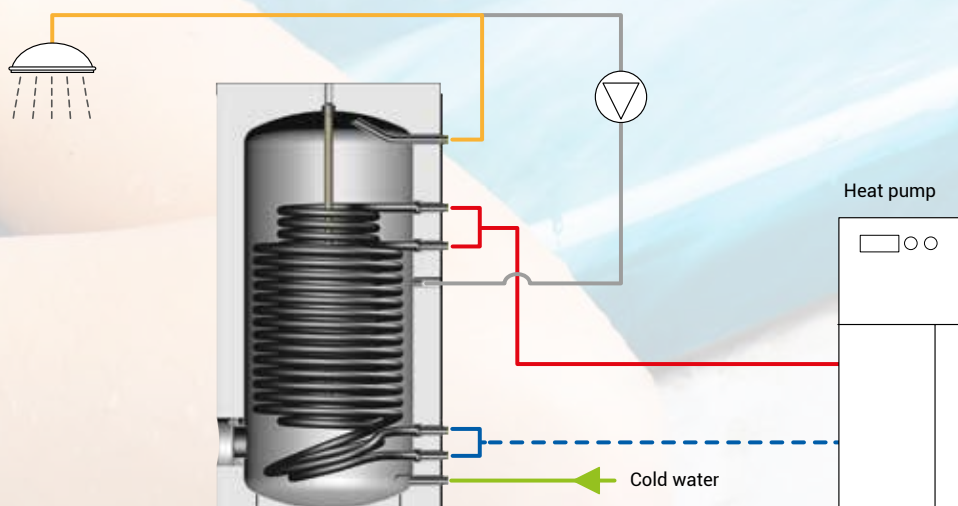
The high-grade Polyline© fleece insulation incl. a 100 mm lid and a 50 mm base insulation reduces heat loss by 10-15 % over soft foam.

PU rigid foam insulation - 50 mm high-grade polyurethane foam firmly wraps up the vessels in foam. No chimney effect develops and the insulation has excellent insulating properties.



The HLS-Plus domestic water storage tank is shown in the illustration.

Connection scheme

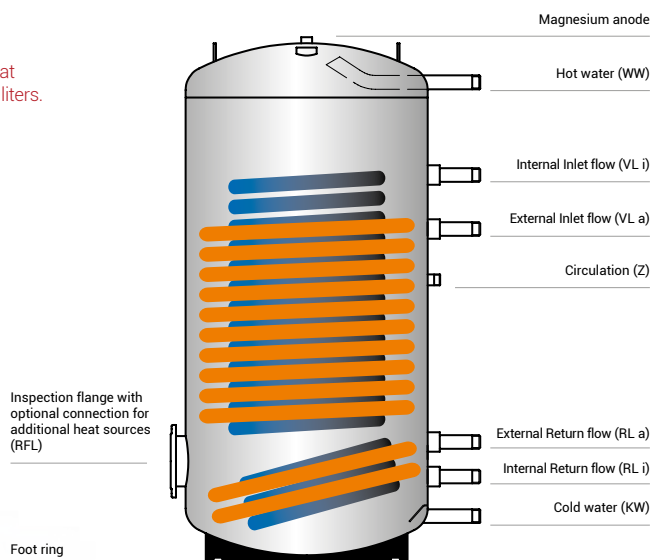


Schematic diagram – relevant standards and regulations must be observed!

Domestic water storage tank HLS-Plus



Note illustration:
Double bare-tube heat exchanger from 300 liters.



Price / Order number

Storage type	HLS-Plus	150	200	301	401	501	801
Price							
HLS-Plus without insulation	[€/item]	-	-	-	-	-	3164,-
HLS-Plus with insulation	[€/item]	1090,-	1215,-	1710,-	2112,-	2243,-	-
Fleece insulation	[€/item]	-	-	-	-	-	716,-
Order number							
HLS-Plus without insulation		-	-	-	-	-	26549
HLS-Plus with fleece insulation RAL 9006		50524	50526	50527	50531	50533	-
Fleece insulation RAL 9006		-	-	-	-	-	45004
In stock		✓	✓	✓	✓	✓	✓

Product description

- » **Material:** S235JR+N steel, internal enamelled, external primer coat
- » **Compressive strenght:** 10 bar
- » **Technical features:** double bare-tube heat exchanger from 300 Litres (equal tube length inside / outside, operating modes of heat exchanger pair: parallel mode / single mode / series mode), Magnesium protection anode 1¼" (from 800 Litres impressed current anode), Sensor clamping strip, Inspection flange 180 x 110 x LK 150
- » **Connections:** flat-sealing external threads
- » **Insulation:** removable 100 mm polyline fleece insulation including base and lid insulation
- » **Energy efficiency class "B"** until 500 Litres on request
- » **Accessories:** are on the pages from 84.



Condensing power plant



Oil heating plant



Gas plant



Pellet heating



Direct heating system



Heating pump

Special solutions such as the combination of various heat sources also allow for other applications.

Technical data

Storage type	HLS-Plus	150	200	301	401	501	801
Content	[Litres]	150	200	300	400	500	800
Energy efficiency class		C	C	C	C	C	C
Heat retaining loss (with insulation)	[Watt]	74	83	92	102	112	135
Diameter without insulation	[mm]	500	500	600	650	650	800
Diameter with insulation	[mm]	700	700	800	850	850	1000
Insulation	[mm]	100	100	100	100	100	100
Height with insulation	[mm]	1022	1285	1340	1610	1835	1872
Tilted height	[mm]	1000	1250	1380	1580	1800	1850
Heating surface	[m ²]	1,5	2,0	3,8 (2 x 1,9)	5 (2 x 2,5)	5 (2 x 2,5)	6,0 (2 x 3,0)
Water content WT	[Litres]	9,4	12,6	25 (2 x 12,5)	32 (2 x 16)	32 (2 x 16)	38 (2x19)
Flow rate WT	[m ³ /h]	1,7	2,3	3,6	3,8	4,0	4,0
Pressure loss WT Series / Parallel / Single	[mbar]	60	130	680/85/200	720/100/320	750/110/350	830/120/420
NL number* according to DIN 4708		2,8	5,1	19,2	27,3	35	37
Continuous output according to DIN 4708 (10°/80°/45°)	[l/h] (kW)	980 (39,9)	1350 (55,0)	2200 (89,6)	2500 (101,8)	2500 (101,8)	2500 (101,8)
max. T/ max. P - TW	[°C/bar]	95 / 10	95 / 10	95 / 10	95 / 10	95 / 10	95 / 10
max. T/ max. P - GWT-HZG**	[°C/bar]	160 / 25	160 / 25	160 / 25	160 / 25	160 / 25	160 / 25
Cold water/hot water AG (KW/WW)	[Inch]	G 1	G 1	G 1	G 1	G 1	G 1
Circulation AG (Z)	[Inch]	G ³ / ₄	G ³ / ₄	G ³ / ₄	G ³ / ₄	G ³ / ₄	G ³ / ₄
Heat exchanger AG (VI i,a)	[Inch]	G 1	G 1	G 1	G 1	G 1	G 1
Heat exchanger AG (RL i,a)	[Inch]	G 1	G 1	G 1	G 1	G 1	G 1
Electric heating		for all storage tanks: possible via inspection flange					
Nominal width of inspection flange (RFL)		DN 110	DN 110	DN 110	DN 110	DN 110	DN 110
Sensor/controller connections		Sensor clamping strip					
Thermometer connections		for all storage tanks: no					
Dimensions							
KW	[mm]	110	110	120	130	130	164
RL (i)	[mm]	180	180	218	227	227	261
RL (a)	[mm]	-	-	301	310	310	344
Z	[mm]	522	522	706	802	802	776
VL (a)	[mm]	-	-	829	940	940	914
VL (i)	[mm]	700	875	966	1151	1151	1051
WW	[mm]	836	1099	1196	1404	1630	1638
Weight	[kg]	78	97	158	212	227	370

Maintenance accessories	HLS-Plus	150	200	301	401	501	801
Anode	[€/item] Order number	34,- 05713	35,- 05714	42,- 04041	62,- 04042	70,- 04390	468,- 26054
Blind flange	[€/item] Order number	21,- 03683	21,- 03683	21,- 03683	21,- 03683	21,- 03683	21,- 03683
Flange seal	[€/item] Order number	13,- 03684	13,- 03684	13,- 03684	13,- 03684	13,- 03684	13,- 03684

* In order to achieve the specified NL number, the boiler output must be higher than the specified continuous output. ** Operating media for heat exchanger: water in liquid state only. Pay attention to the applicable DIN and DVGW specifications when connecting up the domestic water.