Overview

1. buffer tank

1.1 Buffer Tank, Without Heat Exchanger – JPSM 5–7
1.2 Buffer tank, with heat exchanger – JPSR 8–10
1.3 Buffer tank, with 2 heat exchangers – JPSRR 11–13
1.4 Buffer tank, without heat exchanger, with stratification charging system – JPSL 14–16
1.5 Buffer tank, with heat exchanger and stratification charging system – JPSLR 17–19
1.6 Buffer tank, with 2 heat exchangers and stratification charging system – JPSLRR 20–22
1.7 High-Performance Buffer Tank, for Apartment Units – JPSW 23–25
1.8 Multifunction tank, without heat exchanger – PFW 26–28
1.9 Multifunction tank, with heat exchanger – PFWR 29–31
1.10 Buffer tank, without heat exchanger, tall design – JPSH 32–34
1.11 Heat Pump Buffer Tank (permanently foam-insulated) – EWPS 35–37
1.12 Heat Pump Buffer Tanks (permanently foam-insulated), for wall mounting – EWPS WM 38–40
1.13 Cold Water Buffer Tanks – JKPS 41–43

2. Hygienic stratified combination storage tank

2.1 Hygienic stratified combination storage tank, without heat exchanger – EH 45–47
2.2 Hygienic stratified combination storage tank, with heat exchanger – EHS 48–50
2.3 Hygienic stratified combination storage tank, with 2 heat exchangers – EHSS 51–53
2.4 High-Performance Hygienic Stratified Combination Storage Tank – EHWP 54–56
2.5 High-Performance Hygienic Stratified Storage Tanks, with Heat Exchanger – EHSWP 57–59

3. combi tank

3.1 Combi tank, without heat exchanger, with flange – enameled – JHKE/F 61–63
3.2 Combi tank, with heat exchanger – enameled – JHKE 64–66
3.3 Combi tank, with 2 heat exchangers – enameled – JHKE/R2 67–69

4. Domestic hot water storage tank

4.1 Domestic hot water storage tank – ERSS 72-74
4.2 Performance Table for ERSS 75
4.3 Domestic Water Storage Tank – ERSS HR 76–78
4.4 Performance Table for ERSS HR 79
4.5 Service Water Storage Tank – ESRS 80–82
4.6 Performance Table for ESRS 83–84
4.7 Domestic Water Storage Tank – EHRE 85–87
4.8 Performance Table for EHRE 88

5. Large Enameled Storage Tanks

5.1 Large Enameled Storage Tanks – HRSS 89–91
5.2 Performance Table for HRSS 92
5.3 Enameled Large Storage Tanks – HSRS 93–95
5.4 Performance Table for HSRS 96

Overview

6. High-Performance Heat Pump Storage Tank

6.1 High-Performance Heat Pump Storage Tank, with double-coil heat exchanger – enameled – HDW ... 97–99
6.2 Performance Table for HDW ... 100
6.3 High-performance heat pump storage tank, with double-coil heat exchanger mounted on a buffer tank – HDWPU ... 101–103
6.4 Performance Table for HDWPU ... 104
6.5 High-performance heat pump storage tank, with 2 double-coil heat exchangers – enameled – HDWS ... 105–107
6.6 Performance Table for HDWS ... 108

7. Domestic water buffer tank

7.1 Domestic water buffer tank – enameled – HBPS ... 109–111

8. Hot Water Supply

8.1 Performance Table: Hot Water Supply for Residential Buildings ... 113

9. V4A Stainless Steel Storage Tank

9.1 V4A Stainless Steel Domestic Hot Water Buffer Tank – JEPS ... 115–117
9.2 V4A Stainless Steel Storage Tank – JEBS1 V2 ... 118–120
9.3 V4A Stainless Steel Storage Tank – JEBS2 V2 ... 121–123

10. Accessories

10.1 Fresh Hot Water Station ... 125
10.2 Performance Charts – JFWS S+M HE ... 126
10.3 Performance Chart – JFWS L HE ... 127
10.4 Screw-in Heater ... 128
10.5 Flange-mounted heater for steel and stainless steel storage tanks ... 129
10.6 Buffer Tank Transfer Kit ... 130
10.7 Neodul® Insulation – Benefits ... 131
10.8 Ecoline Vlies Insulation ... 132
10.9 Circulation Lance for Hygienic Tanks ... 133
10.10 Sensor Core Tube ... 134

11. custom tank

11.1 Our sample sizes ... 136
11.2 Internal components ... 137
11.3 Special Highlights 2024 ... 138

12. Juratherm Reparco®

12.1 Solar Power Control Systems ... 139
12.2 The Value-Added Solution ... 140
12.3 Sizes and Variants ... 141
12.4 Variants of the Dynamica Storage System ... 142

13. Diagrams

13.1 Installation Schematics ... 143–148

1.1 Buffer Tank, without Heat Exchanger

JPSM 300–5000*



Design:	Buffer tank with stratification baffles made of S235JR high-quality steel per EN 10025 Operating pressure: 4.5 bar / Test pressure 6 bar (up to 1,000 liters) Max. operating temperature 95 °C
	Unfinished interior, exterior with anti-corrosion coating All system connections (1 ½" or, for Type 2500 and larger, 2") are equipped with stratification baffles, which ensures optimized stratification. These can be bent out of the way if necessary, such as when installing electric heaters or diffusers.
Design:	The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers. Starting with Type 2500, two 2" mitered pipes are installed vertically up into the Klöpper head, allowing for optimal use of the upper area.
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Neodul®insulation with a silver surface Insulation must always be ordered separately; other insulation types available upon request
Additionally:	Flanges or sockets and other tank sizes available upon request; price and delivery time upon request

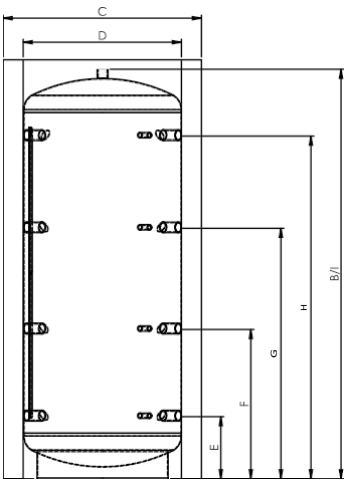
* The model designation does not directly indicate the exact net capacity of the tank.

1.1 Buffer tank, without heat exchanger

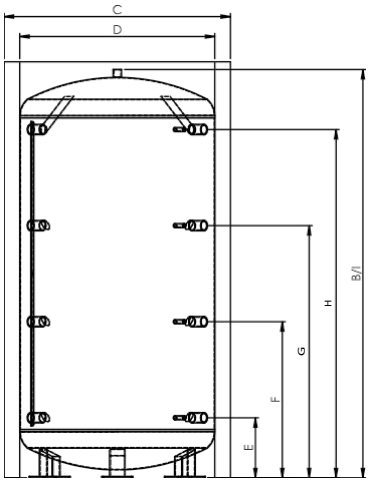
JPSM 300–5000

JPSM	Unit	300	500	600	825	825B	1000	1000B	1100	1250	1500	2000	2,500	3,000	4,000	5,000
Net volume	l	279	480	560	718	815	887	995	1,103	1268	1501	2010	2,473	2,890	3,710	5,012
Ø without insulation	mm	550	650	700	790	850	790	850	850	950	1000	1100	1250	1250	1,400	1,600
Height without insulation	mm	1350	1630	1,650	1690	1,680	2040	2010	2170	2010	2150	2370	2280	2,620	2,680	2850
tilt height	mm	1385	1665	1690	1,740	1765	2085	2055	2215	2070	2195	2420	2395	2,660	2,740	2910
Heating operating pressure	bar	4.5	4.5	4.5	4.5	3.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Max. operating temperature	°C	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Weight	kg	55	74	80	92	101	106	111	155	155	165	198	236	282	361	428
Item No.		110 300	110 500	110 600	110 825	110 825B	110 1000	110 1000B	110 1100	110 1,250	110 1,500	110 2,000	110 2,500	110 3,000	110 4,000	110 5,000
insulation		Polyester fiber fleece														
	mm	100				130	100	130								
Diameter with insulation	mm	750	850	900	990	1110	990	1110	1110	1210	1260	1360	1510	1510	1660	1860
Height with insulation	mm	1,400	1,680	1,700	1,740	1,780	2090	2110	2270	2110	2250	2470	2380	2720	2780	2950
Weight	kg	9	11	12	14	15	16	17	18	19	21	25	28	33	38	44
Item No.		997 300	997 500	997 600	997 825	997 8253	997 1,000	997 10003	997 1100	997 1250	997 1500	997 2000	997 2,500	997 3,000	997 4,000	997 5,000
ErP Class		C	C	C	C	C	C	C	C	C	C	C	No start	No start	No start	No start
ErP Heat Loss	W	83	106	118	127	130	141	130	137	130	132	164	No start	No start	No start	No start
insulation		Neodul® Insulation														
	mm	100		130								140				
Diameter with insulation	mm	750	850	960	1050	1110	1050	1110	1110	1210	1260	1380				
Height with insulation	mm	1450	1730	1750	1790	1,780	2140	2110	2270	2110	2250	2520				
Weight	kg	10	12	14	16	16	18	18	19	20	23	25				
Item No.		9720 300	9720 500	9720 600	9720 825	9720 8253	9720 1000	9720 10003	9720 1100	9720 1250	9720 1500	9,720 2000				
ErP Class		B	B	B	B	B	B	B	B	B	B	B				
ErP Heat Loss	W	64	72	68	83	89	98	100	105	107	122	113				
ErP-relevant content	l	279	480	560	718	815	887	995	1,103	1268	1501	2010				

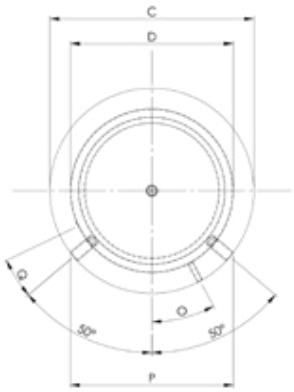
1.1 Buffer tank, without heat exchanger—
Dimension sheet JPSM 300–5000



JPSM 300–2000



JPSM 2500–5000



	Usage	Dimension	300	500	600	825	825B	1000	1000B	1100	1250	1500	2000	2,500	3,000	4,000	5,000
P	Insertion dimension, socket length 100 mm	mm	610	690	740	800	(see Ø)	800	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)
B	Height	without insulation - mm	1350	1630	1650	1690	1680	2040	2010	2170	2010	2,150	2,370	2,280	2,620	2,680	2,850
D	Diameter	without insulation - mm	550	650	700	790	850	790	850	850	950	1000	1100	1250	1250	1,400	1,600
E	Connection 1	Height - mm	220	220	230	260	260	310	310	285	310	380	320	385	385	415	510
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
F	Connection 2	Height - mm	470	620	610	630	630	745	745	812	745	825	900	888	1002	1032	1077
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
G	Connection 3	Height - mm	800	1010	990	1030	1030	1250	1250	1,338	1250	1350	1490	1392	1618	1648	1693
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
H	Connection 4	Height - mm	1120	1390	1380	1430	1430	1710	1710	1865	1710	1760	2020	1895	2235	2250	2310
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
I	connection top	Height - mm	1350	1630	1650	1690	1680	2040	2010	2170	2010	2,150	2,370	2,280	2,620	2,680	2,850
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
O	Arrangement of VL and RL Sensors	°	18.5	23.5	28.0	28.0	25.8	28.0	29.8	29.8	32.0	33.0	34.5	36.3	36.3	37.7	39.3
Q	Position of sensor terminal block	°	20.8	17.6	16.4	14.5	13.5	14.5	13.5	13.5	12.1	11.5	10	10	10	10	10

s.Ø = see diameter without insulation

1.2 Buffer tank with heat exchanger JPSR 300–5000*



Design:	Buffer tank with 1 smooth-tube heat exchanger and stratification baffles made of S235JR high-quality steel per EN 10025 Operating pressure: 4.5 bar / Test pressure 6 bar (up to 1,000 liters) Max. operating temperature 95 °C
	Raw interior, exterior with anti-corrosion coating All system connections (1 ½" or, for Type 2500 and larger, 2") are equipped with stratification baffles, This ensures optimized layering. These can be bent out of the way if necessary, such as when installing electric heaters or diffusers (possible only with H&G connections[1]).
Design:	The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers. Starting with Type 2500, two 2" mitered pipes are installed vertically upward into the Klöpper bottom, allowing for optimal use of the upper area.
insulation:	Polyester fiber fleece with Sky jacket Silver available from stock / White can be produced (2–3 business days) Neodul®insulation with a silver surface Insulation must always be ordered separately; other insulation types available upon request
heat exchanger:	Permanently welded smooth-tube coil made of steel tubing (operating pressure 6 bar)
Additionally:	Flanges or sockets and other tank sizes available upon request. Price and delivery time upon request

* The model designation does not directly indicate the exact net capacity of the tank.

[1] For the **JPSR 500** model, only connection “H” can be equipped with an electric heater.

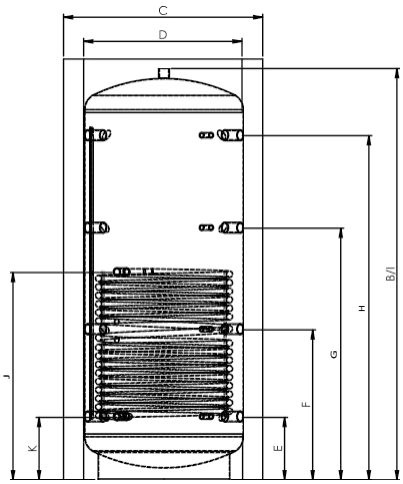
1.2 Buffer tank with heat exchanger JPSR

300–5000

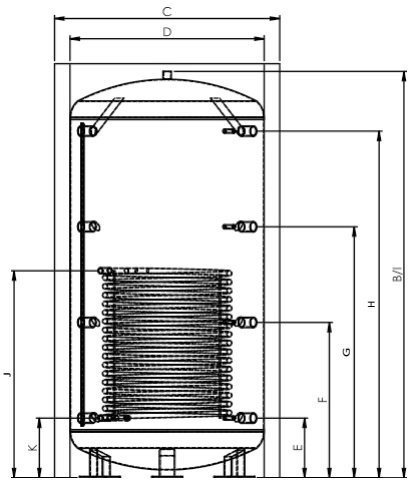
JPSR	Unit	300	500	600	825	825B	1000	1000B	1100	1250	1500	2,000	2,500	3,000	4,000	5,000
Net volume	l	270	461	545	694	795	861	971	1,082	1,246	1,476	1981	2,444	2861	3,672	4,969
Ø without insulation	mm	550	650	700	790	850	790	850	850	950	1000	1100	1250	1250	1,400	1,600
Height without insulation	mm	1350	1,630	1,650	1,690	1,680	2040	2010	2170	2010	2150	2370	2280	2,620	2,680	2850
tilt height	mm	1385	1665	1,690	1,740	1765	2085	2055	2215	2070	2195	2420	2395	2,660	2,740	2910
Heating operating pressure	bar	4.5	4.5	4.5	4.5	3.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Operating pressure for the heat exchanger WT	bar	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
Weight	kg	77	113	125	138	142	157	167	202	204	222	264	303	350	446	523
Item No.		111 300	111 500	111 600	111 825	111 825B	111 1,000	111 1000B	111 1100	111 1250	111 1,500	111 2000	111 2,500	111 3,000	111 4,000	111 5,000
insulation		Polyester fiber fleece														
	mm	100				130	100	130								
Diameter with insulation	mm	750	850	900	990	1110	990	1110	1110	1210	1260	1360	1510	1510	1660	1860
Height with insulation	mm	1,400	1,680	1,700	1,740	1,780	2090	2110	2270	2110	2250	2470	2380	2720	2780	2950
Weight	kg	9	11	12	14	15	16	17	18	19	21	25	28	33	38	44
Item No.		997 300	997 500	997 600	997 825	997 825B	997 1000	997 1000B	997 1100	997 1250	997 1500	997 2000	997 2,500	997 3,000	997 4,000	997 5,000
ErP Class		C	C	C	C	C	C	C	C	C	C	C	No start	No start	No start	No start
ErP Heat Loss	W	83	106	118	127	130	141	130	137	130	132	164	No start	No start	No start	No start
insulation		Neodul®Insulation														
	mm	100		130								140				
Diameter with insulation	mm	750	850	960	1050	1110	1050	1110	1110	1210	1260	1380				
Height with insulation	mm	1450	1,730	1750	1790	1,780	2140	2110	2270	2110	2250	2520				
Weight	kg	10	12	14	16	16	18	18	19	20	23	25				
Item No.		9720 300	9720 500	9720 600	9720 825	9720 825B	9720 1000	9720 1000B	9720 1100	9720 1250	9720 1500	9,720 2000				
ErP Class		B	B	B	B	B	B	B	B	B	B	B				
ErP Heat Loss	W	64	72	68	83	89	98	100	105	107	122	113				
ErP-relevant content	l	279	480	560	718	815	887	995	1,103	1268	1501	2010				

JPSR	Unit	300	500	600	825	825B	1000	1000B	1100	1250	1500	2000	2,500	3,000	4,000	5,000
Register at the bottom	m²	1.2	2.3	1.8	2.8	2.8	3.1	3.1	3.1	3.1	3.6	4.2	4.2	4.2	5.4	6.1
Table of Contents at the bottom	l	7.9	15.1	11.8	18.3	18.4	20.3	20.3	20.3	20.3	23.6	27.5	27.5	27.5	35.3	39.9
Pressure drop in heat exchanger	mbar	24	127	74	248	248	274	274	274	274	318	372	372	372	478	540

1.2 Buffer Tank with Heat Exchanger—
Specification Sheet JPSR 300–5000



JPSR 300–2000



JPSR 2500–5000



	Usage	Dimension	300	500	600	825	825B	1000	1000B	1100	1250	1500	2000	2,500	3,000	4,000	5,000
P	Insertion dimension, socket length 100 mm	mm	610	690	740	800	(see Ø)	800	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)
B	Height	without insulation - mm	1350	1630	1650	1690	1680	2040	2010	2070	2010	2150	2370	2280	2,620	2,680	2,850
D	Diameter	without insulation - mm	550	650	700	790	850	790	850	850	950	1000	1100	1250	1250	1,400	1,600
E	Connection 1	Height - mm	220	220	230	260	260	310	310	285	310	380	320	385	385	415	510
		Connection - Female Thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
F	Connection 2	Height - mm	470	620	610	630	630	745	745	812	745	825	900	888	1002	1032	1077
		Connection - Female Thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
G	Connection 3	Height - mm	800	1010	990	1030	1030	1250	1250	1,338	1250	1350	1490	1392	1618	1648	1693
		Connection - Female Thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
H	Connection 4	Height - mm	1120	1390	1380	1430	1430	1710	1710	1710	1710	1760	2020	1895	2235	2250	2310
		Connection - Female Thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
I	Top connection	Height - mm	1340	1630	1650	1690	1680	2040	2010	2170	2010	2150	2370	2280	2,620	2,680	2,850
		Connection - Female Thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
J	Flow Register	Height - mm	660	1120	790	930	930	1030	1030	930	1015	1180	1120	1100	1,335	1465	1510
		Ø - mm	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
K	RL Register	Height - mm	220	220	250	260	260	310	310	360	300	380	320	385	385	415	510
		Ø - mm	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
O	Arrangement of flow and return register sensors	°	18.5	23.5	28.0	28.0	29.8	28.0	29.8	29.8	32.0	33.0	34.5	36.3	36.3	37.7	39.3
Q	Position of sensor terminal block	°	20.8	17.6	16.4	14.5	13.5	14.5	13.5	13.5	12.1	11.5	10	10	10	10	10

s.Ø = see diameter without insulation

1.3 Buffer tank, with 2 heat exchangers

JPSRR 500–5000*



Design:	Buffer tank with 2 smooth-tube heat exchangers, stratification baffles, and stratification separation plate made of S235JR high-quality steel per EN 10025 Operating pressure: 4.5 bar / Test pressure 6 bar (up to 1,000 liters) Max. operating temperature 95 °C
Design:	Unfinished interior, exterior with anti-corrosion coating All system connections (1 ½" or, for Type 2500 and larger, 2") are equipped with stratification baffles, which ensure optimized stratification. **Installation of an electric heater or a diffuser is not possible with this storage tank series.** The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers. Starting with Type 2500, two 2" mitered pipes are installed vertically upward into the Klöpper bottom, allowing for optimal use of the upper area.
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Neodul®insulation with a silver surface Insulation must always be ordered separately; other insulation types available upon request
heat exchanger:	two permanently welded smooth-tube coils made of steel tubing (operating pressure 6 bar)
Additionally:	Flanges or sockets and other tank sizes available upon request. Price and delivery time upon request

* The model designation does not directly indicate the exact net capacity of the tank.

1.3 Buffer tank, with 2 heat exchangers

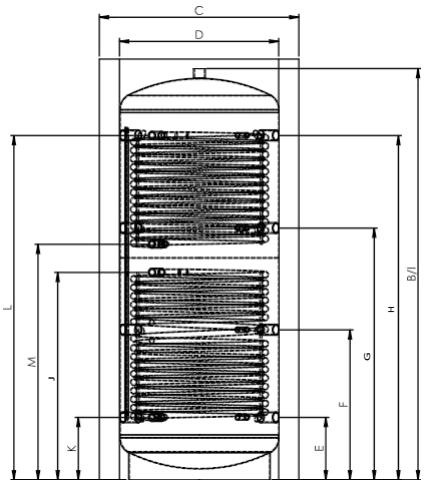
JPSRR 500–5,000

JPSRR	Unit	500	600	825	825B	1000	1000B	1250	1500	2000	2,500	3,000	4,000	5,000
Net volume	l	431	521	680	762	841	932	1,220	1,449	1960	2,418	2,835	3,646	4,943
Ø without insulation	mm	650	700	790	850	790	850	950	1000	1,100	1250	1250	1,400	1,600
Height without insulation	mm	1630	1650	1690	1680	2040	2010	2010	2150	2370	2280	2,620	2,680	2850
tilt height	mm	1665	1690	1740	1765	2085	2055	2070	2195	2420	2395	2,660	2,740	2910
Heating operating pressure	bar	4.5	4.5	4.5	3.0	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Operating pressure WT	bar	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95	95	95	95	95	95	95	95	95	95	95
Weight	kg	134	141	165	172	196	205	242	262	312	343	401	461	563
Item No.		121 500	121 600	121 825	121 825B	121 1,000	121 1000B	121 1250	121 1500	121 2000	121 2,500	121 3,000	121 4,000	121 5,000
insulation		Polyester fiber fleece												
	mm	100			130	100	130							
Diameter with insulation	mm	850	900	990	1110	990	1110	1210	1260	1360	1510	1510	1660	1860
Height with insulation	mm	1680	1700	1740	1,780	2090	2110	2110	2250	2,470	2380	2720	2780	2950
Weight	kg	11	12	14	15	16	17	19	21	25	28	33	38	44
Item No.		997 500	997 600	997 825	997 825B	997 1000	997 1000B	997 1250	997 1500	997 2000	997 2,500	997 3,000	997 4,000	997 5,000
ErP Class		C	C	C	C	C	C	C	C	C	No start	No start	No start	No start
ErP Heat Loss	W	106	118	127	130	141	130	130	132	164	No start	No start	No start	No start
insulation		Neodul®Insulation												
	mm	100	130							140				
Diameter with insulation	mm	850	960	1050	1110	1050	1110	1210	1260	1380				
Height with insulation	mm	1730	1,750	1790	1,780	2140	2110	2110	2250	2,520				
Weight	kg	12	14	16	16	18	18	20	23	25				
Item No.		9720 500	9720 600	9720 825	9720 825B	9720 1000	9720 1000B	9720 1250	9720 1500	9720 2000				
ErP Class		B	B	B	B	B	B	B	B	B				
ErP Heat Loss	W	72	68	83	89	98	100	107	122	113				
ErP-relevant content	l	480	560	718	815	887	995	1,268	1501	2010				

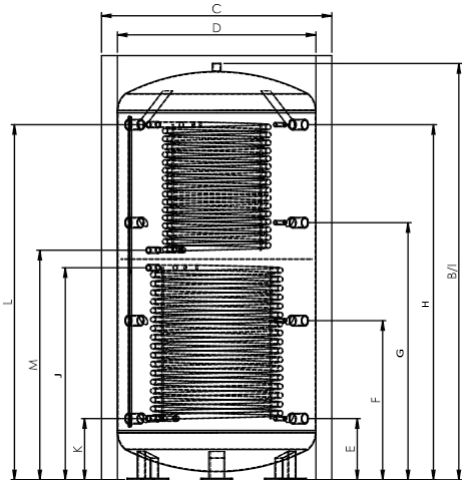
JPSRR	Unit	500	600	825	825B	1000	1000B	1250	1500	2000	2,500	3,000	4,000	5,000
Index at the top	m²	1.2	1.2	1.8	1.8	2.4	2.4	2.4	2.6	3.1	2.6	3.3	3.6	3.6
Table of Contents at the top	l	7.9	7.9	11.8	1.8	15.7	15.7	15.7	17.0	20.3	17.0	21.6	21.6	21.6
Pressure drop across the upper heat exchanger	mbar	24	24	74	74	132	132	132	230	274	230	292	318	318
Bottom-mounted	m²	1.8	1.8	2.8	2.8	3.1	3.1	3.1	3.6	4.2	4.2	4.2	5.0	6.0
Table of Contents at the bottom	l	11.8	11.8	18.3	18.4	20.3	20.3	20.3	23.6	27.5	27.5	27.5	32.8	39.3
Pressure drop in lower heat exchanger	mbar	74	74	248	248	274	274	274	318	372	372	372	442	531

1.3 Buffer tank with 2 heat exchangers

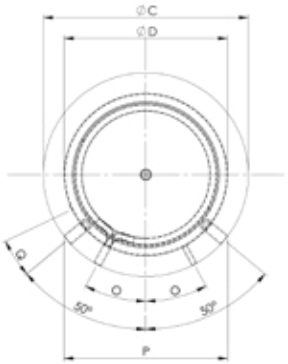
Dimension Sheet JPSRR 500–5000



JPSRR 500–2000



JPSRR 2500–5000

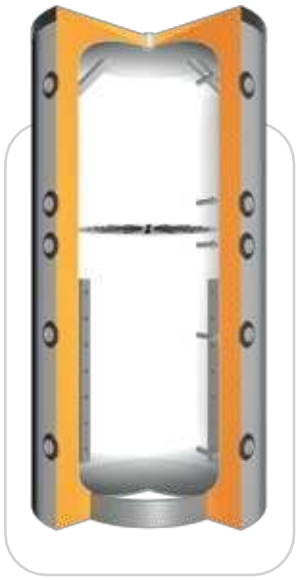


	Application	Dimensions	500	600	825	825B	1000	1000B	1250	1500	2000	2,500	3,000	4,000	5,000
P	Insertion dimension, socket length 100 mm	mm	690	740	800	(see Ø)	800	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)	(see Ø)
B	Height	without insulation - mm	1630	1650	1690	1680	2040	2010	2010	2150	2370	2280	2,620	2,680	2,770
D	Diameter	without insulation - mm	650	700	790	850	790	850	950	1000	1,100	1250	1250	1,400	1,600
E	Connection 1	Height - mm	220	230	260	260	310	310	310	380	320	385	385	415	510
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
F	Connection 2	Height - mm	620	610	630	630	745	745	745	825	900	888	1002	1032	1077
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
G	Connection 3	Height - mm	1010	990	1030	1030	1250	1250	1250	1350	1,490	1392	1618	1648	1693
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
H	Connection 4	Height - mm	1390	1380	1430	1430	1710	1710	1710	1760	2020	1895	2235	2250	2310
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"	2"	2"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
I	Top connection	Height - mm	1630	1650	1690	1680	2040	2010	2010	2150	2370	2280	2,620	2,680	2850
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
J	Flow Bottom Register	Height - mm	660	670	930	930	1030	1030	1015	1180	1120	1,100	1,335	1465	1510
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
K	RL Bottom Register	Height - mm	220	230	260	260	310	310	300	380	320	385	385	415	510
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
L	flow Top Register	Height - mm	1390	1380	1430	1430	1710	1710	1695	1760	2020	1895	2235	2250	2310
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
M	RL Top Register	Height - mm	950	940	1070	1070	1170	1170	1155	1260	1360	1455	1445	1730	1650
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
O	Arrangement of VL and RL Register Sensors	°	28.0	28.0	28.0	29.8	28.0	29.8	32.0	33.0	34.5	36.3	36.3	37.7	39.3

Q	Position of Sensor Terminal Strip	°	17.6	16.4	14.5	13.5	14.5	13.5	12.1	11.5	10	10	10	10	10

s.Ø = see diameter without insulation

1.4 Buffer Tank, without heat exchanger, with JPSL 500–2000* stratification charging system – Version 2.0



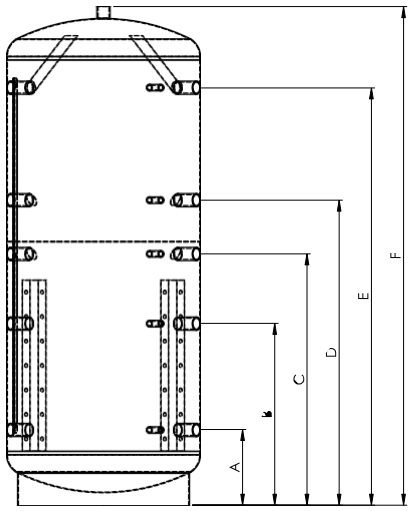
Design:	Buffer tank with diffusers, baffle plate, and curved pipes made of S235JR high-quality steel in accordance with DIN 4753 Operating pressure: 4.5 bar / Test pressure 6 bar (up to 1,000 liters) Max. operating temperature 95 °C
Design:	Raw interior, exterior with anti-corrosion coating The system connections—1 ½" or, for Type 1500 and larger, 2" at levels C and D—are equipped with stratification baffles, which ensure optimized stratification. These can be bent out of the way if necessary, such as when installing electric heaters or diffusers. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 5 ½" sockets for sensors/thermometers. Note: The tank cannot be connected in a communicating configuration (mitered pipes pointing upward).
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Neodul©insulation with a silver surface Insulation must always be ordered separately; other types of insulation available upon request
Additionally:	Flanges or sockets and other tank sizes available upon request; price and delivery time upon request
Recommendation:	When using a heat pump, use 2 diffuser charging tubes. Insert these into connections C and D, making sure the diffuser opening faces down or up. (Part number: 90609). For Types 1500 and 2000, 2" diffuser charging tubes are required (item number: 90611).

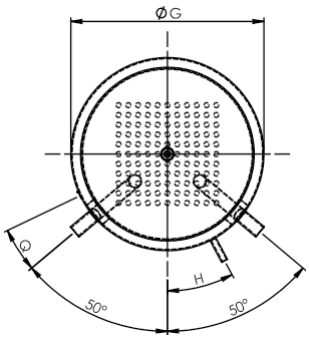
* The model designation does not directly indicate the exact net capacity of the tank.

1.4 Buffer Tank, without heat exchanger, with JPSL 500–2000 stratification charging system – Version 2.0

JPSL	Unit	500	600	825	1,000	1,500	2,000
Net volume	l	480	560	716	885	1,498	2010
Ø without insulation	mm	650	700	790	790	1,000	1100
Height without insulation	mm	1630	1,650	1690	2040	2150	2370
tilt height	mm	1665	1690	1740	2085	2195	2420
Heating operating pressure	bar	4.5	4.5	4.5	4.5	3.0	3.0
Max. operating temperature	°C	95	95	95	95	95	95
Weight	kg	85	109	128	148	204	198
Item No.		156500	156600	156825	1561000	1561500	1562000
insulation		Polyester fiber fleece					
	mm	100				130	
Ø with insulation	mm	850	900	990	990	1260	1,360
Height with insulation	mm	1680	1,700	1740	2090	2,250	2,470
Weight	kg	11	12	14	16	21	25
Item No.		997500	997600	997825	9971000	9971500	9972000
ErP Class		C	C	C	C	C	C
ErP Heat Loss	W	106	118	127	141	132	164
insulation		Neodul®Insulation					
	mm	100	130				140
Ø with insulation	mm	850	960	1050	1050	1260	1,380
Height with insulation	mm	1730	1,750	1790	2140	2,250	2,520
Weight	kg	12	14	16	18	23	25
Item No.		9720500	9720600	9720825	97201000	97201500	97202000
ErP Class		B	B	B	B	B	B
ErP Heat Loss	W	72	68	83	98	122	113
ErP-relevant content	l	480	560	718	887	1501	2010

1.4 Buffer tank, without heat exchanger, with stratification charging system Data Sheet JPSL 500–2000 – Version 2.0





	Application	Dimensions	500	600	825	1000	1,500	2,000
	Insertion dimension for 100 mm socket length	mm	690	720	800	800	(see Ø)	(see Ø)
F	Height	without insulation - mm	1630	1650	1690	2040	2150	2370
G	Diameter	without insulation - mm	650	700	790	790	1000	1,100
A	Connection 1	Height - mm	220	230	260	310	380	320
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"	½"
B	Connection 2	Height - mm	620	620	630	745	825	900
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"	½"
C	Connection 3	Height - mm	760	850	930	1030	1180	1240
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"	½"
D	Connection 4	Height - mm	1010	1000	1030	1250	1350	1490
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"	½"
E	Connection 5	Height - mm	1390	1380	1430	1710	1760	2020
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"	½"
F	Top connection	Height - mm	1630	1650	1690	2040	2150	2370
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
H	Probe Arrangement	°	23.5	26.0	28.0	28.0	33.0	34.5
Q	Position of sensor terminal strip	°	17.6	15.0	14.5	14.5	11.5	10

s.Ø = see diameter without insulation

1.5 Buffer tank, with heat exchanger and stratification charging system JPSLR 500–2000*– Version 2.0



Type:	Buffer tank with diffusers, baffle plate, and curved pipes + 1 x heat exchanger made of S235JR high-quality steel per DIN 4753 Operating pressure: 4.5 bar / Test pressure 6 bar (up to 1,000 liters) Max. operating temperature 95 °C
Design:	Raw interior, exterior with anti-corrosion coating The system connections—1 ½" or, for Type 1500 and larger, 2" at height C—are equipped with stratification baffles, which ensure optimized stratification. These can be bent out of the way if necessary, such as when installing electric heaters or diffusers. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 5 ½" sockets for sensors/thermometers. Note: The tank cannot be connected in a communicating configuration (mitered pipes pointing upward).
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Neodul®insulation with a silver surface Insulation must always be ordered separately; other types of insulation are available upon request
heat exchanger:	a permanently welded steel tube coil (operating pressure 6 bar)
Additionally:	Flanges or sockets and other tank sizes available upon request; price and delivery time upon request
Recommendation:	When using a heat pump, use 1 diffuser charging tube. Insert it into connection D and make sure the diffuser opening faces down or up. (Part number: 90609). For Types 1500 and 2000, 2" diffuser charging pipes are required (item number: 90611).

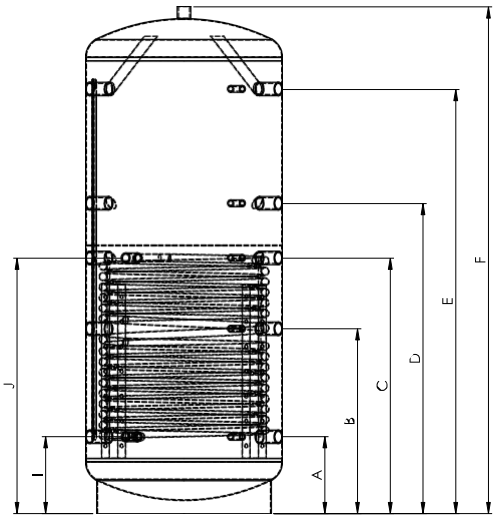
* The model designation does not directly indicate the exact net capacity of the tank.

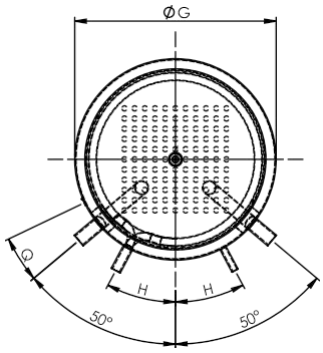
1.5 Buffer Tank with Heat Exchanger and Stratification Charging System JPSLR 500–2000 – Version 2.0

JPSLR	Unit	500	825	1000	1,500	2000
Net volume	l	461	696	863	1,473	1981
Ø without insulation	mm	650	790	790	1000	1100
Height without insulation	mm	1630	1,690	2040	2150	2370
tilt height	mm	1665	1740	2085	2195	2,420
Heating operating pressure	bar	4.5	4.5	4.5	3.0	3.0
Operating pressure for the heat exchanger WT	bar	6.0	6.0	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95	95	95
Weight	kg	130	174	198	233	264
Item No.		157500	157825	1571000	1571500	1572000
insulation		Polyester fiber fleece				
	mm	100			130	
Ø with insulation	mm	850	990	990	1260	1360
Height with insulation	mm	1680	1740	2090	2250	2,470
Weight	kg	11	14	16	21	25
Item No.		997500	997825	9971000	9971500	9972000
ErP Class		C	C	C	C	C
ErP Heat Loss	W	106	127	141	132	164
insulation		Neodul® Insulation				
	mm	100	130			140
Ø with insulation	mm	850	1050	1050	1260	1380
Height with insulation	mm	1730	1,790	2140	2250	2520
Weight	kg	12	16	18	23	25
Item No.		9720500	9720825	97201000	97201500	97202000
ErP Class		B	B	B	B	B
ErP Heat Loss	W	72	83	98	122	113
ErP-relevant content	l	480	718	887	1,501	2010

JPSLR	Unit	500	825	1,000	1,500	2000
Register at the bottom	m²	1.8	2.8	3.1	3.6	4.2
Table of Contents at the bottom	l	11.8	19.6	21.7	25.2	27.5
Pressure drop in heat exchanger	mbar	74	248	274	318	372

1.5 Buffer Tank with Heat Exchanger and Stratification Charging System Data Sheet JPSLR 500–2000 – Version 2.0





	Application	Dimensions	500	825	1000	1500	2000
	Insertion depth for 100 mm socket length	mm	690	800	800	(nominal diameter)	(nominal diameter)
F	Height	without insulation - mm	1630	1690	2040	2150	2370
G	Diameter	without insulation - mm	650	790	790	1000	1100
A	Connection 1	Height - mm	220	260	310	380	320
		Connection - female thread	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"
B	Connection 2	Height - mm	620	630	745	825	900
		Connection - female thread	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"
C	Connection 3	Height - mm	760	930	1030	1180	1240
		Connection - female thread	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"
D	Connection 4	Height - mm	1010	1030	1250	1350	1490
		Connection - female thread	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"
E	Connection 5	Height - mm	1390	1430	1710	1760	2020
		Connection - female thread	1 ½"	1 ½"	1 ½"	2"	2"
		Probe - Female Thread	½"	½"	½"	½"	½"
F	Top connection	Height - mm	1630	1690	2040	2150	2370
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
J	Flow Register	Height - mm	660	930	1030	1180	1120
		Connection - female thread	1"	1"	1"	1"	1"
I	RL Register	Height - mm	220	260	310	380	320
		Connection - female thread	1"	1"	1"	1"	1"
H	Arrangement Sensor, register	°	23.5	28.0	28.0	33.0	34.5
Q	Position of sensor terminal strip	°	17.6	14.5	14.5	11.5	10

s.Ø = see diameter without insulation

1.6 Buffer tank, with 2 heat exchangers and stratification charging system JPSLRR 825 - 2000* – Version 2.0



Type:	Buffer tank with diffusers, baffle plate, and curved pipes + 2 x heat exchangers made of S235JR high-quality steel per DIN 4753 Operating pressure: 4.5 bar / Test pressure 6 bar (up to 1,000 liters) Max. operating temperature 95 °C
Design:	Uncoated interior, exterior with anti-corrosion coating The system connections—1½" or, starting with Type 1500, 2" at height C—are equipped with stratification baffles, which ensure optimized stratification. **Installation of an electric heater or a diffuser is not possible with this storage tank series.** The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 5 ½" sockets for sensors/thermometers. Note: The tank cannot be connected in a communicating configuration (mitered pipes pointing upward).
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Neodul® Insulation with a silver surface Insulation must always be ordered separately; other types of insulation are available upon request
heat exchanger:	Two permanently welded steel tube coils (operating pressure 6 bar)
Additionally:	Flanges or sockets and other tank sizes available upon request. Price and delivery time upon request

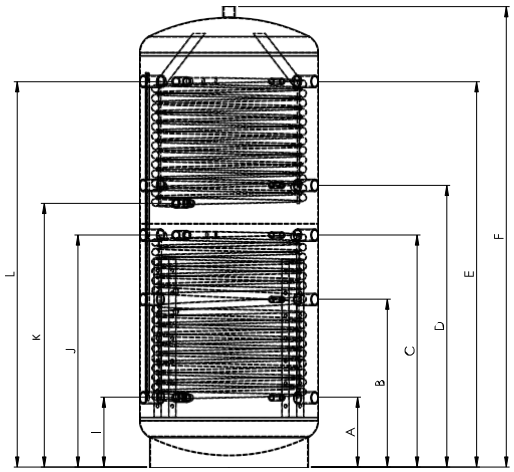
* The model designation does not directly indicate the exact net capacity of the tank.

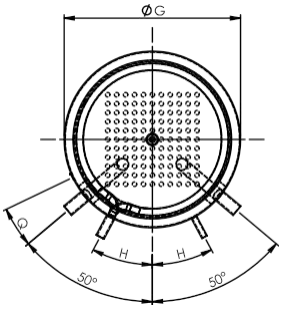
1.6 Buffer tank, with 2 heat exchangers and stratification charging system JPSLRR 825–2000 – Version 2.0

JPSLRR	Unit	825	1000	1500	2000
Net volume	l	684	847	1,455	1960
Ø without insulation	mm	790	790	1000	1100
Height without insulation	mm	1690	2040	2150	2370
tilt height	mm	1740	2085	2195	2420
Heating operating pressure	bar	4.5	4.5	3.0	3.0
Operating pressure WT	bar	6.0	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95	95
Weight	kg	206	241	273	312
Item No.		158825	1581000	1581500	1582000
insulation		Polyester fiber fleece			
	mm	100		130	
Ø with insulation	mm	990	990	1260	1360
Height with insulation	mm	1740	2090	2,250	2,470
Weight	kg	14	16	21	25
Item No.		997825	9971000	9971500	9972000
ErP Class		C	C	C	C
ErP Heat Loss	W	127	141	132	164
insulation		Neodul® Insulation			
	mm	130			140
Ø with insulation	mm	1050	1050	1260	1380
Height with insulation	mm	1790	2140	2,250	2520
Weight	kg	16	18	23	25
Item No.		9720825	97201000	97201500	97202000
ErP Class		B	B	B	B
ErP Heat Loss	W	83	98	122	113
ErP-relevant content	l	718	887	1,501	2010

JPSLRR	Unit	825	1,000	1,500	2000
Top register	m²	1.8	2.4	2.6	3.1
Table of Contents (top)	l	11.8	15.7	18.2	20.3
Pressure drop across the upper heat exchanger	mbar	74	132	230	274
Bottom-mounted	m²	2.8	3.1	3.6	4.2
Table of Contents at the bottom	l	19.6	21.7	25.2	27.5
Pressure drop across the lower heat exchanger	mbar	248	274	318	372

1.6 Buffer tank with 2 heat exchangers and stratification charging system Data Sheet JPSLRR 825 - 2000 – Version 2.0





	Application	Dimensions	825	1000	1500	2000
	Insertion dimension, sleeve length 100 mm	mm	800	800	(see Ø)	(see Ø)
F	Height	without insulation - mm	1690	2040	2150	2370
G	Diameter	without insulation - mm	790	790	1000	1100
A	Connection 1	Height - mm	260	310	380	320
		Connection - female thread	1 ½"	1 ½"	2"	2"
		Probe - IG	½"	½"	½"	½"
B	Connection 2	Height - mm	630	745	825	900
		Connection - female thread	1 ½"	1 ½"	2"	2"
		Probe - IG	½"	½"	½"	½"
C	Connection 3	Height - mm	930	1030	1180	1240
		Connection - female thread	1 ½"	1 ½"	2"	2"
		Probe - IG	½"	½"	½"	½"
D	Connection 4	Height - mm	1030	1250	1350	1490
		Connection - female thread	1 ½"	1 ½"	2"	2"
		Probe - IG	½"	½"	½"	½"
E	Connection 5	Height - mm	1430	1710	1760	2020
		Connection - female thread	1 ½"	1 ½"	2"	2"
		Probe - IG	½"	½"	½"	½"
F	Top connection	Height - mm	1690	2040	2150	2370
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
J	Flow Bottom Register	Height - mm	930	1030	1180	1120
		Connection - female thread	1"	1"	1"	1"
I	RL Bottom Register	Height - mm	260	310	380	320
		Connection - female thread	1"	1"	1"	1"
L	flow Register Top	Height - mm	1430	1710	1760	2020
		Connection - female thread	1"	1"	1"	1"
K	RL Top Register	Height - mm	1070	1170	1260	1360
		Connection - female thread	1"	1"	1"	1"
H	Arrangement Sensor, register	°	28.0	28.0	33.0	34.5
Q	Position of sensor terminal strip	°	14.5	14.5	11.5	10

s.Ø = see diameter without insulation

1.7 High-performance buffer tank, for residential stations JPSW 500 G10 – 2000 G5*



Design:	Buffer tank with curved pipes and sensor core pipe made of S235JR high-quality steel per DIN 4753 Operating pressure: 4.5 bar / Test pressure: 6 bar max. Operating temperature: 95 °C
Design:	Raw interior, exterior with anti-corrosion coating The 2" system connections at points E and A are fitted with mitered pipes, which ensures optimized stratification. These **cannot** be bent out of position. The tank is equipped with a sensor core tube for variable positioning of contact sensors (internal diameter 16 mm). Additional 1½" electrical socket provided. Note: The tank cannot be connected in a communicating configuration (mitered pipes pointing upward).
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Insulation must always be ordered separately; other insulation types available upon request
Additional:	Flanges or sockets and other tank sizes available upon request. Price and delivery time upon request

* The model designation does not directly indicate the exact net capacity of the tank.

1.7 High-Performance Buffer Tanks for Residential Units JPSW 500 G10 – 2000 G5*

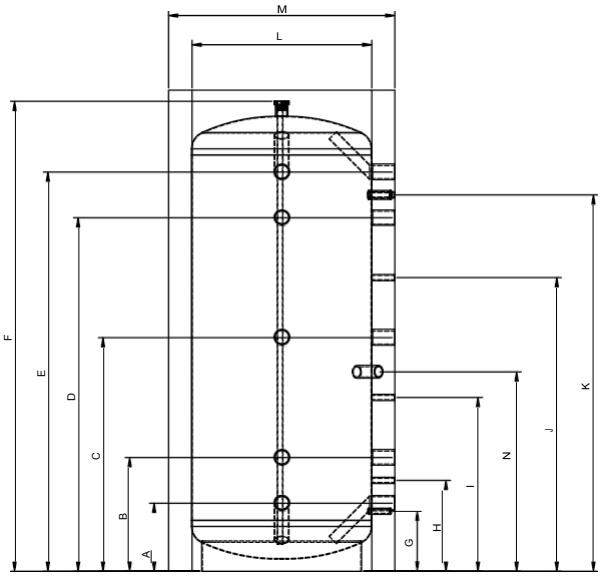
JPSW	Unit	500 G10	500 G5	750 G10	750 G5	900 G10	900 G5	1,500 G10	1,500 G5	2000 G10	2,000 G5
Net volume	l	480	480	718	718	887	887	1501	1501	2011	2011
Ø without insulation	mm	650	650	790	790	790	790	1,000	1,000	1100	1100
Height without insulation	mm	1630	1630	1690	1690	2040	2040	2150	2150	2385	2385
tilt height	mm	1665	1665	1740	1740	2085	2085	2195	2195	2430	2430
Heating operating pressure	bar	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0
Max. operating temperature	°C	95	95	95	95	95	95	95	95	95	95
Weight	kg	74	74	92	92	106	106	165	165	229	229
Item No.		178500	1785001	178750	1787501	178900	1789001	1781500	17815001	1782000	17820001
insulation		Polyester fiber fleece									
	mm	100						130			
Ø with insulation	mm	850	850	990	990	990	990	1,260	1,260	1360	1360
Height with insulation	mm	1680	1680	1740	1740	2090	2090	2250	2250	2,485	2,485
Weight	kg	12	12	15	15	17	17	21	21	23	23
ErP Class		C	C	C	C	C	C	C	C	C	C
ErP Heat Loss	W	106	106	127	127	141	141	142	142	164	164
ErP-relevant content	l	480	480	718	718	887	887	1,500	1,500	2000	2000

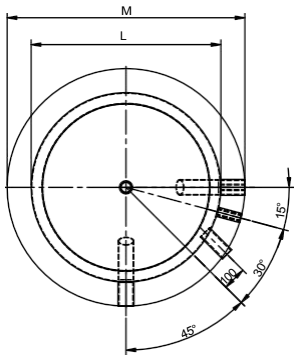
Options for Integrating an Electric Heater into JPSW Series Tanks

Part No.	electric heater		Immersion Depth (mm)	500	750	900	1,500	2000
957102	1 ½"	2.0 kW	330	+	+	+	+	+
957103	1 ½"	3.0 kW	375	+	+	+	+	+
957105	1 ½"	4.5 kW	470	+	+	+	+	+
9571061	1 ½" "short"	6.0 kW	450	+	+	+	+	+
957106	1 ½"	6.0 kW	590	+	+	+	+	+
957108	1 ½"	7.5 kW	720	-	+	+	+	+
957109	1 ½"	9.0 kW	780	-	+	+	+	+
957112	1 ½"	12.0 kW	1100	-	-	-	-	+

+ = Installation possible
- = Installation not possible

1.7 High-Performance Buffer Tank, for Residential Systems—
Specification Sheet JPSW 500 G10 – 2000 G5*





	Usage	Dimension	500 G10	500 G5	750 G10	750 G5	900 G10	900 G5	1,500 G10	1,500 G5	2000 G10	2,000 G5
F	Height	without insulation - mm	1630	1630	1693	1693	2040	2040	2150	2150	2370	2370
L	Diameter	without insulation - mm	650	650	790	790	790	790	1,000	1,000	1100	1100
A	Connection 1	Height - mm	245	245	298	298	298	298	315	315	335	335
		Connection - female thread	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
B	Connection 2	Height - mm	445	445	498	498	498	498	515	515	535	535
		Connection - female thread	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
C	Connection 3	Height - mm	805	805	848	848	1023	1023	1065	1065	1175	1175
		Connection - female thread	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
D	Connection 4	Height - mm	1165	1165	1198	1198	1286	1286	1615	1615	1815	1815
		Connection - female thread	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
E	Connection 5	Height - mm	1365	1365	1398	1398	1548	1548	1815	1815	2015	2015
		Connection - female thread	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
N	Connection 6 / E-socket	Height - mm	685	685	733	733	873	873	915	915	1015	1015
		Connection - female thread	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"	1½"
F	Top connection	Height - mm	1630	1630	1693	1693	1748	1748	2150	2150	2370	2370
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
	connection Sensor core tube	Height - mm	1655	1655	1718	1718	1773	1773	2175	2175	2395	2395
		Inner diameter - mm	16	16	16	16	16	16	16	16	16	16
H	Probe Arrangement	Height - mm	345	345	398	398	398	398	415	415	435	435
G	drain	Height - mm	210	210	263	263	263	263	280	280	300	300
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
I	Thermometer Sleeve	Height - mm	625	625	673	673	761	761	790	790	855	855
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
J	Thermometer Sleeve	Height - mm	985	985	1023	1023	1286	1286	1340	1340	1495	1495
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
K	2.5-conductor system	Height - mm	1265	1265	1298	1298	1648	1648	1715	1715	1915	1915
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"

1.8 Multifunction tank—complete solution via direct installation—without heat exchanger

PFW 380–1000*



Model:	Buffer tank with diffusers, baffle plate, and curved pipes made of S235JR high-quality steel in accordance with DIN 4753 Operating pressure: 4.5 bar / Test pressure: 6 bar max. Operating temperature: 95 °C
Design:	Unfinished interior, exterior with anti-corrosion coating The PFW multifunction tank is available in various sizes and is the ideal all-in-one solution for heating, domestic hot water, and solar applications in single-family, two-family, or multi-family homes. Thanks to the internal piping and the flow-through principle, it enables a continuous supply of domestic hot water without temperature fluctuations. The fresh water station and the two heating circuit stations can be mounted directly on the storage tank. The internal piping ensures ideal stratification within the storage tank. Our PFW multifunction tank was developed in collaboration with Tuxhorn. You can find the corresponding components in Tuxhorn's product portfolio. The tank offers optimal conditions for quickly and efficiently connecting the components directly to the tank, thanks to 1" male thread flat-seal connections. The system connections (8 in total) are 1 ½" female threaded. Connections D, H, G, and R are equipped with a stratification guide channel, which ensures optimized stratification during charging and discharging. Connections for the heating circuits and the fresh water station are 1" male thread with flat seals. A 1 ½" electric heater can only be installed in connections N and T. The return line of the heating circuit leads into the stratification box in the cold section of the tank. Electric heating elements can be installed at the very bottom or in the middle above the baffle plate. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers. Note: The tank can be connected to a communication network. To do this, the **left 4 system connections** must be used (connections N+P+S+T).
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Insulation must always be ordered separately; other types of insulation available upon request
Additional:	Flanges or sockets and other tank sizes available upon request. Price and delivery time upon request

* The model designation does not directly indicate the exact net capacity of the tank.

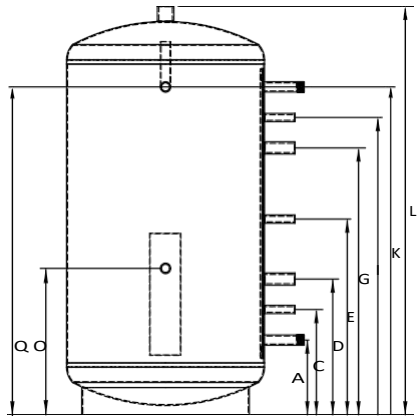
1.8 Multifunction Tank - Complete Solution via Direct Installation - Without a Heat Exchanger

PFW 380–1000

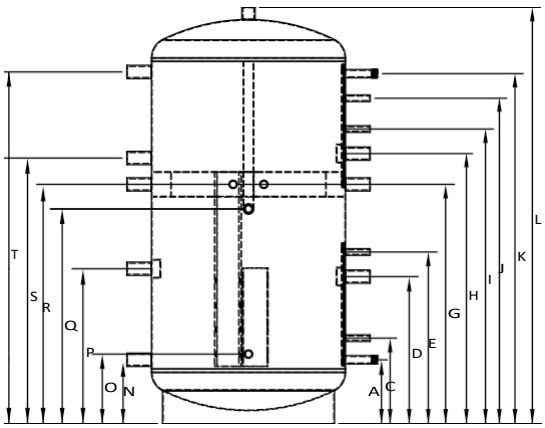
PFW	Unit	380	500	800	1,000
Net volume	l	381	461	694	861
Ø without insulation	mm	650	650	790	790
Height without insulation	mm	1340	1,630	1,690	2040
tilt height	mm	1390	1665	1,740	2085
Heating operating pressure	bar	4.5	4.5	4.5	4.5
Max. operating temperature	°C	95	95	95	95
Weight	kg	78	144	188	209
Item No.		3713801	3715001	3718001	37110001
insulation		Polyester fiber fleece			
	mm	100			
Ø with insulation	mm	850	850	990	990
Height with insulation	mm	1370	1,680	1,740	2090
Weight	kg	10	11	14	16
Item No.		3719380	3719500	3719800	37191000
ErP Class		C	C	C	C
ErP Heat Loss	W	104	106	127	141
ErP-relevant content	l	401	480	718	887

1.8 Multifunction Tank—Complete Solution via Direct Installation—Without Heat Exchanger

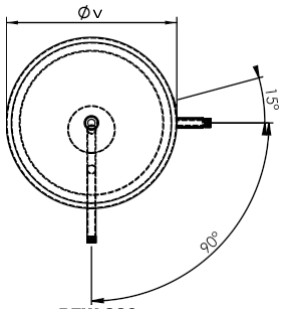
Dimension Sheet PFW 380–1000



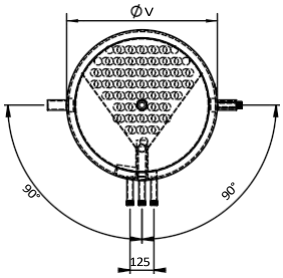
PFW 380



PFW 500–1000



PFW 380



PFW 500–1000

	Application	Dimension	380	500	800	1000
	Insertion dimension, socket length 100 mm	mm	690	690	800	800
L	Height	without insulation - mm	1340	1630	1690	2040
V	Diameter	without insulation - mm	650	650	790	790
A	Connection 1	Height - mm	245	130	260	273
		Connection - AG*	1"	1"	1"	1"
C	Probe	Height - mm	345	290	348	363
		Probe - IG	½"	½"	½"	½"
D	Connection 2	Height - mm	445	490	598	613
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
E	Probe	Height - mm	625	590	698	713
		Probe - IG	½"	½"	½"	½"
G	Connection 3	Height - mm	875	905	973	1073
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
H	Connection 4	Height - mm	-	1040	1098	1363
		Connection - female thread	-	1 ½"	1 ½"	1 ½"
I	Probe	Height - mm	975	1140	1198	1463
		Probe - IG	½"	½"	½"	½"
J	Probe	Height - mm	-	1290	1323	1648
		Probe - IG	-	½"	½"	½"
K	Connection 5	Height - mm	1075	1390	1423	1748
		Connection - AG*	1"	1"	1"	1"
N	Connection 6 / E-socket	Height - mm	-	220	260	310
		Connection - female thread	-	1 ½"	1 ½"	1 ½"
O	Connection FWS RL	Height - mm	480	215	283	383
		Connection - AG*	1"	1"	1"	1"
P	Connection 6 / E-socket	Height - mm	-	620	630	745
		Connection - female thread	-	1 ½"	1 ½"	1 ½"
Q	FWS VL connection	Height - mm	1075	805	873	973
		Connection - AG*	1"	1"	1"	1"
R	Connection 7 Connection HZ VL + RL VL Right, RL Left	Height - mm	-	905	973	1073
		Connection - female thread	-	1 ½"	1 ½"	1 ½"
		Connection - AG*	-	1"	1"	1"
		Throat depth - mm	-	125	125	125
S	Connection 8 / E-socket	Height - mm	-	1010	1080	1250
		Connection - female thread	-	1 ½"	1 ½"	1 ½"
T	Connection 9	Height - mm	-	1390	1430	1710
		Connection - female thread	-	1 ½"	1 ½"	1 ½"

* Flat-seal

1.9 Multifunction tank—complete solution via direct installation—with heat exchanger

PFWR 500–1000*



Design:	Buffer tank with diffusers, baffle plate, and bent pipes; high-quality S235JR steel per DIN 4753 Operating pressure: 4.5 bar / Test pressure: 6 bar max. Operating temperature: 95 °C
Design:	Unfinished interior, exterior with anti-corrosion coating The PFWR multifunction tank is available in various sizes and is the ideal all-in-one solution for heating, domestic hot water, and solar applications in single-family, two-family, or multi-family homes. Thanks to the internal piping and the flow-through principle, it enables a continuous supply of domestic hot water without temperature fluctuations. The fresh water station and the two heating circuit stations can be mounted directly on the storage tank. The internal piping ensures ideal stratification within the storage tank. Our PFWR multifunction tank was developed in collaboration with Tuxhorn. You can find the corresponding components in Tuxhorn's product portfolio. The tank offers optimal conditions for quickly and efficiently connecting the components directly to the tank, thanks to 1" male thread flat-seal connections. The system connections (8 in total) are 1 ½" with female thread. Connections D, H, G, and R are equipped with a stratification guide channel, which ensures optimized stratification during charging and discharging. Connections for the heating circuits and the fresh water station are 1" with male thread and flat seals. An 1 ½" electric heater can only be installed in connections N and T. The return line from the heating circuit leads into the stratified storage compartment in the cold section of the tank. Heating elements can be installed at the very bottom or in the middle above the baffle plate. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. In addition, there are 4 ½" sockets for sensors/thermometers. Note: The storage tank can be connected to a communication network. To do this, the **left four system connections** must be used (connections N+P+S+T).
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Insulation must always be ordered separately; other types of insulation available upon request
Additional:	Flanges or sockets and other tank sizes available upon request. Price and delivery time upon request

* The model designation does not directly indicate the exact net capacity of the tank.

1.9 Multifunction Tank—Complete Solution via Direct Installation—with Heat Exchanger

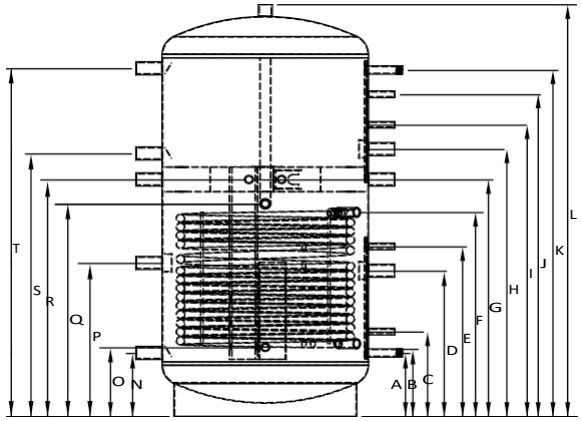
PFWR 500–1000

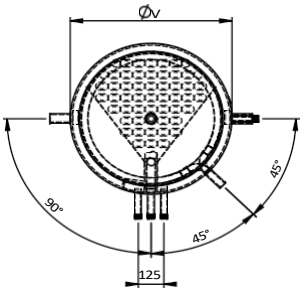
PFWR	Unit	500	800	1000
Net capacity	l	461	694	861
Ø without insulation	mm	650	790	790
Height without insulation	mm	1630	1,690	2040
tilt height	mm	1665	1740	2085
Heating operating pressure	bar	4.5	4.5	4.5
Operating pressure, heat exchanger	bar	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95
Weight	kg	144	188	209
Item No.		371500	371800	3711000
insulation		Polyester fiber fleece		
	mm	100		
Ø with insulation	mm	850	990	990
Height with insulation	mm	1680	1740	2090
Weight	kg	11	14	16
Item No.		3719500	3719800	37191000
ErP Class		C	C	C
ErP Heat Loss	W	106	127	141
ErP-relevant content	l	480	718	887

PFWR	Unit	500	800	1,000
Register at the bottom	m²	1.8	2.8	3.0
Contents of the bottom tab	l	12.6	19.6	21.0
Pressure loss in heat exchanger	mbar	74	248	274

1.9 Multifunction Tank—Complete Solution via Direct Installation—with Heat Exchanger

PFWR 500–1000





	Application	Dimension	500	800	1000
	Insertion dimension, socket length 100 mm	mm	690	800	800
L	Height	without insulation - mm	1630	1,690	2040
V	Diameter	without insulation - mm	650	790	790
A	Connection 1	Height - mm	130	260	273
		Connection - AG*	1"	1"	1"
C	Sensor	Height - mm	290	348	363
		Probe - IG	½"	½"	½"
D	Connection 2	Height - mm	490	598	613
		Connection - female thread	1 ½"	1 ½"	1 ½"
E	Sensor	Height - mm	590	698	713
		Probe - IG	½"	½"	½"
G	Connection 3	Height - mm	905	973	1073
		Connection - female thread	1 ½"	1 ½"	1 ½"
H	Connection 4	Height - mm	1040	1098	1363
		Connection - female thread	1 ½"	1 ½"	1 ½"
I	Sensor	Height - mm	1140	1198	1463
		Probe - IG	½"	½"	½"
J	Sensor	Height - mm	1290	1323	1648
		Probe - IG	½"	½"	½"
K	Connection 5	Height - mm	1390	1423	1748
		Connection - AG*	1"	1"	1"
N	Connection 6 / E-socket	Height - mm	220	260	310
		Connection - female thread	1 ½"	1 ½"	1 ½"
O	Connection FWS RL	Height - mm	215	283	383
		Connection - AG*	1"	1"	1"
P	Connection 6 / E-socket	Height - mm	620	630	745
		Connection - female thread	1 ½"	1 ½"	1 ½"
Q	FWS VL connection	Height - mm	805	873	973
		Connection - AG*	1"	1"	1"
R	Connection 7 Connection HZ VL + RL VL Right, RL Left	Height - mm	905	973	1073
		Connection - female thread	1 ½"	1 ½"	1 ½"
		Connection - AG*	1"	1"	1"
		Pitch - mm	125	125	125
S	Connection 8 / E-socket	Height - mm	1010	1080	1250
		Connection - female thread	1 ½"	1 ½"	1 ½"
T	Connection 9	Height - mm	1390	1430	1710
		Connection - female thread	1 ½"	1 ½"	1 ½"
F	Flow Register	Height - mm	685	838	913
		Connection - female thread	1"	1"	1"
B	RL Register	Height - mm	245	298	298
		Connection - female thread	1"	1"	1"

* Flat-seal

1.10 Buffer tank, without heat exchanger, tall design JPSH 800–1500*



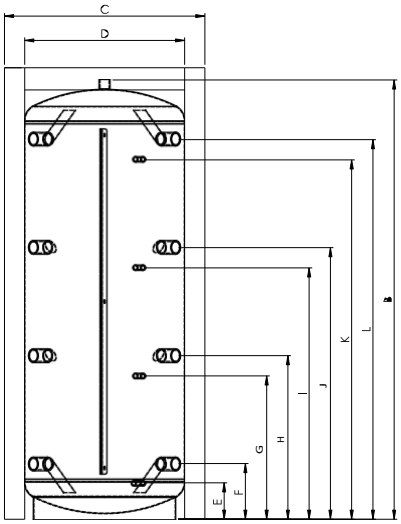
Model:	Buffer tank with curved pipes, high-quality steel S235JR per DIN 4753, operating pressure: 4.5 bar / test pressure: 6 bar, max. operating temperature: 95 °C
Specifications:	Raw interior, exterior with anti-corrosion coating The 2" system connections at levels H and J are equipped with stratification baffles, which ensure optimized stratification. These can be bent out of the way if necessary, such as when installing electric heaters or diffusers. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 3 ½" sockets for sensors/thermometers. Note: The tank cannot be connected in a communicating configuration (mitered pipes pointing upward).
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Insulation must always be ordered separately; other insulation types available upon request
Additional:	Flanges or sockets and other tank sizes available upon request. Price and delivery time upon request

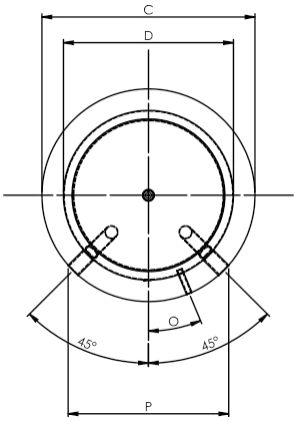
* The model designation does not directly indicate the exact net capacity of the tank.

1.10 Buffer tank, without heat exchanger, tall design JPSH 800–1500

JPSH	Unit	800	950	1500
Net volume	l	802	956	1500
Ø without insulation	mm	790	790	1000
Height without insulation	mm	1850	2170	2,150
tilt height	mm	1900	2210	2195
Heating operating pressure	bar	4.5	4.5	4.5
Max. operating temperature	°C	95	95	95
Weight	kg	129	147	191
Item No.		172800	172950	1721500
insulation		Polyester fiber fleece		
	mm	100	100	130
Ø with insulation	mm	990	990	1260
Height with insulation	mm	1900	2,220	2250
Weight	kg	15	17	21
Item No.		9721800	9721950	97211500
ErP Class		C	C	C
ErP Heat Loss	W	136	144	132
ErP-Relevant Content	l	802	956	1500

1.10 Buffer tank, without heat exchanger, tall design—Data Sheet JPSH 800–1500





	Application	Dimension	800	950	1500
	Insertion dimension, socket length 100 mm	mm	800	800	1000
B	Height	without insulation - mm	1850	2170	2150
D	Diameter	without insulation - mm	790	790	1000
E	drain	Height - mm	180	180	200
		Connection - female thread	½"	½"	½"
F	Connection 1	Height - mm	275	275	315
		Connection - female thread	2"	2"	2"
H	Connection 2	Height - mm	702	808	815
		Connection - female thread	2"	2"	2"
J	Connection 3	Height - mm	1128	1342	1315
		Connection - female thread	2"	2"	2"
L	Connection 4	Height - mm	1555	1875	1815
		Connection - female thread	2"	2"	2"
G	Sensor 1	Height - mm	602	708	715
		Probe - IG	½"	½"	½"
I	Sensor 2	Height - mm	1028	1242	1215
		Probe - IG	½"	½"	½"
K	Probe 3	Height - mm	1455	1775	1715
		Probe - IG	½"	½"	½"
B	Top connection	Height - mm	1850	2170	2150
		Connection - female thread	1 ½"	1 ½"	1"
O	Sensor Position	°	22.5	22.5	22.5

1.11 Heat Pump Buffer Tank (permanently foam-insulated)

EWPS 100–500*



Application:	Supplementary buffer tank for heat pumps, solid fuels, and similar applications
Construction:	High-quality steel S235JR per EN 10025; operating pressure: 3 bar / test pressure: 4.5 bar; max. operating temperature: 95 °C
Finish:	Raw interior, exterior with anti-corrosion coating All connections equipped with deflector plates
insulation:	50 mm PUR rigid foam with Skymantel in silver
Electric heating:	Up to 4 ESH 1 ½" screw-in electric heaters possible (on-site reduction from 2 ½" to 1 ½" required)

* The model designation does not directly indicate the exact net capacity of the tank.

1.11 Heat Pump Buffer Tank (permanently foam-insulated)

EWPS 100–500

EWPS	Unit	100	200	300	400	500
Net volume	l	105	223	305	396	467
Heating operating pressure	bar	3.0	3.0	3.0	3.0	3.0
Max. operating temperature	°C	95	95	95	95	95
insulation		50 mm PUR rigid foam, permanently bonded				
Weight	kg	55	60	75	90	105
Item No.		170100	170200	170300	170400	170500
ErP Class		C	C	C	C	C
ErP Heat Loss	W	55	83	96	106	112
ErP-relevant content	l	105	223	305	396	467

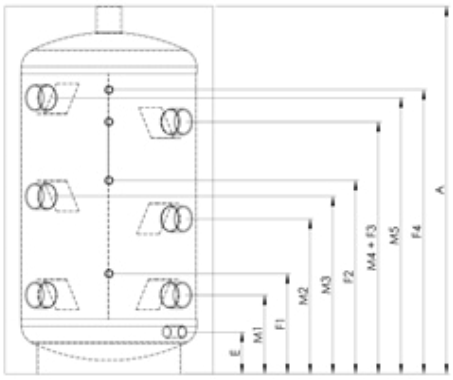
Installation Options for Screw-In Heaters:

Item No.	electric heater		Voltage V	Immersion Depth mm	100	200	300	400	500
957102	1 ½"	2.0 kW	230	320	+	+	+	+	+
957103	1 ½"	3.0 kW	230	390	+	+	+	+	+
957105	1 ½"	4.5 kW	3 ~ 380	500	-	+	+	+	+
957106	1 ½"	6.0 kW	3 ~ 380	620	-	-	-	+	+
957108	1 ½"	7.5 kW	3 ~ 380	720	-	-	-	-	-
957109	1 ½"	9.0 kW	3 ~ 380	850	-	-	-	-	-
957112	1 ½"	12.0 kW	3 ~ 380	1100	-	-	-	-	-

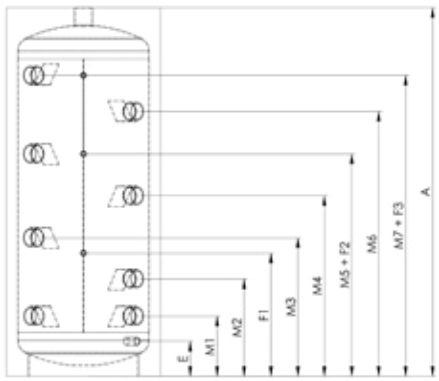
+ = Installation possible
- = Installation not possible

1.11 Heat Pump Buffer Tank (permanently foam-insulated)

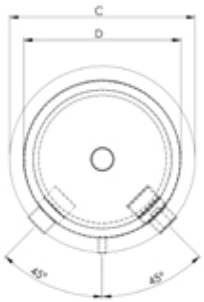
Dimension Sheet EWPS 100–500



EWPS 100–200



EWPS 300–500



	Application	Dimensions	100	200	300	400	500
	Contents	l	105	223	304	396	478
	tilt height	mm	1070	1330	1640	1840	2060
A	Height	with insulation - mm	1010	1150	1500	1690	1930
C	Diameter	with insulation - mm	508	670	670	700	700
E	drain	Height - mm	95	130	130	160	160
		Connection - female thread	¾"	1"	1"	1"	1"
M1	connection	Height - mm	178	245	245	275	275
		Connection - female thread	1 ½"	2 ½"	2 ½"	2 ½"	2 ½"
M2	connection	Height - mm	496	483	390	445	485
		Connection - female thread	1 ½"	2 ½"	2 ½"	2 ½"	2 ½"
M3	connection	Height - mm	813	553	558	633	722
		Connection - female thread	1 ½"	2 ½"	2 ½"	2 ½"	2 ½"
M4	connection	Height - mm	-	785	730	825	945
		Connection - female thread	-	2 ½"	2 ½"	2 ½"	2 ½"
M5	connection	Height - mm	-	860	896	1016	1169
		Connection - female thread	-	2 ½"	2 ½"	2 ½"	2 ½"
M6	connection	Height - mm	-	-	1065	1210	1410
		Connection - female thread	-	-	2 ½"	2 ½"	2 ½"
M7	connection	Height - mm	-	-	1210	1375	1615
		Connection - female thread	-	-	2 ½"	2 ½"	2 ½"
A	Top connection	Height - mm	1010	1150	1500	1690	1930
		Connection - female thread	½"	2 ½"	2 ½"	2 ½"	2 ½"
F1	Thermometer / Sensor	Height - mm	800	312	498	563	645
		Connection - female thread	½"	½"	½"	½"	½"
F2	Thermometer / Sensor	Height - mm	-	603	896	1016	1169
		Connection - female thread	-	½"	½"	½"	½"
F3	Thermometer / Sensor	Height - mm	-	785	-	-	-
		Connection - female thread	-	½"	-	-	-
F4	Thermometer / Sensor	Height - mm	-	885	1210	1375	1615
		Connection - female thread	-	½"	½"	½"	½"

1.12 Heat Pump Buffer Tank (permanently foam-insulated), for wall mounting

EWPS WM 40 - 100*



Type:	Buffer tank for heat pumps, made of S235JR high-quality steel per DIN 10025; operating pressure: 3 bar / test pressure: 4.5 bar; max. operating temperature: 95 °C
Design:	Raw interior, exterior permanently foam-insulated for suspended installation; system connections: 1 ½” Additionally, it features a ½" socket for a sensor, a ½" air vent socket, and a 1 ½" socket for an electric heating element from below
insulation:	25 mm PUR rigid foam with a silver Skymantel jacket
Additional:	Suitable only for wall-mounted installation; mounting hardware not included

* The model number does not directly indicate the exact net capacity of the tank.

1.12 Heat Pump Buffer Tank (permanently foam-insulated), for wall mounting

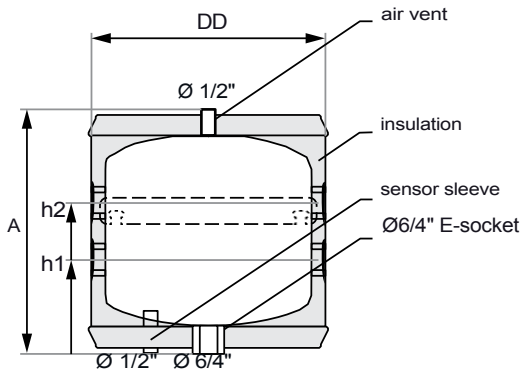
EWPS WM 40 - 100

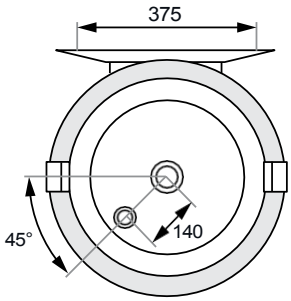
EWPS WM	Unit	40	60	80	100
Net volume	l	40	63	86	106
Heating operating pressure	bar	3.0	3.0	3.0	3.0
Max. operating temperature	°C	95	95	95	95
insulation		25 mm PUR rigid foam, permanently bonded			
Weight	kg	25	31	35	40
Item No.		179040	179060	179080	179100
ErP Class		C	C	C	C
ErP Heat Loss	W	71	83	96	106
ErP-relevant content	l	40	60	80	100

Installation Options for Screw-In Heating Elements:

Item No.	electric heater		Voltage V	Immersion Depth mm	100	200	300	400
957102	1 ½"	2.0 kW	230	320	+	+	+	+
957103	1 ½"	3.0 kW	230	390	+	+	+	+
957,105	1 ½"	4.5 kW	3 ~ 380	500	-	+	+	+
957106	1 ½"	6.0 kW	3 ~ 380	620	-	-	-	+
957108	1 ½"	7.5 kW	3 ~ 380	720	-	-	-	-
957109	1 ½"	9.0 kW	3 ~ 380	850	-	-	-	-
957112	1 ½"	12.0 kW	3 ~ 380	1100	-	-	-	-

1.12 Heat Pump Buffer Tank (permanently foam-insulated), for wall mounting; Dimension Sheet EWPS WM 40 - 100





EWPS WM 40-100

	Application	Dimension	40	60	80	100
	Contents	l	40	63	86	106
	tilt height	mm	-	-	-	-
A	Height	with insulation - mm	480	680	865	1015
D	Diameter	with insulation - mm	460	460	460	460
H1	connection	Height - mm	175	175	175	175
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
H2	connection	Height - mm	305	505	690	840
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"

1.13 JKPS 200–2000* Cold Water Buffer Tank



Design:	Buffer tank with curved pipes made of S235JR high-quality steel according to EN 10025 Operating pressure: 6 bar / Test pressure: 9 bar Max. operating temperature: 50 °C
Design:	Raw interior; exterior features high-performance, active corrosion protection based on **a two-component zinc phosphate anti-corrosion primer in gray**. Optimally prepared for bonding diffusion-tight insulation. Optimized volume utilization thanks to inlet elbows at the loading and unloading connections that are oriented toward the Klöpper bottom. Type 200–500: Primary connections as sockets; elbow pipe in the same DN size From Type 750 onward: Primary connections are flanged; **the elbow pipe is one DN larger than the flange** to achieve optimal flow
Additionally:	Flanges or sockets and other tank sizes available upon request; price and delivery time upon request

* The model number does not directly indicate the exact net capacity of the tank.

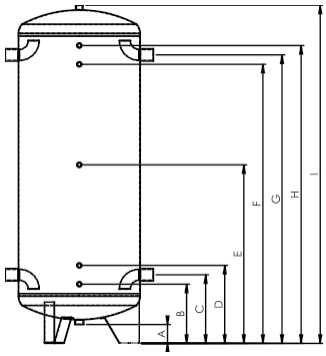
1.13 Cold Water Buffer Tank

JKPS 200 - 2000

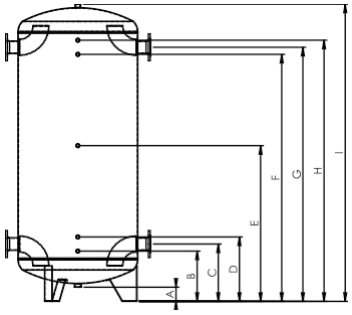
JKPS	Unit	200	300	500	750	1,000	1,500	2,000
Net volume	l	202	307	508	744	1,023	1,523	1973
Ø without insulation	mm	550	550	650	790	850	1,000	1,100
Height without insulation	mm	1,100	1,550	1800	1800	2100	2,250	2400
tilt height	mm	1170	1615	1,865	1870	2170	2322	2,475
Heating operating pressure	bar	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Max. operating temperature	°C	50	50	50	50	50	50	50
Weight	kg	49	67	93	121	157	202	251
Item No.		173200	173300	173500	173750	1731000	1,731,500	1,732,000
JKPS	**Unit**	**200**	**300**	**500**	**750**	**1,000**	**1,500**	**2,000**
insulation		Jura Cool Cold Insulation						
	mm	25						
Ø with insulation	mm	600	600	700	840	900	1,050	1,150
Height with insulation	mm	1,100	1,550	1800	1800	2100	2,250	2400
Weight	kg	12	13	13	14	15	17	19
Item No.		9722200	9722300	9722500	9722750	97221000	97221500	97222000
JKPS	**Unit**	**200**	**300**	**500**	**750**	**1,000**	**1,500**	**2,000**
Surface protection		LDPE Surface Protection						
Item No.		97222001	97223001	97225001	97227501	972210001	972215001	97220001
JKPS	**Unit**	**200**	**300**	**500**	**750**	**1,000**	**1,500**	**2,000**
insulation		Fleece insulation over Jura Cool for heating and cooling						
	mm	100			130			
Ø with insulation	mm	800	800	900	1,100	1160	1,310	1,410
Height with insulation	mm	1200	1650	1900	1950	2,250	2400	2,550
Weight	kg	10	11	11	17	19	21	25
Item No.		97222002	97223002	97225002	97227502	972210002	972215002	972220002

1.13 Cold Water Buffer Tank

JKPS 200–2000



JKPS 200–500



JKPS 750–2000

	Applications	Dimension	200	300	500	750	1,000	1,500	2,000
P	Insertion dimension, socket length 100 mm	mm	550	550	650	800	850	1,000	1,100
B	Height	without insulation - mm	1,100	1550	1800	1800	2100	2,250	2,400
J	Diameter	without insulation - mm	550	550	650	790	850	1,000	1,100
C	Connection 1	Height - mm	345	345	365	395	405	435	505
		connection	1 ½"	1 ½"	2"	DN65/6	DN80/6	DN100/6	DN125/6
G	Connection 2	Height - mm	855	1305	1535	1505	1795	1915	1995
		connection	1 ½"	1 ½"	2"	DN65/6	DN80/6	DN100/6	DN125/6
B	Sensor 1	Height - mm	295	295	315	345	355	385	405
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
D	Sensor 2	Height - mm	395	395	415	445	455	485	505
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
E	Probe 3	Height - mm	600	825	950	950	1,100	1,175	1305
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
F	Probe 4	Height - mm	805	1255	1485	1455	1745	1865	1995
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
H	Probe 5	Height - mm	905	1355	1585	1555	1845	1965	2095
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
I	connection top	Height - mm	1,100	1550	1800	1800	2100	2,250	2,400
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
A	drain	Height - mm	100 mm ground clearance						
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"

2.1 Hygienic layered combination storage tank, without heat exchanger EH 550 - 2000*



Application:	Fresh water storage tank for oil, gas, solids, and similar substances
	Buffer tank made of high-quality S235JR steel per EN 10025, with a raw interior and a rust-protective coating on the exterior All 1 ½" system connections are equipped with stratification baffles, which ensure optimized stratification. An electric heater can only be installed in connection E.
Design:	The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers. Starting with Type 750, there are two additional stratification channels for improved stratification, as well as two additional system connections and one additional sensor connection.
heat exchanger:	**domestic water** Permanently welded stainless steel corrugated pipe
	Polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days)
insulation:	Neodul®insulation with a silver surface Insulation must always be ordered separately; other insulation types available upon request

* The model designation does not directly indicate the exact net capacity of the tank.

2.1 Hygienic layered combination storage tank, without heat exchanger EH 550–2000

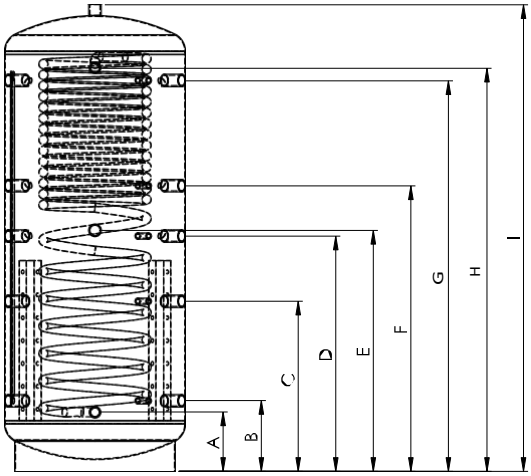
EH	Unit	550	750	900	1,100	1,250	1,500	2,000
Net volume	l	522	680	849	1054	1,223	1,451	1972
Ø without insulation	mm	700	790	790	850	950	1,000	1,100
Height without insulation	mm	1630	1,690	2040	2170	2010	2130	2350
tilt height	mm	1,690	1740	2085	2215	2070	2230	2,440
Heating operating pressure	bar	4.5	4.5	4.5	3.0	3.0	3.0	3.0
Operating pressure for water	bar	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95	95	95	95	95
Weight	kg	117	155	181	170	184	271	362
Item No.		174550	174750	174900	1741100	1741250	1,741,500	1,742,000
insulation		Polyester fiber fleece						
	mm	100			130			
Ø with insulation	mm	900	990	990	1,100	1210	1,260	1360
Height with insulation	mm	1680	1740	2090	2,270	2110	2230	2,450
Weight	kg	12	14	16	18	18	21	25
Item No.		9723550	9723750	9723900	9971100	97231250	97231500	97232000
ErP Class		C	C	C	C	C	C	C
ErP Heat Loss	W	118	127	141	137	130	132	164
insulation		Neodul® Insulation						
	mm	130						140
Ø with insulation	mm	960	1050	1050	1,100	1210	1,260	1380
Height with insulation	mm	1730	1,790	2140	2,270	2110	2230	2,500
Weight	kg	14	16	18	19	18	23	25
Item No.		9720600	9720825	97201000	97201100	97201250	97201500	97202000
ErP Class		B	B	B	B	B	B	B
ErP Heat Loss	W	68	83	98	105	107	122	113
ErP-relevant content	l	560	718	887	1,103	1,268	1501	2010

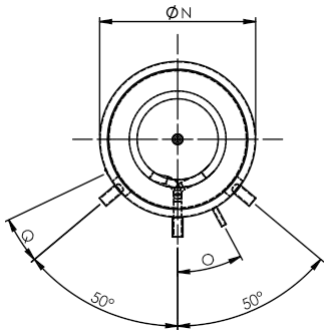
EH	Unit	550		750		900		1,100		1,250		1,500		2,000	
Heating surface stainless steel corrugated pipe	m²	7.7		7.7		7.7		7.7		7.7		10.5		10.5	
Stainless Steel Corrugated Pipe Content	l	39.0		39.0		39.0		39.0		39.0		49.0		49.0	
Pressure drop at 1,000 l/h	mbar	22		22		22		22		22		31		31	
Pressure loss at 3,000 l/h	mbar	210		210		210		210		210		300		300	
Buffer temperature	°C	60	80	60	80	60	80	60	80	60	80	60	80	60	80
Continuous hot water output* 10 °C / 45 °C (50% flow rate)	l/min	11.5	19.3	11.5	19.3	11.5	19.3	11.5	19.3	11.5	19.3	15.9	25.3	15.9	25.3
Continuous hot water output* 10 °C / 45 °C (100% flow rate)	l/min	22.9	35.1	22.9	35.1	22.9	35.1	22.9	35.1	22.9	35.1	31.6	45.6	31.6	45.6
Max. register capacity	kW	55	105	55	105	55	105	55	105	55	105	77	145	77	145

* Calculated value; the charge level refers to the buffer tank.
e.g., 50% fill level at 60 °C -> 50% of the buffer contents are at 60 °C, and the remaining storage temperature is heated to at least 40 °C

e.g., 100% heat transfer at 80 °C → 100% of the buffer contents are heated to 80 °C

2.1 Hygienic layered combination storage tank, without heat exchanger; Dimension sheet EH 550–2000





	Application	Dimension	550	750	900	1100	1250	1,500	2000
	Insertion dimension, socket length 100 mm	mm	740	800	800	(nominal diameter)	(nominal diameter)	(nominal diameter)	(nominal diameter)
I	Height	without insulation - mm	1630	1690	2040	2170	2010	2130	2350
N	Diameter	without insulation - mm	700	790	790	850	950	1,000	1100
B	Connection 1	Height - mm	230	260	310	285	310	380	320
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
C	Connection 2	Height - mm	610	630	745	812	745	825	900
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
D	Connection 3	Height - mm	N/A	900	1030	1163	1038	1180	1305
		Connection - female thread		1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG		½"	½"	½"	½"	½"	½"
F	Connection 4	Height - mm	990	1030	1250	1338	1250	1,350	1490
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
G	Connection 5	Height - mm	1380	1430	1710	1865	1710	1760	2020
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
I	Top connection	Height - mm	1630	1690	2040	2170	2010	2130	2350
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
E	ESH	Height - mm	855	915	1055	1115	1038	1115	1305
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
H	Stainless Steel Corrugated Pipe for Hot Water	Height - mm	1385	1430	1765	1865	1748	1825	2020
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
A	Stainless Steel Corrugated Pipe, Cold Water	Height - mm	230	260	260	285	243	320	320
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
O	Arrangement Sensor, register	°	28.2	28.2	28.2	29.8	31.9	32.8	34.5
Q	Position of sensor terminal strip	°	16.4	14.5	14.5	13.5	12.1	11.5	10

s.Ø = see diameter without insulation

2.2 Hygienic layered combination storage tank with heat exchanger EHS 550–2000*



Application:	Fresh water storage tank for oil, gas, solids, solar, and similar applications
Design:	Buffer tank made of high-quality S235JR steel per EN 10025, with a raw interior and a rust-protective coating on the exterior All 1 ½" system connections are equipped with stratification baffles, which ensure optimized stratification. An electric heater can only be installed in connection E. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers. Starting with Type 750, there are two additional stratification channels for improved stratification, as well as two additional system connections and one additional sensor connection.
heat exchanger:	**Solar** A permanently welded steel-tube heat exchanger **domestic water** Permanently welded stainless steel corrugated pipe
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White available upon request (2–3 business days) Neodul®insulation with silver surface Insulation must always be ordered separately; other insulation types available upon request

* The model designation does not directly indicate the exact net capacity of the tank.

2.2 Hygienic layered combination storage tank with heat exchanger EHS 550–2000

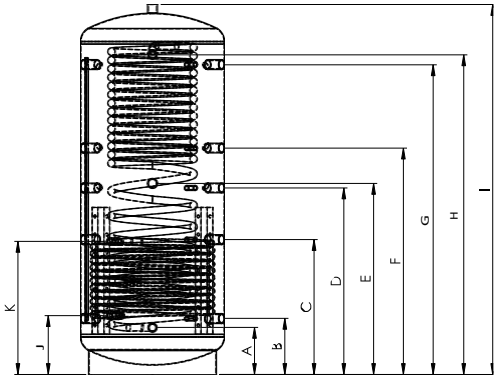
EHS	Unit	550	750	900	1100	1,250	1,500	2,000
Net volume	l	509	663	829	1033	1,204	1,425	1942
Ø without insulation	mm	700	790	790	850	950	1,000	1100
Height without insulation	mm	1630	1,690	2040	2170	2010	2130	2350
tilt height	mm	1,690	1740	2085	2215	2070	2230	2440
Heating operating pressure	bar	4.5	4.5	4.5	3.0	3.0	3.0	3.0
Operating pressure for water and heat exchanger	bar	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95	95	95	95	95
Weight	kg	152	190	221	216	233	311	442
Item No.		175550	175750	175,900	1,751,100	1,751,250	1,751,500	1,752,000
insulation		Polyester fiber fleece						
	mm	100			130			
Ø with insulation	mm	900	990	990	1100	1210	1,260	1360
Height with insulation	mm	1680	1740	2090	2,270	2110	2230	2,450
Weight	kg	12	14	16	18	18	21	25
Item No.		9723550	9723750	9723900	9971100	97231250	97231500	97232000
ErP Class		C	C	C	C	C	C	C
ErP Heat Loss	W	118	127	141	137	130	132	164
insulation		Neodul®Insulation						
	mm	130						140
Ø with insulation	mm	960	1050	1050	1100	1210	1,260	1380
Height with insulation	mm	1730	1,790	2140	2,270	2110	2230	2,500
Weight	kg	14	16	18	19	18	23	25
Item No.		9720600	9720825	97201000	97201100	97201250	97201500	97202000
ErP Class		B	B	B	B	B	B	B
ErP Heat Loss	W	68	83	98	105	107	122	113
ErP-relevant content	l	560	718	887	1,103	1268	1501	2010

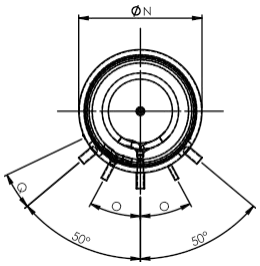
EHS	Unit	550		750		900		1100		1,250		1,500		2,000	
Bottom tab	m²	1.8		2.4		2.8		3.0		3.0		3.6		4.2	
Table of Contents at the bottom	l	12.6		16.8		19.6		21.0		21.0		25.2		29.4	
Pressure loss, lower register	mbar	74		132		248		265		265		318		372	
Heating surface, stainless steel corrugated pipe	m²	7.7		7.7		7.7		7.7		7.7		10.5		10.5	
Stainless Steel Corrugated Pipe Content	l	39.0		39.0		39.0		39.0		39.0		49.0		49.0	
Pressure drop at 1,000 l/h	mbar	22		22		22		22		22		31		31	
Pressure loss at 3,000 l/h	mbar	210		210		210		210		210		300		300	
Buffer temperature	°C	60	80	60	80	60	80	60	80	60	80	60	80	60	80
Continuous hot water output* 10 °C / 45 °C (50% flow rate)	l/min	11.5	19.3	11.5	19.3	11.5	19.3	11.5	19.3	11.5	19.3	11.5	19.3	15.9	25.3
Continuous hot water output* 10 °C / 45 °C (100% flow rate)	l/min	22.9	35.1	22.9	35.1	22.9	35.1	22.9	35.1	22.9	35.1	22.9	35.1	31.6	45.6
Max. register capacity	kW	55	105	55	105	55	105	55	105	55	105	55	105	77	145

* Calculated value; the charge-through refers to the buffer tank.
e.g., 50% heat transfer at 60 °C -> 50% of the buffer contents are at 60 °C, and the remaining storage temperature is heated to at least 40 °C

e.g., 100% heat transfer at 80 °C → 100% of the buffer contents are heated to 80 °C

2.2 Hygienic stratified combination storage tank with heat exchanger—Specification Sheet EHS 550–2000





	Application	Dimension	550	750	900	1100	1250	1,500	2000
	Insertion dimension, socket length 100 mm	mm	740	800	800	(nominal diameter)	(nominal diameter)	(nominal diameter)	(nominal diameter)
I	Height	without insulation - mm	1630	1690	2040	2170	2010	2130	2350
N	Diameter	without insulation - mm	700	790	790	850	950	1,000	1100
B	Connection 1	Height - mm	230	260	310	285	310	380	320
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
C	Connection 2	Height - mm	610	630	745	812	745	825	900
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
D	Connection 3	Height - mm	N/A	900	1030	1163	1038	1180	1305
		Connection - female thread		1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG		½"	½"	½"	½"	½"	½"
F	Connection 4	Height - mm	990	1030	1250	1338	1250	1,350	1490
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
G	Connection 5	Height - mm	1380	1430	1710	1865	1710	1760	2020
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
I	Top connection	Height - mm	1630	1690	2040	2170	2010	2130	2350
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
E	ESH	Height - mm	855	915	1055	1115	1038	1115	1305
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
K	Flow Register at the bottom	Height - mm	790	745	735	930	870	920	1170
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
J	RL Bottom Register	Height - mm	290	335	325	360	310	380	370
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
H	Stainless Steel Corrugated Pipe for Hot Water	Height - mm	1385	1430	1765	1865	1748	1825	2020
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
A	Stainless Steel Corrugated Pipe, Cold Water	Height - mm	230	260	260	285	243	320	320
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
O	Arrangement Sensor, register	°	28.2	28.2	28.2	29.8	31.9	32.8	34.5
Q	Position of sensor terminal strip	°	16.4	14.5	14.5	13.5	12.1	11.5	10

s.Ø = see diameter without insulation

2.3 Hygienic layered combination storage tank, with 2 EHSS 550–2000* heat exchangers



Application:	Fresh water storage tanks for oil, gas, solids, solar, and similar applications
Design:	Buffer tank made of high-quality S235JR steel in accordance with EN 10025; interior is uncoated, exterior has a rust-preventive coating All 1 ½" system connections are equipped with stratification baffles, which ensure optimized stratification. An electric heater can only be installed in connection E. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers. Starting with Type 750, there are two additional stratification channels for improved stratification, as well as two additional system connections and one additional sensor connection.
heat exchanger:	**Solar** Two permanently welded steel-tube coils **domestic water** Permanently welded stainless steel corrugated pipe
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White available upon request (2–3 business days) Neodul®insulation with a silver surface Insulation must always be ordered separately; other insulation types available upon request

* The model designation does not directly indicate the exact net capacity of the tank.

2.3 Hygienic layered combination storage tank, with 2 heat exchangers

EHSS 550–2000

EHSS	Unit	550	750	900	1,100	1,250	1,500	2,000
Net volume	l	501	650	812	1016	1188	1383	1894
Ø without insulation	mm	700	790	790	850	950	1,000	1,100
Height without insulation	mm	1630	1,690	2040	2170	2010	2130	2350
tilt height	mm	1,690	1740	2085	2215	2070	2230	2440
Heating operating pressure	bar	4.5	4.5	4.5	3.0	3.0	3.0	3.0
Operating pressure for water and heat exchanger	bar	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Max. operating temperature	°C	95	95	95	95	95	95	95
Weight	kg	187	225	261	259	272	351	522
Item No.		176550	176750	176900	1761100	1761250	1,761,500	1,762,000
insulation		Polyester fiber fleece						
	mm	100			130			
Ø with insulation	mm	900	990	990	1,100	1210	1260	1360
Height with insulation	mm	1680	1740	2090	2,270	2110	2230	2,450
Weight	kg	12	14	16	18	18	21	25
Item No.		9723550	9723750	9723900	9971100	97231250	97231500	97232000
ErP Class		C	C	C	C	C	C	C
ErP Heat Loss	W	118	127	141	137	130	132	164
insulation		Neodul® Insulation						
	mm	130						140
Ø with insulation	mm	960	1050	1050	1,100	1210	1260	1380
Height with insulation	mm	1730	1790	2140	2,270	2110	2230	2,500
Weight	kg	14	16	18	19	18	23	25
Item No.		9720600	9720825	97201000	97201100	97201250	97201500	97202000
ErP Class		B	B	B	B	B	B	B
ErP Heat Loss	W	68	83	98	105	107	122	113
ErP-relevant content	l	560	718	887	1,103	1268	1501	2010

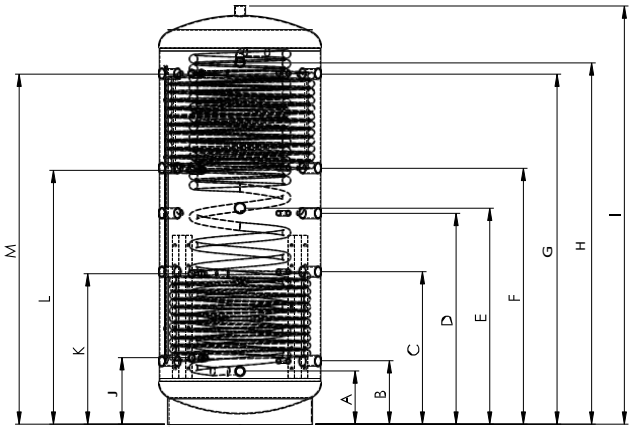
EHSS	Unit	550		750		900		1,100		1,250		1,500		2,000	
Top tab	m²	1.2		1.8		2.4		2.4		2.4		2.4		2.6	
Table of Contents at the top	l	8.4		12.6		16.8		16.8		16.8		16.8		18.2	
Pressure loss, upper register	mbar	24		74		132		132		132		132		230	
Bottom-mounted	m²	1.8		2.4		2.8		3.0		3.0		3.6		4.2	
Table of Contents at the bottom	l	12.6		16.8		19.6		21.0		21.0		25.2		29.4	
Pressure loss, lower register	mbar	74		132		248		265		265		318		372	
Heating surface (stainless steel corrugated pipe)	m²	7.7		7.7		7.7		7.7		7.7		10.5		10.5	
Stainless Steel Corrugated Pipe Content	l	39.0		39.0		39.0		39.0		39.0		49.0		49.0	
Pressure drop at 1,000 l/h	mbar	22		22		22		22		22		31		31	
Pressure loss at 3,000 l/h	mbar	210		210		210		210		210		300		300	
Buffer temperature	°C	60	80	60	80	60	80	60	80	60	80	60	80	60	80
Continuous hot water output* 10 °C / 45 °C (50% flow rate)	l/min	11.5	19.3	11.5	19.3	11.5	19.3	11.5	19.3	11.5	19.3	15.9	25.3	15.9	25.3
Continuous hot water output* 10 ° / 45 °C (100% flow rate)	l/min	22.9	35.1	22.9	35.1	22.9	35.1	22.9	35.1	22.9	35.1	31.6	45.6	31.6	45.6
Max. register capacity	kW	55	105	55	105	55	105	55	105	55	105	77	145	77	145

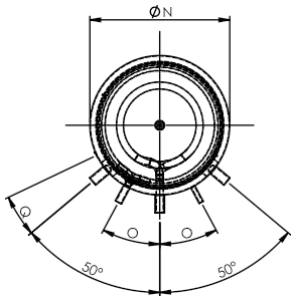
* Calculated value; the charge level refers to the buffer tank.

e.g., 50% fill level at 60 °C -> 50% of the buffer contents are at 60 °C, and the remaining storage temperature is heated to at least 40 °C
e.g., 100% heating at 80 °C → 100% of the buffer contents are heated to 80 °C

2.3 Hygienic layered combination storage tank with 2 heat exchangers

Data Sheet EHSS 550–2000





	Application	Dimensions	550	750	900	1100	1250	1,500	2000
	Insertion dimension, socket length 100 mm	mm	740	800	800	(nominal diameter)	(nominal diameter)	(nominal diameter)	(nominal diameter)
I	Height	without insulation - mm	1630	1690	2040	2170	2010	2130	2350
N	Diameter	without insulation - mm	700	790	790	850	950	1,000	1100
B	Connection 1	Height - mm	230	260	310	285	310	380	320
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
C	Connection 2	Height - mm	610	630	745	812	745	825	900
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
D	Connection 3	Height - mm	N/A	900	1030	1163	1038	1180	1305
		Connection - female thread		1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG		½"	½"	½"	½"	½"	½"
F	Connection 4	Height - mm	990	1030	1250	1338	1250	1,350	1490
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
G	Connection 5	Height - mm	1380	1430	1710	1865	1710	1760	2020
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"	½"	½"	½"
I	Top connection	Height - mm	1630	1690	2040	2170	2010	2130	2350
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
E	ESH	Height - mm	855	915	1055	1115	1038	1115	1305
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
K	Flow Register at the bottom	Height - mm	790	745	735	930	870	920	1170
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
J	RL Bottom Register	Height - mm	290	335	325	360	310	380	370
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
M	flow Top Register	Height - mm	1270	1,400	1710	1815	1690	1760	1970
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
L	RL Register Top	Height - mm	920	1045	1240	1275	1250	1,410	1440
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
H	Stainless Steel Corrugated Pipe for Hot Water	Height - mm	1385	1430	1765	1865	1748	1825	2020
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
A	Stainless Steel Corrugated Pipe, Cold Water	Height - mm	230	260	260	285	243	320	320
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
O	Arrangement Sensor, register	°	28.2	28.2	28.2	29.8	31.9	32.8	34.5
Q	Position of sensor terminal strip	°	16.4	14.5	14.5	13.5	12.1	11.5	10

s.Ø = see diameter without insulation

2.4 High-Performance Hygienic Layered Combination Storage Tanks EHWP 800–950*



Application:	Fresh water storage tank for heat pumps, oil, gas, solid fuels, and similar systems
Design:	Buffer tank made of high-quality S235JR steel in accordance with EN 10025, with a raw interior and a rust-protective coating on the exterior All 2" system connections are equipped with a laminar flow channel. This channel is optimized for high flow rates. As a result, this tank is ideally suited for use with a heat pump. Thanks to the extremely generous surface area of the stainless steel corrugated pipe, very high draw-off rates are possible, with up to 55 liters continuously available. The installation of two electric heaters is only possible in the N+J connections. The tank is equipped with a sensor terminal strip for flexible positioning of contact sensors. Additionally, there are 3 ½" sockets for sensors/thermometers.
heat exchanger:	**domestic water** Permanently welded stainless steel corrugated pipe
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White available upon request (2–3 business days) Insulation must always be ordered separately; other insulation types available upon request

* The model designation does not directly indicate the exact net capacity of the tank.

2.4 High-Performance Hygienic Layered Combination Storage Tank

EHWP 800–950

EHWP	Unit	800	950
Net capacity	l	736	875
Ø without insulation	mm	790	790
Height without insulation	mm	1850	2170
tilt height	mm	1900	2210
Heating operating pressure	bar	4.5	4.5
Operating pressure for water and heat exchanger	bar	6.0	6.0
Max. operating temperature	°C	95	95
Weight	kg	183	212
Item No.		177800	177950
insulation		Polyester fiber fleece	
	mm	100	
Ø with insulation	mm	990	990
Height with insulation	mm	1900	2220
Weight	kg	12	14
Item No.		9724800	9724950
ErP Class		C	C
ErP Heat Loss	W	136	144
ErP-relevant content	l	802	956

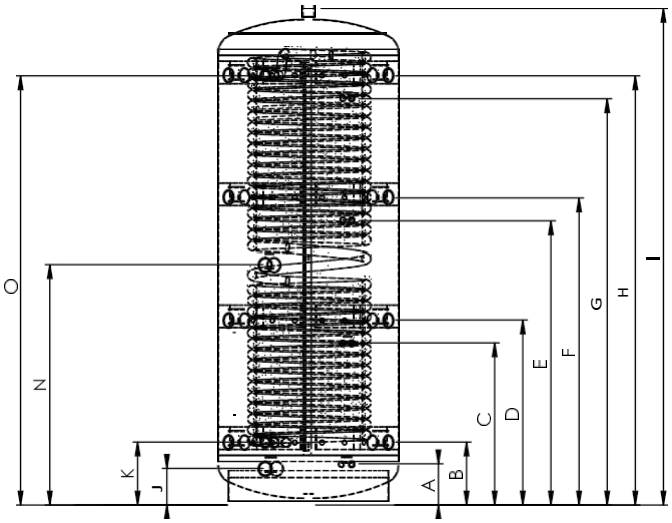
EHWP	Unit	800		950	
Heating surface (stainless steel corrugated pipe)	m²	11.0		13.5	
Volume of stainless steel corrugated pipe	l	55.0		67.5	
Pressure loss at 1,000 l/h	mbar	26		37	
Pressure drop at 3,000 l/h	mbar	254		360	
Buffer temperature	°C	50	80	50	80
Continuous hot water output* 10 °C / 45 °C (50% flow rate)	l/min	15.9	31	19.5	31
Continuous hot water output* 10 °C / 45 °C (100% flow rate)	l/min	31.6	60**	38.9	60**
Max. register capacity	kW	77	148	94	148

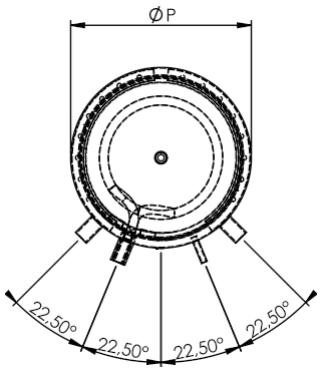
* Calculated value; the flow rate refers to the buffer tank.
** The flow rate must be limited to 60 L/min on site.
e.g., 50% load at 50 °C -> 50% of the buffer tank's contents are heated to 50 °C, while the remaining tank temperature is heated to at least 40 °C

e.g., 100% charge at 50 °C -> 100% of the buffer tank's contents are heated to 50 °C

2.4 High-Performance Hygienic Layered Combination Storage Tank

Specification Sheet EHWP 800–950





	Application	Dimensions	800	950
	Installation dimension: Sleeve length 100 mm	mm	800	800
I	Height	without insulation - mm	1850	2170
P	Diameter	without insulation - mm	790	790
B	Connection 1	Height - mm	275	275
		Connection - female thread	2"	2"
D	Connection 2	Height - mm	702	808
		Connection - female thread	2"	2"
F	Connection 3	Height - mm	1128	1342
		Connection - female thread	2"	2"
H	Connection 4	Height - mm	1555	1875
		Connection - female thread	2"	2"
C	Sensor 1	Height - mm	602	708
		Connection - female thread	½"	½"
E	Sensor 2	Height - mm	1028	1242
		Connection - female thread	½"	½"
G	Sensor 3	Height - mm	1455	1775
		Connection - female thread	½"	½"
A	drain	Height - mm	180	180
		Connection - female thread	½"	½"
I	Top connection	Height - mm	1850	2170
		Connection - female thread	1 ½"	1 ½"
N	E-socket	Height - mm	913	1050
		Connection - female thread	2"	2"
J	E-socket	Height - mm	160	160
		Connection - female thread	2"	2"
O	Stainless steel corrugated pipe for hot water	Height - mm	1555	1875
		Connection - female thread	1 ¼"	1 ¼"
K	Stainless steel corrugated pipe, cold water	Height - mm	275	275
		Connection - female thread	1 ¼"	1 ¼"

s.Ø = see diameter without insulation

2.5 High-Performance Hygienic Layered Combination Storage Tank with Heat Exchanger EHSWP 800–950*



Application:	Fresh water storage tank for heat pumps, oil, gas, solid fuels, solar systems, and similar applications
Design:	Buffer tank made of high-quality S235JR steel per EN 10025, with a raw interior and a rust-protective coating on the exterior All 2" system connections are equipped with a laminar flow channel. This is optimized for high flow rates. Therefore, this tank is ideally suited for use with a heat pump. Thanks to the extremely generous surface area of the stainless steel corrugated pipe, very high draw-off rates are possible, with up to 55 liters continuously available. The installation of two electric heaters is only possible in the N+J connections. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 3 ½" sockets for sensors/thermometers.
heat exchanger:	**Solar** A permanently welded steel-tube heat exchanger **domestic water** Permanently welded stainless steel corrugated pipe
insulation:	Polyester fiber fleece with Skymantel Silver available from stock / White available upon request (2–3 business days) Insulation must always be ordered separately; other insulation types available upon request

* The model designation does not directly indicate the exact net capacity of the tank.

2.5 High-Performance Hygienic Layered Combination Storage Tank with Heat Exchanger EHSWP 800–950

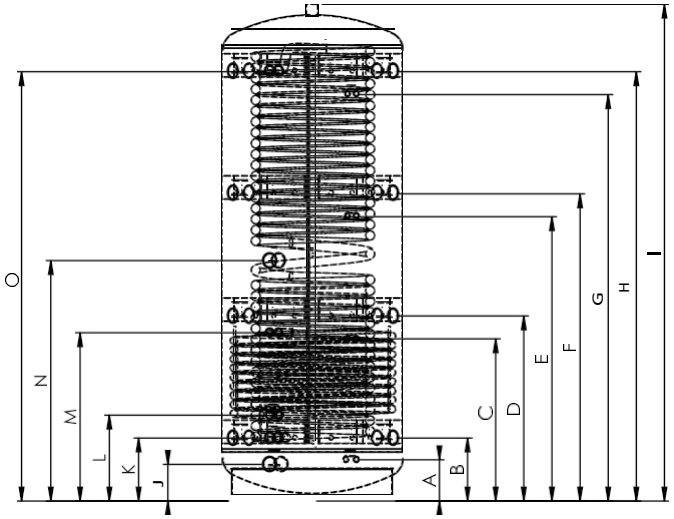
EHSWP	Unit	800	950
Net capacity	l	736	875
Ø without insulation	mm	790	790
Height without insulation	mm	1850	2170
tilt height	mm	1900	2210
Heating operating pressure	bar	4.5	4.5
Operating pressure for water and heat exchanger	bar	6.0	6.0
Max. operating temperature	°C	95	95
Weight	kg	183	212
Item No.		177800	177950
insulation		Polyester fiber fleece	
	mm	100	
Ø with insulation	mm	990	990
Height with insulation	mm	1900	2220
Weight	kg	12	14
Item No.		9724800	9724950
ErP Class		C	C
ErP Heat Loss	W	136	144
ErP-relevant content	l	802	956

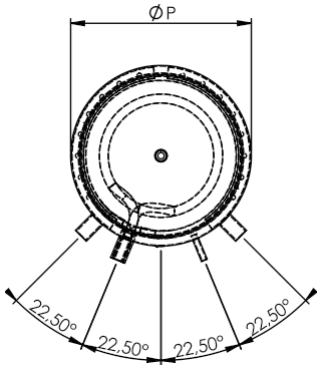
EHSWP	Unit	800		950	
Bottom-mounted	m²	1.5		1.8	
Capacity (bottom register)	l	10.5		12.6	
Pressure loss, bottom register	mbar	105		125	
Heating surface, stainless steel corrugated pipe	m²	11.0		13.5	
Volume of stainless steel corrugated pipe	l	55.0		67.5	
Pressure loss at 1,000 l/h	mbar	26		37	
Pressure drop at 3,000 l/h	mbar	254		360	
Buffer temperature	°C	50	80	50	80
Continuous hot water output* 10 °C / 45 °C (50% flow rate)	l/min	15.9	31	19.5	31
Continuous hot water output* 10 °C / 45 °C (100% flow rate)	l/min	31.6	60**	38.9	60**
Max. register capacity	kW	77	148	94	148

* Calculated value; the flow rate refers to the buffer tank.
** The flow rate must be limited to 60 L/min on site.
e.g., 50% fill rate at 50 °C -> 50% of the buffer tank's contents are heated to 50 °C, while the remaining tank temperature is heated to at least 40 °C

e.g., 100% heat transfer at 50 °C -> 100% of the buffer tank's contents are heated to 50 °C

2.5 High-Performance Hygienic Layered Combination Storage Tank with Heat Exchanger—Specification Sheet EHSWP 800–950





	Application	Dimensions	800	950
	Installation dimension: Sleeve length 100 mm	mm	800	800
I	Height	without insulation - mm	1850	2170
P	Diameter	without insulation - mm	790	790
B	Connection 1	Height - mm	275	275
		Connection - female thread	2"	2"
D	Connection 2	Height - mm	702	808
		Connection - female thread	2"	2"
F	Connection 3	Height - mm	1128	1342
		Connection - female thread	2"	2"
H	Connection 4	Height - mm	1555	1875
		Connection - female thread	2"	2"
C	Sensor 1	Height - mm	602	708
		Connection - female thread	½"	½"
E	Sensor 2	Height - mm	1028	1242
		Connection - female thread	½"	½"
G	Sensor 3	Height - mm	1455	1775
		Connection - female thread	½"	½"
A	drain	Height - mm	180	180
		Connection - female thread	½"	½"
I	Top connection	Height - mm	1850	2170
		Connection - female thread	1 ½"	1 ½"
N	E-socket	Height - mm	913	1050
		Connection - female thread	2"	2"
J	E-socket	Height - mm	160	160
		Connection - female thread	2"	2"
M	Flow register at the bottom	Height - mm	625	735
		Connection - female thread	1"	1"
L	RL Register at the bottom	Height - mm	375	375
		Connection - female thread	1"	1"
O	Stainless steel corrugated pipe for hot water	Height - mm	1555	1875
		Connection - female thread	1 ¼"	1 ¼"
K	Stainless steel corrugated pipe, cold water	Height - mm	275	275
		Connection - female thread	1 ¼"	1 ¼"

s.Ø = see diameter without insulation

3.1 Combi tank, without heat exchanger, with flange—enameled JHKE/F 600–1500*



Application:	Buffer tank with integrated domestic hot water tank for oil, gas, solid fuels, and similar fuels
Design:	Buffer tank made of S235JR high-quality steel in accordance with EN 10025; domestic hot water tank made of S275JR high-quality steel in accordance with EN 10025 All 1 ½" system connections are equipped with stratification baffles, which ensure optimized stratification. These can be bent out of the way if necessary, such as when installing electric heaters or diffusers. (Installation is only possible at levels E, F, and I) The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers.
Corrosion protection:	**Domestic hot water storage tank** Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection **Buffer** Uncoated interior, exterior with anti-corrosion coating
insulation:	100 mm polyester fiber fleece with SkyMantel Silver available from stock / White can be produced (2–3 business days) Insulation must always be ordered separately; other insulation types available upon request
Electric heating:	Flange-mounted heating available for every tank; screw-in heating always available (Connection I)
Scope of delivery:	1 thermometer (included) 1 magnesium anode (installed) 1 immersion sleeve (included)

* The model designation does not directly indicate the exact net capacity of the tank.

3.1 Combi tank, without heat exchanger, with flange—enameled JHKE/F 600–1500

JHKE/F	Unit	600	825	1000	1,500
Heating water capacity	l	407	527	706	1232
Domestic Water Volume	l	150	188	188	268
Ø without insulation	mm	700	790	790	1000
tilt height	mm	1760	1,800	2140	2325
Operating pressure for water	bar	6.0	6.0	6.0	6.0
Operating pressure of buffer tank	bar	3.0	3.0	3.0	3.0
Max. operating temperature	°C	95	95	95	95
Weight	kg	159	182	202	263
Item No.		159600	159825	1591000	1591500
insulation		Polyester fiber fleece			
	mm	100			130
Ø with insulation	mm	900	990	990	1260
Height with insulation	mm	1700	1,740	2090	2270
Weight	kg	12	14	16	21
Item No.		9704600	9704825	97041000	97041500
ErP Class		C	C	C	C
ErP Heat Loss	W	118	127	141	132
ErP-relevant content	l	560	718	887	1501

JHKE/F	Unit	600		825		1,000		1,500	
Buffer temperature	°C	55	80	55	80	55	80	55	80
Continuous hot water output at 10 °C / 45 °C	l/h	138	354	172	443	172	443	184	473
Max. surface area	kW	5.6	14.4	7.0	18.0	7.0	18.0	7.5	19.2

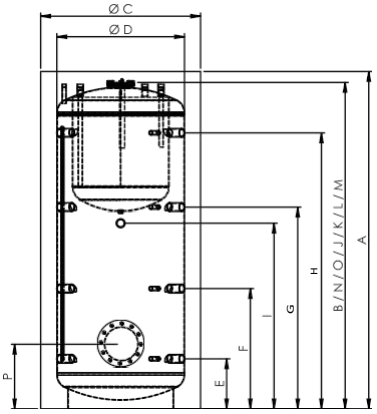
Installation options for flange heater:

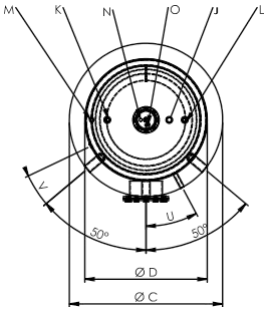
Part Number	Flange Heater		mm	600	825	1000	1500
957206	180-8	3 / 4 / 6 kW	380	*	*	*	*
957208	180-8	4 / 5 / 8 kW	420	*	*	*	*
957210	180-8	5 / 6.5 / 10 kW	510	*	*	*	*
957212[1]	180-8	12 kW	530	*	*	*	*
957215[1]	180-8	15 kW	630	*	*	*	*
957209[1]	290-12	9 kW	530	+	+	+	+
957224[1]	290-12	12 / 16 / 24 kW	530	+	+	+	+
957245[1]	290-12	25 / 30 / 45 kW	630	+	+	+	+

\+ = Installation possible
* = Installation possible only with an intermediate flange
[1] = An external contactor control must be provided by the customer for this purpose

3.1 Combi tank, without heat exchanger, with flange—enameled.

Specification sheet JHKE/F 600–1500





	Usage	Dimension	600	825	1000	1500
	Insertion dimension, sleeve length 100 mm	mm	740	800	800	(nominal Ø)
A	Height	with insulation - mm	1700	1740	2090	2270
B		without insulation - mm	1660	1690	2040	2170
C	Diameter	with insulation - mm	900	990	990	1260
D		without insulation - mm	700	790	790	1000
E	Connection 1	Height - mm	230	260	310	380
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½""
		Probe - IG	½"	½"	½"	½"
F	Connection 2	Height - mm	620	630	745	825
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"
G	Connection 3	Height - mm	1000	1030	1250	1350
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½""
		Probe - IG	½"	½"	½"	½"
H	Connection 4	Height - mm	1380	1430	1710	1760
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Probe - IG	½"	½"	½"	½"
I	Center Connection / ESH	Height - mm	825	800	1150	1250
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
J	hot water	Height - mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
K	cold water	Height – mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
L	circulation	Height - mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
M	air vent	Height - mm	1660	1690	2040	2170
		Connection - female thread	½"	½"	½"	½"
N	Domestic water sensor	Height - mm	1660	1690	2040	2170
		Connection - female thread	½"	½"	½"	½"
O	Magnesium anode	Height - mm	1660	1690	2040	2170
		Connection - Metric	M8	M8	M8	M8
P	flange	Height - mm	370	400	400	450
		Diameter - mm	220/290	220/290	220/290	220/290
V	Sensor Terminal Strip Position	°	16.4	14.5	14.5	11.5

s.Ø = see diameter without insulation

3.2 Combi tank, with heat exchanger—enameled JHKE 600–1500*



Application:	Buffer tank with integrated domestic hot water tank for oil, gas, solid fuels, solar, and similar systems
Design:	Buffer tank made of S235JR quality steel per EN 10025; domestic hot water tank made of S275JR quality steel per EN 10025 All 1 ½" system connections are equipped with stratification baffles, which ensure optimized stratification. An electric heater can only be installed in connection I. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers.
Corrosion protection:	**Domestic hot water storage tank** Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection **Buffer** Uncoated interior, exterior with anti-corrosion coating
heat exchanger:	a permanently welded steel-tube coil
insulation:	100 mm polyester fiber fleece with Skymantel Silver available from stock / White available upon request (2–3 business days) Insulation must always be ordered separately; other insulation types available upon request
Electric heating:	1 ½" electric heater available for every tank
Scope of delivery:	1 thermometer (included) 1 magnesium anode (installed) 1 immersion sleeve (included)

* The model designation does not directly indicate the exact net capacity of the tank.

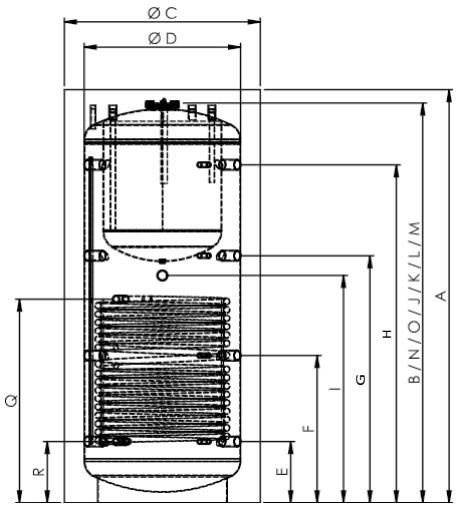
3.2 Combi Tank with Heat Exchanger—Enameled JHKE 600–1500

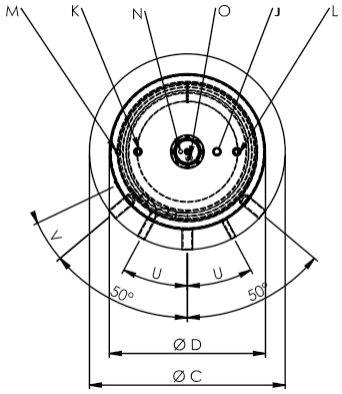
JHKE	Unit	600	825	1,000	1,500
Heating water capacity	l	395	511	685	1209
Domestic Water Volume	l	150	188	188	268
Ø without insulation	mm	700	790	790	1,000
tilt height	mm	1760	1,800	2140	2325
Operating pressure for water	bar	6.0	6.0	6.0	6.0
Operating pressure of buffer tank	bar	3.0	3.0	3.0	3.0
Operating pressure of heat exchanger	bar	10	10	10	10
Max. operating temperature	°C	95	95	95	95
Weight	kg	178	212	240	279
Item No.		160600	160825	1601000	1601500
insulation		Polyester fiber fleece			
	mm	100			130
Ø with insulation	mm	900	990	990	1260
Height with insulation	mm	1700	1,740	2090	2270
Weight	kg	12	14	16	21
Item No.		9704600	9704825	97041000	97041500
ErP Class		C	C	C	C
ErP Heat Loss	W	118	127	141	132
ErP-relevant content	l	560	718	887	1501

JHKE	Unit	600		825		1,000		1,500	
Bottom-mounted	m²	1.8		2.4		3.1		3.6	
Table of Contents	l	11.8		16.8		20.5		23.3	
Pressure loss in the register	mbar	74		132		274		318	
Buffer temperature	°C	55	80	55	80	55	80	55	80
Continuous hot water output 10 °C / 45 °C	l/h	138	354	172	443	172	443	184	473
Max. surface area	kW	5.6	14.4	7.0	18.0	7.0	18.0	7.5	19.2

3.2 Combi tank with heat exchanger—enameled.

Technical data sheet JHKE 600–1500





	Usage	Dimension	600	825	1000	1500
	Insertion dimension, sleeve length 100 mm	mm	740	800	800	(nominal Ø)
A	Height	with insulation - mm	1700	1740	2090	2270
B		without insulation - mm	1660	1690	2040	2170
C	Diameter	with insulation - mm	900	990	990	1260
D		without insulation - mm	700	790	790	1000
E	Connection 1	Height - mm	230	260	310	380
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
F	Connection 2	Height - mm	620	630	745	825
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
G	Connection 3	Height - mm	1000	1030	1250	1350
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
H	Connection 4	Height - mm	1380	1430	1710	1760
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
I	Center Connection / ESH	Height - mm	825	800	1150	1250
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
J	hot water	Height - mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
K	cold water	Height - mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
L	circulation	Height - mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
M	air vent	Height - mm	1660	1690	2040	2170
		Connection - female thread	½"	½"	½"	½"
N	Domestic water sensor	Height - mm	1660	1690	2040	2170
		Connection - female thread	½"	½"	½"	½"
O	Magnesium anode	Height - mm	1660	1660	2040	2170
		Connection - Metric	M8	M8	M8	M8
Q	Flow Register	Height - mm	770	730	1030	1180
		Connection - female thread	1"	1"	1"	1"
R	RL Register	Height - mm	230	260	310	380
		Connection - female thread	1"	1"	1"	1"
V	Position of sensor terminal strip	°	16.4	14.5	14.5	11.5

s.Ø = see diameter without insulation

3.3 Combi tank, with 2 heat exchangers—enameled

JHKE/R2 600–1500*



Application:	Buffer tank with integrated domestic hot water tank for oil, gas, solid fuels, solar, and similar systems
Design:	Buffer tank made of S235JR quality steel per EN 10025; domestic hot water tank made of S275JR quality steel per EN 10025 All 1 ½" system connections are equipped with stratification baffles, which ensure optimized stratification. An electric heater can only be installed in connection I. The tank is equipped with a sensor terminal strip for variable positioning of contact sensors. Additionally, there are 4 ½" sockets for sensors/thermometers.
Corrosion protection:	**Domestic hot water storage tank** Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection **Buffer** Uncoated interior, exterior with anti-corrosion coating
heat exchanger:	two permanently welded steel-tube coils
insulation:	100 mm polyester fiber fleece with Skymantel Silver available from stock / White can be produced (2–3 business days) Insulation must always be ordered separately; other insulation types available upon request
Electric heating:	1 ½" electric heater available for every tank
Scope of delivery:	1 thermometer (included) 1 magnesium anode (installed) 1 immersion sleeve (included)

* The model designation does not directly indicate the exact net capacity of the tank.

3.3 Combi tank, with 2 heat exchangers—enameled

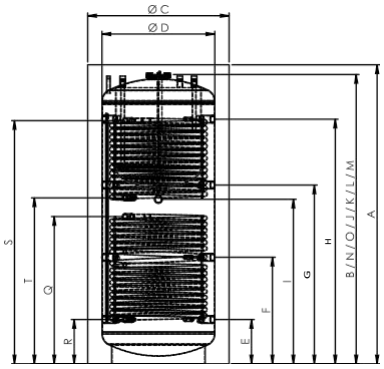
JHKE/R2 600–1500

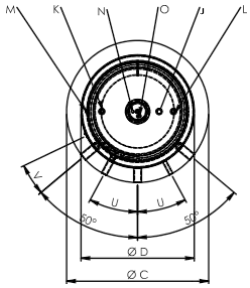
JHKE/R2	Unit	600	825	1000	1500
Heating water capacity	l	388	500	670	1,193
Domestic water volume	l	150	188	188	268
Ø without insulation	mm	700	790	790	1000
tilt height	mm	1760	1,800	2140	2325
Operating pressure for water	bar	6.0	6.0	6.0	6.0
Operating pressure of buffer tank	bar	3.0	3.0	3.0	3.0
Operating pressure of heat exchanger	bar	10	10	10	10
Max. operating temperature	°C	95	95	95	95
Weight	kg	199	243	283	316
Item No.		161600	161825	1611000	1611500
insulation		Polyester fiber fleece			
	mm	100			130
Ø with insulation	mm	900	990	990	1260
Height with insulation	mm	1700	1,740	2090	2270
Weight	kg	12	14	16	21
Item No.		9704600	9704825	97041000	97041500
ErP Class		C	C	C	C
ErP Heat Loss	W	118	127	141	132
ErP-Relevant Content	l	560	718	887	1501

JHKE/R2	Unit	600		825		1,000		1,500	
Top register	m²	1.2		1.8		2.4		2.4	
Table of Contents	l	8.1		11.8		16.8		16.8	
Pressure loss in the register	mbar	24		74		132		132	
Buffer temperature	°C	55	80	55	80	55	80	55	80
Continuous hot water output 10 °C / 45 °C	l/h	138	354	172	443	172	443	184	473
Max. surface area	kW	5.6	14.4	7.0	18.0	7.0	18.0	7.5	19.2
Bottom register	m²	1.8		2.4		3.1		3.6	
Table of Contents	l	11.8		16.8		20.5		23.3	
Pressure loss in the register	mbar	74		132		274		318	

3.3 Combi tank, with 2 heat exchangers—enameled.

Dimension sheet JHKE/R2 600–1500





	Usage	Dimension	600	825	1000	1500
	Insertion depth: Sleeve length 100 mm	mm	740	800	800	(nominal Ø)
A	Height	with insulation - mm	1700	1740	2090	2270
B		without insulation - mm	1660	1690	2040	2170
C	Diameter	with insulation - mm	900	990	990	1260
D		without insulation - mm	700	790	790	1000
E	Connection 1	Height - mm	230	260	310	380
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
F	Connection 2	Height - mm	620	630	745	825
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
G	Connection 3	Height - mm	1000	1030	1250	1350
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
H	Connection 4	Height - mm	1380	1430	1710	1760
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
		Sensor - IG	½"	½"	½"	½"
I	Center Connection / ESH	Height - mm	825	800	1150	1250
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"
J	hot water	Height – mm	1660	1690	2040	2150
		Connection - female thread	1"	1"	1"	1"
K	cold water	Height - mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
L	circulation	Height - mm	1660	1690	2040	2170
		Connection - female thread	1"	1"	1"	1"
M	air vent	Height - mm	1660	1690	2040	2170
		Connection - female thread	½"	½"	½"	½"
N	Domestic water sensor	Height - mm	1660	1690	2040	2170
		Connection - female thread	½"	½"	½"	½"
O	Magnesium anode	Height - mm	1660	1690	2040	2170
		Connection - Metric	M8	M8	M8	M8
Q	Flow Bottom Register	Height - mm	770	730	1030	1180
		Connection - female thread	1"	1"	1"	1"
R	RL Bottom Register	Height - mm	230	260	310	380
		Connection - female thread	1"	1"	1"	1"
S	flow Register Top	Height - mm	1380	1430	1700	1760
		Connection - female thread	1"	1"	1"	1"
T	RL Top Register	Height - mm	1020	1070	1160	1350
		Connection - female thread	1"	1"	1"	1"
V	Position of sensor terminal strip	°	16.4	14.5	14.5	11.5

s.Ø = see diameter without insulation


Unsere
5 years
Gewährleistung**
Zertifiziert nach
EN-12897
EU-Norm

4.1 ERSS Domestic Water Storage

Tanks ERSS 120–500*



Application:	Domestic water storage tanks for oil, gas, solids, solar, and similar applications
Model:	High-quality S275JR steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	Permanently welded steel tube coil (enameled on the outside)
insulation:	Types 120 + 140: 50 mm rigid PUR foam permanently bonded with Skymantel in silver or white Types 200 + 300: 60 mm rigid PUR foam permanently bonded with Skymantel in silver or white Type 200-A Class: 85 mm rigid PUR foam permanently encapsulated with Skymantel in silver or white Type 300-A Class: 100 mm rigid PUR foam permanently bonded with Skymantel in silver or white Type 400 + 500: 100 mm **removable** Neodul®insulation with a silver or white surface Type 400-PUR: 75 mm **non-removable** PUR rigid foam insulation with a silver or white surface Type 500-PUR: 60 mm **non-removable** PUR rigid foam insulation with a silver or white surface
Electric heating:	Flange heating available for every tank
What's Included:	1 thermometer, including immersion sleeve 1 magnesium anode (2 pieces for tanks 200 liters and larger)
Tests:	Certified for mechanical strength and stability according to EN 12897





* The model designation does not directly indicate the exact net capacity of the tank.
** The condition of the anode must be checked after 12 months. The anode must be replaced no later than 18 months after installation.

4.1 ERSS Domestic Water Storage Tank

ERSS 120–500

ERSS	Unit	120	140	200	200-A	300	300-A	400	400-PUR	500	500-PUR
Net content	l	114	130	197	205	309	292	405	405	514	514
Ø without insulation	mm	-	-	-	-	-	-	600	-	600	-
tilt height	mm	1261	1390	1312	1525	1725	1965	1810	2095	2020	2095
Operating pressure for water	bar	10	10	10	10	10	10	10	10	10	10
Operating pressure of the heating system	bar	16	16	16	16	16	16	16	16	16	16
Max. operating temperature	°C	95	95	95	95	95	95	95	95	95	95
Weight	kg	60	65	84	77	122	105	147	147	195	195
Item No.		822120	822140	822200	822202	822300	822302	822400	822401	822500	822501
insulation		Rigid PUR foam						Neodul®	PUR	Neodul®	PUR
	mm	50		60	85	60	100	100	75	100	60
Ø with insulation	mm	518	518	660	670	660	700	800	755	830	755
Height with insulation	mm	1150	1290	1110	1355	1590	1825	1770	1950	1970	1950
ErP Class		B	B	B	A	B	A	B	B	B	B
ErP Heat Loss	W	40	50	59	42	66	48	67	68	75	82
ErP-relevant content	l	114	130	197	205	322	292	420	420	523	523

ERSS	Unit	120	140	200	200-A	300	300-A	400	400-PUR	500	500-PUR
Register at the bottom	m²	1.0	1.0	1.4	0.8	1.4	1.4	1.8	1.8	2.0	2.0
Table of Contents	l	7	7	9.8	5.6	9.8	9.8	12.6	12.6	14	14
Flow rate	m³/h	1.3	1.3	1.8	2.4	1.8	1.8	2.4	2.4	2.5	2.5
Pressure loss	mbar	20	20	40	50	60	60	100	100	180	180
Continuous power 10 °C / 45 °C / **80 °C**	l/h	367	367	513	343	513	513	660	660	733	733
Max. register capacity*	kW	15.0	15.0	21.0	14	21.0	21.0	27.0	27.0	30.0	30.0
Performance metric	N_L	2	3	4	3	7	7	10	10	13	13

* For **80 °C** flow design

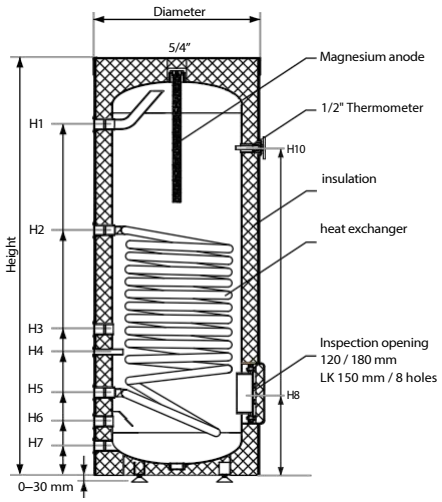
Installation options for flange-mounted heater:

Part No.	Flange Heater	mm	120	140	200	200-A	300	300-A	400	400-PUR	500	500-PUR
957206	180-8 3 / 4 / 6 kW	380	+	+	+	+	+	+	+	+	+	+
957208	180-8 4 / 5 / 8 kW	420	-	-	+	+	+	+	+	+	+	+
957210	180-8 5 / 6.5 / 10 kW	510	-	-	-	-	-	-	-	-	-	-
957212[1]	180-8 12 kW	530	-	-	-	-	-	-	-	-	-	-
957215[1]	180-8 15 kW	630	-	-	-	-	-	-	-	-	-	-
957209[1]	290-12 9 kW	530	-	-	-	-	-	-	-	-	-	-
957224[1]	290-12 12 / 16 / 24 kW	630	-	-	-	-	-	-	-	-	-	-
957245[1]	290-12 25 / 30 / 45 kW	630	-	-	-	-	-	-	-	-	-	-

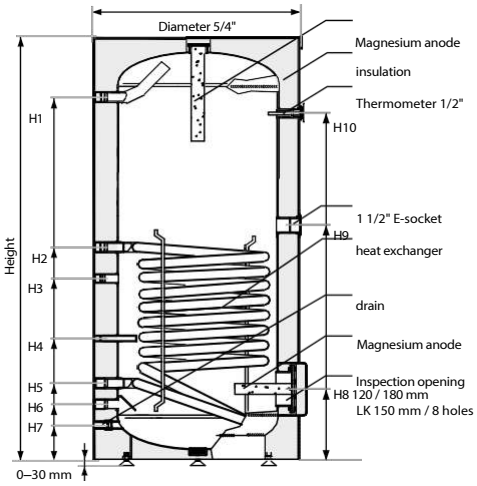
\+ = Installation possible
\- = Installation not possible
[1] = An external contactor control must be provided by the customer for this purpose

4.1 ERSS Domestic Water Storage Tank

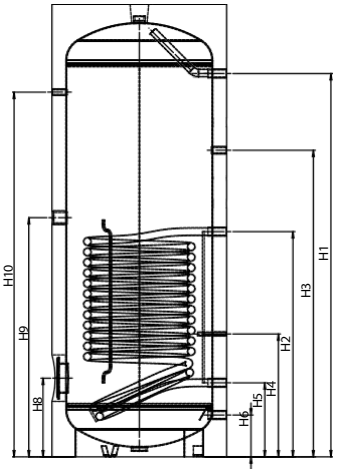
Dimension sheet ERSS 120–500



ERSS 120–140



ERSS 200, 200-A, 300, 400, 400-PUR



ERSS 300-A, 500, 500-PUR

	Application	Dimension	120	140	200	200-A	300	300-A	400	400-PUR	500	500-PUR
	Height	with insulation - mm	1150	1290	1110	1355	1590	1825	1770	1770	1970	1970
		without insulation - mm	-	-	-	-	-	-	1670	1670	1850	1850
	Diameter	with insulation - mm	518	518	660	670	660	700	800	750	830	750
		without insulation - mm	-	-	-	-	-	-	600	600	630	630
H1	hot water	Height - mm	920	1070	860	1,040	1354	1,495	1467	1467	1650	1650
		Connection - female thread	¾"	¾"	1"	1"	1"	1"	1"	1"	1"	1"
H2	Flow Register	Height - mm	750	750	790	600	737	775	867	867	970	970
		Connection - female thread	¾"	¾"	1"	1"	1"	1"	1"	1"	1"	1"
H3	circulation	Height - mm	450	450	680	500	637	1,140	767	767	1,320	1,320
		Connection - female thread	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
H4	Guide sleeve	Height - mm	375	375	435	340	432	470	567	567	530	530
		Size - mm	11	11	11	11	11	11	11	11	11	11
H5	RL Register	Height - mm	250	250	290	240	267	225	317	317	320	320
		Connection - female thread	¾"	¾"	1"	1"	1"	1"	1"	1"	1"	1"
H6	cold water	Height - mm	165	165	210	150	130	135	237	237	180	180
		Connection - female thread	¾"	¾"	1"	1"	1"	1"	1"	1"	1"	1"
H7	drain	Height - mm	85	85	130	not available	not available	not available	157	157	not available	not available
		Connection - female thread	¾"	¾"	1"				1"	1"		
H8	Inspection opening	Height - mm	250	250	290	320	337	305	317	317	329	329
		Connection - Flange mm	120/180	120/180	120/180	120/180	120/180	120/180	120/180	120/180	120/180	120/180
H9	electric heater	Height - mm	-	-	540	655	805	835	922	922	1030	1030
		Connection - female thread	-	-	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
H10	Thermometer	Height - mm	855	1005	795	1020	1222	1475	1407	1407	1570	1570
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"	½"	½"	½"
	Magnesium anode	Height - mm	1120	1270	1100	1355	1590	1825	1770	1770	1970	1970
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"

4.2 Performance Table for ERSS 120–500

Type	heat exchanger m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Capacity (10–45 °C)	Peak output at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
ERSS 120	1.0	50	119	263	173	7.1	-	-	-	-			
		60	126	306	216	8.8	-	-	-	-			
		70	137	371	281	11.5	133	349	259	10.6			
		80	151	457	367	15.0	140	457	302	12.4	1.3	20	2
ERSS 140	1.0	50	134	278	173	7.1	-	-	-	-			
		60	141	321	216	8.8	-	-	-	-			
		70	152	386	281	11.5	148	364	259	10.6			
		80	166	472	367	15.0	155	407	302	12	1.3	20	2
ERSS 200	1.4	50	190	392	242	9.9	-	-	-	-	-		
		60	200	452	302	12.4	-	-	-	-	-		
		70	216	543	393	16.0	210	512	362	14.8			
		80	236	663	513	21.0	221	573	423	17.3	1.8	40	3
ERSS 200-A	0.8	50	177	291	137	5.6	-	-	-	-	-		
		60	188	359	206	8.4	-	-	-	-	-		
		70	199	428	274	11.2	180	310	156	9.1			
		80	211	497	343	14.0	188	358	204	11.9	2.4	50	3
ERSS 300	1.4	50	265	467	242	9.9	-	-	-	-	-		
		60	275	527	302	12.4	-	-	-	-	-		
		70	291	618	393	16.0	285	587	362	14.8			
		80	311	738	513	21.0	296	648	423	17.3	2.2	60	7
ERSS 300-A	1.4	50	265	467	242	9.9	-	-	-	-	-		
		60	275	527	302	12.4	-	-	-	-	-		
		70	291	618	393	16.0	285	587	362	14.8			
		80	311	738	513	21.0	296	648	423	17.3	2.2	60	7
ERSS 400	1.8	50	352	611	311	12.7	-	-	-	-	-		
		60	365	688	388	15.9	-	-	-	-	-		
		70	384	805	505	20.7	378	766	466	19.1			
		80	410	960	660	27.0	391	844	544	22.2	2.5	100	10
ERSS 400-PUR	1.8	50	352	611	311	12.7	-	-	-	-	-		
		60	365	688	388	15.9	-	-	-	-	-		
		70	384	805	505	20.7	378	766	466	19.1			
		80	410	960	660	27.0	391	844	544	22.2	2.5	100	10
ERSS 500	2.0	50	433	720	345	14.1	-	-	-	-	-		
		60	447	807	432	17.6	-	-	-	-	-		
		70	469	936	561	22.9	461	893	518	21.2			
		80	497	1,108	733	30.0	476	979	604	24.7	3.3	180	13
ERSS 500-PUR	2.0	50	433	720	345	14.1	-	-	-	-	-		
		60	447	807	432	17.6	-	-	-	-	-		
		70	469	936	561	22.9	461	893	518	21.2			
		80	497	1,108	733	30.0	476	979	604	24.7	3.3	180	13

4.3 Domestic Water Storage Tank ERSS

HR ERSS HR 160–500*



Application:	Domestic hot water storage tanks for oil, gas, solids, solar, and similar applications
Type:	High-quality S275JR steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	Permanently welded steel tube coil (enameled on the outside)
insulation:	Directly foamed, non-removable PUR rigid foam insulation
Electric heating:	Flange heating available for every tank
What's Included:	1 thermometer, including immersion sleeve 1 magnesium anode (2 pieces for tanks 200 liters and larger)
Tests:	Designed for mechanical strength and stability in accordance with EN 12897

Unsr re 5 years Gewährleistung**

* The model designation does not directly indicate the exact net capacity of the tank.
** The condition of the anode must be checked after 12 months. The anode must be replaced no later than 18 months after installation.

4.3 Domestic hot water storage tank ERSS HR

ERSS HR 160–500

ERSS HR	Unit	160	200	300	400	500
Net volume	l	160	193	297	386	484
tilt height	mm	1145	1350	1760	1900	2095
Operating pressure for water	bar	10	10	10	10	10
Operating pressure of the heating system	bar	16	16	16	16	16
Max. operating temperature	°C	95	95	95	95	95
Weight	kg	76	95	125	185	235
Item No.		824160	824200	824300	824400	824500
insulation		Rigid PUR foam				
	mm	55	55	55	75	60
Ø with insulation	mm	670	670	670	755	755
Height with insulation	mm	920	1140	1615	1750	1950
ErP Class		B	B	B	B	B
ErP Heat Loss	W	57	60	65	68	82
ErP-relevant content	l	160	193	297	386	484

ERSS HR	Unit	160	200	300	400	500
Register at the bottom	m²	1.4	2.0	2.7	3.8	4.3
Table of Contents	l	9.8	14.4	18.9	26.5	30.5
Flow rate	m³/h	1.1	1.6	2.1	3.0	3.4
Pressure loss	mbar	70	105	135	190	220
Continuous power 10 °C / 45 °C / **50 °C**	l/h	94	134	181	254	287
Max. register capacity*	kW	4.0	5.0	7.0	10.0	11.0
Performance metric	N_L	1.0	2.0	3.0	4.0	5.0
Flow rate *	m³/h	2.0	2.9	3.9	5.4	6.1
Pressure loss *	mbar	125	180	250	350	420
Continuous power * 10 °C / 45 °C / **80 °C**	l/h	570	814	1099	1547	1,751
Max. register capacity *	kW	23.3	33.3	44.9	63.2	71.5
Performance metric *	N_L	4.0	6.0	7.0	13.0	20.0

* For **80 °C** flow design

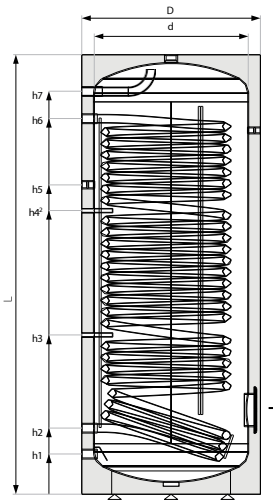
Installation options for flange-mounted heater:

Part No.	Flange heater	mm	160	200	300	400	500
957206	180-8 3 / 4 / 6 kW	380	+	+	+	+	+
957208	180-8 4 / 5 / 8 kW	420	-	+	+	+	+
957210	180-8 5 / 6.5 / 10 kW	510	-	-	-	-	-
957212[1]	180-8 12 kW	530	-	-	-	-	-
957215[1]	180-8 15 kW	630	-	-	-	-	-
957209[1]	290-12 9 kW	530	-	-	-	-	-
957224[1]	290-12 12 / 16 / 24 kW	630	-	-	-	-	-
957245[1]	290-12 25 / 30 / 45 kW	630	-	-	-	-	-

\+ = Installation possible
\- = Installation not possible
[1] = An external contactor control must be provided by the customer for this purpose

4.3 ERSS HR Domestic Hot Water Storage Tank

Dimension Sheet ERSS HR 160–500



Inspection opening 120 / 180 mm
LK 150 mm / 8 holes

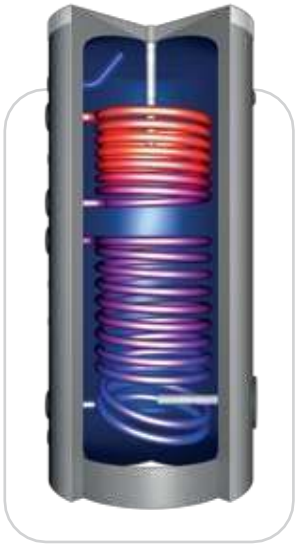
	Application	Dimension	160	200	300	400	500
L	Height	with insulation - mm	920	1140	1615	1750	1950
D	Diameter	with insulation - mm	670	670	670	755	755
d		without insulation - mm	550	550	550	600	630
			Non-removable PUR rigid foam insulation				
H7	hot water	Height - mm	760	975	1355	1555	1735
		Connection - female thread	1"	1"	1"	1"	1"
H6	Flow Register	Height - mm	685	900	1250	1,450	1615
		Connection - female thread	1"	1"	1"	1"	1"
H5	circulation	Height - mm	555	555	650	1195	1370
		Connection - female thread	¾"	¾"	¾"	¾"	¾"
H4	Guide sleeve 1	Height - mm	Not available			1095	1260
		Size - mm	11	11	11	11	11
H3	Guide sleeve 2	Height - mm	370	370	435	615	560
		Size - mm	11	11	11	11	11
H2	RL Register	Height - mm	205	205	205	255	280
		Connection - female thread	1"	1"	1"	1"	1"
H1	cold water	Height - mm	130	130	130	155	180
		Connection - female thread	1"	1"	1"	1"	1"
	Inspection opening	Height - mm	290	290	290	325	340
		Connection - Flange mm	120/180	120/180	120/180	120/180	120/180
	Thermometer	Height - mm	610	825	1295	1,405	1570
		Connection - female thread	½"	½"	½"	½"	½"
	Magnesium anode	Height - mm	920	1140	1615	1750	1950
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"

4.4 Performance Table for ERSS HR 160–500

Type	heat exchanger m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Capacity (10–45 °C)	Peak output at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
ERSS HR 160	1.4	50*	136	214	94	3.8					1.1	70	1
		50	160	360	240	9.8	-	-	-	-			
		60	175	450	330	13.5	-	-	-	-			
		70	195	570	450	18.4	162	372	252	14.7			
		80	215	690	570	23.3	176	456	336	19.6	2.0	125	4
ERSS HR 200	2.0	50*	167	278	134	5.5					1.6	105	2
		50	202	488	343	14.0	-	-	-	-			
		60	223	616	471	19.3	-	-	-	-			
		70	252	788	643	26.3	205	505	360	21			
		80	280	959	814	33.3	225	625	480	28.0	2.9	180	6
ERSS HR 300	2.7	50*	253	403	181	7.4					2.1	135	3
		50	300	686	463	19.0	-	-	-	-			
		60	329	859	636	26.0	-	-	-	-			
		70	367	1,091	868	35.5	304	709	486	28.4			
		80	406	1,322	1,099	44.9	331	871	648	37.8	3.9	250	7
ERSS HR 400	3.8	50*	332	544	254	10.4					3.0	190	4
		50	398	941	651	26.6	-	-	-	-			
		60	439	1,185	896	36.6	-	-	-	-			
		70	493	1,511	1,221	50.0	404	974	684	40.0			
		80	547	1,837	1,547	63.2	442	1,202	912	53.2	5.4	350	13
ERSS HR 500	4.3	50*	411	650	287	11.8					3.4	220	5
		50	486	1,100	737	30.1	-	-	-	-			
		60	532	1,377	1,014	41.4	-	-	-	-			
		70	593	1,745	1,382	56.5	492	1,137	774	45.2			
		80	655	2,114	1,751	71.5	535	1,395	1,032	60.2	6.1	420	20

4.5 Domestic Water Storage Tank

ESRS ESRS 200–500*



Application:	Domestic water storage tanks for oil, gas, solids, solar, and similar applications
Model:	High-quality S275JR steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	two permanently welded steel tube coils (enameled on the outside)
insulation:	Type 120 + 140: 50 mm rigid PUR foam permanently bonded with Skymantel in silver or white Type 200 + 300: 60 mm rigid PUR foam permanently bonded with Skymantel in silver or white Type 200-A Class: 85 mm rigid PUR foam permanently encapsulated with Skymantel in silver or white Type 300-A Class: 100 mm rigid PUR foam permanently bonded with Skymantel in silver or white Type 400 + 500: 100 mm **removable** Neodul®insulation with a silver or white surface Type 400-PUR: 75 mm **non-removable** PUR rigid foam insulation with a silver or white surface Type 500-PUR: 60 mm **non-removable** PUR rigid foam insulation with a silver or white surface
Electric heating:	Flange-mounted heating available for every tank
Scope of delivery:	1 thermometer, including immersion sleeve 1 magnesium anode (2 pieces for tanks 200 liters and larger)
Tests:	Certified for mechanical strength and stability according to EN 12897





* The model designation does not directly indicate the exact net capacity of the tank.
** The condition of the anode must be checked after 12 months. The anode must be replaced no later than 18 months after installation.

4.5 ESRS Domestic Water Storage Tank

ESRS 200–500

ESRS	Unit	200	200-A	300	300-A	400	400-PUR	500	500-PUR
Net content	l	197	199	299	286	395	395	496	496
Ø without insulation	mm	-	-	-	-	600	-	600	-
tilt height	mm	1338	1525	1725	1965	1810	2095	2020	2095
Operating pressure for water	bar	10	10	10	10	10	10	10	10
Operating pressure of the heating system	bar	16	16	16	16	16	16	16	16
Max. operating temperature	°C	95	95	95	95	95	95	95	95
Weight	kg	98	86	133	118	162	162	215	215
Item No.		823200	823202	823300	823302	823400	823401	823500	823501
insulation		Rigid PUR Foam				Neodul®	PUR	Neodul®	PUR
	mm	60	85	60	100	100	75	100	60
Ø with insulation	mm	660	670	660	700	800	755	830	755
Height with insulation	mm	1140	1,355	1590	1825	1770	1950	1970	1950
ErP Class		B	A	B	A	B	B	B	B
ErP Heat Loss	W	59	42	66	48	67	68	75	82
ErP-relevant content	l	197	205	322	292	420	420	523	523
ErP Vbu	l	99	84	117	142	147	147	183	183

ESRS	Unit	200	200-A	300	300-A	400	400-PUR	500	500-PUR
Top register	m²	0.7	0.6	1.1	0.8	1.1	1.1	1.1	1.1
Table of Contents	l	4.9	4.2	7.7	5.6	7.7	7.7	7.7	7.7
Flow rate	m³/h	1.0	1.8	1.3	2.4	1.3	1.3	1.3	1.3
Pressure drop	mbar	25	35	35	50	40	40	40	40
Continuous power 10 °C / 45 °C / **80 °C**	l/h	257	257	403	343	403	403	403	403
Max. register capacity*	kW	10.5	10.5	16.5	14	16.5	16.5	16.5	16.5
Performance metric	N_L	1	1	3	2	4	4	5	5
Register at the bottom	m²	1.0	0.8	1.4	1.4	1.8	1.8	2.0	2.0
Table of Contents	l	7.0	5.6	9.8	9.8	12.6	12.6	14.0	14.0
Flow rate	m³/h	1.3	2.4	1.8	2.0	2.3	2.3	2.6	2.6
Pressure drop	mbar	45	50	50	50	110	110	200	200
Continuous power 10 °C / 45 °C / **80 °C**	l/h	366	343	513	513	659	659	733	733
Max. register capacity*	kW	15.0	14.0	21.0	21.0	27.0	27.0	30.0	30.0
Performance metric	N_L	4	3	7	7	10	10	13	13

* For **80 °C** flow design

Installation options for flange-mounted heater:

Part No.	Flange Heater	mm	200	200-A	300	300-A	400	400-PUR	500	500-PUR
957206	180-8 3 / 4 / 6 kW	380	+	+	+	+	+	+	+	+
957208	180-8 4 / 5 / 8 kW	420	+	+	+	+	+	+	+	+
957210	180-8 5 / 6.5 / 10 kW	510	-	-	-	-	-	-	-	-
957212[1]	180-8 12 kW	530	-	-	-	-	-	-	-	-
957215[1]	180-8 15 kW	630	-	-	-	-	-	-	-	-
957209[1]	290-12 9 kW	530	-	-	-	-	-	-	-	-
957224[1]	290-12 12 / 16 / 24 kW	630	-	-	-	-	-	-	-	-
957245[1]	290-12 25 / 30 / 45 kW	630	-	-	-	-	-	-	-	-

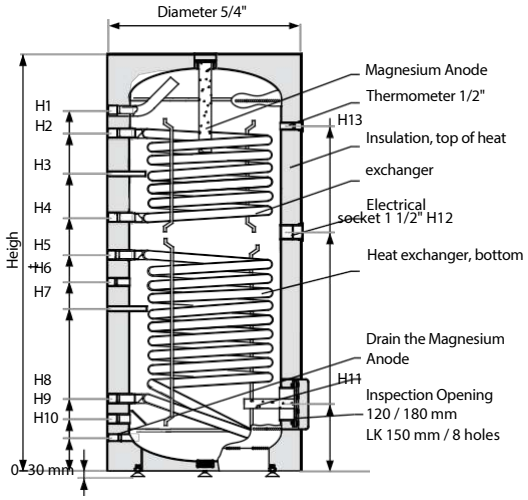
\+ = Installation possible

\- = Installation not possible

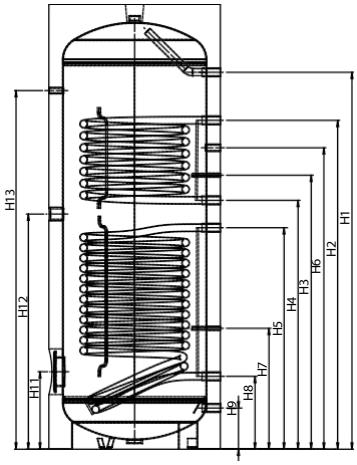
[1] = An external contactor control must be provided by the customer for this purpose

4.5 Domestic Hot Water Storage Tank ESRS

Dimension Sheet ESRS 200–500



ESRS 200, 200-A, 300, 400, 400-PUR



ESRS 300-A, 500, 500-PUR

	Application	Dimension	200	200-A	300	300-A	400	400-PUR	500	500-PUR
	Height	with insulation - mm	1140	1355	1590	1825	1770	1750	1970	1950
		without insulation - mm	-	-	-	-	1670	-	1850	-
	Diameter	with insulation - mm	670	670	670	700	800	750	830	750
		without insulation - mm	-	-	-	-	600	600	630	630
H1	hot water	Height - mm	975	1025	1354	1495	1467	1467	1650	1650
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"
H2	flow Top Register	Height - mm	895	945	1187	1255	1327	1327	1439	1439
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"
H3	Sensor sleeve, register top	Height - mm	765	820	1017	1030	1152	1152	1200	1200
		Size - mm	11	11	11	11	11	11	11	11
H4	RL Top Register	Height - mm	635	695	847	895	977	977	1,090	1,090
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"
H5	Flow Bottom Register	Height - mm	550	585	737	775	867	867	970	970
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"
H6	circulation	Height - mm	450	485	637	1140	767	767	1,320	1,320
		Connection - female thread	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
H7	Sensor Sleeve, Lower Register	Height - mm	355	325	432	470	567	567	530	530
		Size - mm	11	11	11	11	11	11	11	11
H8	RL Bottom Register	Height - mm	210	225	267	225	317	317	320	320
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"
H9	cold water	Height - mm	130	140	180	135	237	237	180	180
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"	1"
H10	drain	Height - mm	-	-	-	-	157	157	-	-
		Connection - female thread	-	-	-	-	1"	1"	-	-
H11	Inspection opening	Height - mm	290	305	337	305	317	317	329	339
		Ø - mm	120/180	120/180	120/180	120/180	120/180	120/180	120/180	120/180
H12	electric heater	Height - mm	630	640	805	835	922	922	1030	1030
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
H13	Thermometer	Height - mm	825	1005	1222	1475	1407	1407	1570	1570
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"	½"
	Magnesium anodes	Height - mm	1140	1355	1590	1825	1770	1770	1950	1950
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"

4.6 Performance Table for ESRS 200–300

Type	heat exchanger m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Capacity (10–45 °C)	Peak output at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
ESRS 200	Top	50	100	201	121	5.0					-		
	0.7	60	105	231	151	6.2					-		
		70	118	307	227	9.3	124	261	181	7.0			
		80	123	337	257	10.5	129	291	211	9.0	1.2	25	1
	below	50	179	323	173	7.1					-		
	1.0	60	186	366	216	8.8					-		
		70	204	474	324	13.2	218	409	259	10.6			
		80	211	516	366	15.0	225	451	301	12.3	1.8	45	4
ESRS 200-A	Top	50	97	183	103	4.2					-		
	0.7	60	105	230	150	6.3					-		
		70	114	286	206	8.4	113	200	120	6.7			
		80	123	337	257	10.5	119	233	153	9.0	1.8	35	1
	below	50	172	286	137	5.6	-	-	-	-	-		
	1.0	60	184	355	206	8.4	-	-	-	-	-		
		70	195	424	274	11.2	175	305	156	9.1	-		
		80	206	492	343	14.0	183	353	204	11.9	2.4	50	3
ESRS 300	Top	50	152	310	190	7.8					-		
	1.1	60	160	357	237	9.7					-		
		70	179	476	356	14.6	188	405	285	11.6			
		80	187	523	403	16.5	194	442	322	13.6	1.4	35	3
	below	50	265	467	242	9.9					-		
	1.4	60	275	526	301	12.4					-		
		70	301	678	453	18.5	323	587	362	14.8			
		80	311	738	513	21.0	333	648	423	17.3	2.0	50	7
ESRS 300-A	Top	50	152	310	190	7.8					-		
	1.1	60	160	357	237	9.7					-		
		70	179	476	356	14.6	173	318	198	11.6			
		80	187	523	403	16.5	179	351	231	13.6	1.4	35	3
	below	50	265	467	242	9.9					-		
	1.4	60	275	526	301	12.4					-		
		70	301	678	453	18.5	305	477	252	14.8			
		80	311	738	513	21.0	312	519	294	17.3	2.0	50	7

4.6 Performance Table for ESRS 400–500

Type	heat exchanger m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Capacity (10–45 °C)	Peak flow rate at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
ESRS 400	Top	50	192	350	190	7.8					-		
	1.1	60	200	397	237	9.7					-		
		70	219	516	356	14.6	234	445	285	11.6			
		80	227	563	403	16.5	242	492	332	13.6	1.3	40	4
	below	50	352	611	311	12.7					-		
	1.8	60	365	688	388	15.9					-		
		70	397	882	582	23.8	428	766	466	19.0			
		80	410	959	659	27.0	441	844	544	22.2	2.5	110	10
ESRS 400–PUR	Top	50	192	350	190	7.8					-		
	1.1	60	200	397	237	9.7					-		
		70	219	516	356	14.6	234	445	285	11.6			
		80	227	563	403	16.5	242	492	332	13.6	1.3	40	4
	below	50	352	611	311	12.7					-		
	1.8	60	365	688	388	15.9					-		
		70	397	882	582	23.8	428	766	466	19.0			
		80	410	959	659	27.0	441	844	544	22.2	2.5	110	10
ESRS 500	Top	50	232	390	190	7.8					-		
	1.1	60	240	437	237	9.7					-		
		70	259	556	356	14.6	281	485	285	11.6			
		80	267	603	403	16.5	289	532	332	13.6	1.3	40	5
	below	50	433	720	345	14.0					-		
	2.0	60	447	806	431	17.6					-		
		70	483	1,021	646	26.4	524	892	517	21.2			
		80	497	1,108	733	30.0	538	978	603	24.7	3.3	200	13
ESRS 500	Top	50	232	390	190	7.8					-		
	1.1	60	240	437	237	9.7					-		
		70	259	556	356	14.6	281	485	285	11.6			
		80	267	603	403	16.5	289	532	332	13.6	1.3	40	5
	below	50	433	720	345	14.0					-		
	2.0	60	447	806	431	17.6					-		
		70	483	1,021	646	26.4	524	892	517	21.2			
		80	497	1,108	733	30.0	538	978	603	24.7	3.3	200	13

4.7 EHRE EHRE 120–150*Domestic Water Storage Tank



Application:	Under-counter domestic hot water storage tank for gas water heaters
Model:	High-quality S275JR steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	Permanently welded steel tube coil (enameled on the outside)
insulation:	50 mm PUR rigid foam permanently bonded with a Skymantel cover in silver or white
Electric heating:	Flange heating available for every tank
What's Included:	1 thermometer, including immersion sleeve 1 magnesium anode Immersion sleeve, 600 mm long, pre-sealed
Tests:	Certified for mechanical strength and stability according to EN 12897





* The model designation does not directly indicate the exact net capacity of the tank.
** The condition of the anode must be checked after 12 months. The anode must be replaced no later than 18 months after installation.

4.7 EHRE Domestic Hot Water Storage Tanks

EHRE 120–150

EHRE	Unit	120	150
Net content	l	125	152
tilt height	mm	1070	1196
Operating pressure for water	bar	10	10
Heating operating pressure	bar	16	16
Max. operating temperature	°C	95	95
Weight	kg	77	89
Item No.		821120	821150
insulation		50 mm PUR rigid foam, permanently foamed in place	
Ø with insulation	mm	600	600
Height with insulation	mm	885	1035
ErP Class		B	B
ErP Heat Loss	W	48	51
ErP-relevant content	l	123	149

EHRE	Unit	120	150
Register	m²	0.8	1.2
Index Volume	l	5.6	8.4
Flow Rate	m³/h	0.9	0.9
Pressure drop	mbar	20	30
Continuous power 10 °C / 45 °C / **80 °C**	l/h	326	437
Max. coil capacity*	kW	13.3	17.9
Performance Index	N_L	2	3

* Designed for **80 °C** flow temperature

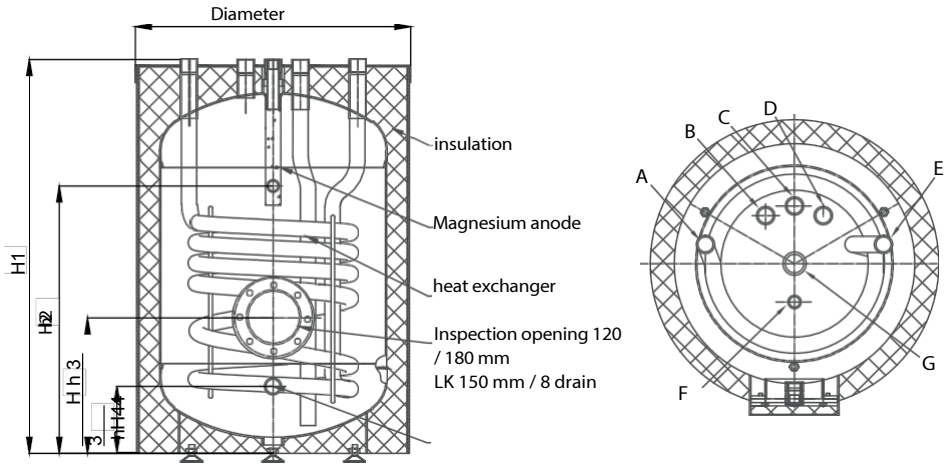
Installation options for flange-mounted heater:

Part No.	Flange Heater		mm	120	150
957206	180-8	3 / 4 / 6 kW	380	+	+
957208	180-8	4 / 5 / 8 kW	420	-	-
957210	180-8	5 / 6.5 / 10 kW	510	-	-
957212[1]	180-8	12 kW	530	-	-
957215[1]	180-8	15 kW	630	-	-
957209[1]	290-12	9 kW	530	-	-
957224[1]	290-12	12 / 16 / 24 kW	630	-	-
957245[1]	290-12	25 / 30 / 45 kW	630	-	-

\+ = Installation possible
\- = Installation not possible
[1] = An external contactor control must be provided by the customer for this purpose

4.7 EHRE Domestic Water Storage Tank

Dimension Sheet EHRE 120–150



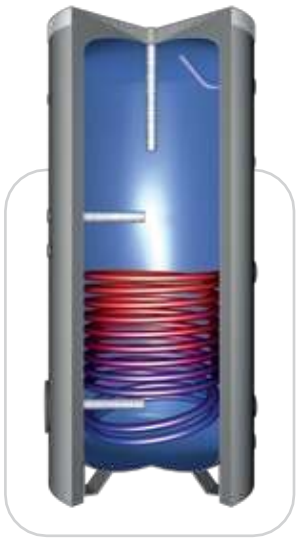
	Usage	Dimension	120	150
H1	Height	with insulation - mm	885	1035
	Diameter	with insulation - mm	600	600
D	cold water	Height - mm	865	1015
		Connection - Female Thread	1"	1"
B	hot water	Height - mm	865	1015
		Connection - Female Thread	1"	1"
C	circulation	Height - mm	865	1015
		Connection - Female Thread	1"	1"
H3	Bottom Flange	Height - mm	298	298
		Ø - mm	120/180	120/180
A	Flow Register	Height - mm	865	1015
		Connection - Female Thread	1"	1"
E	RL Register	Height - mm	865	1015
		Connection - Female Thread	1"	1"
H2	Thermometer	Height - mm	588	738
		Connection - Female Thread	½"	½"
F	Sensor sleeve	Height - mm	865	1015
		Connection - Female Thread	½"	½"
G	Magnesium anode	Height - mm	865	1015
		Connection - Female Thread	1 ¼"	1 ¼"
H4	drain	Height - mm	145	145
		Connection - Female Thread	¾"	¾"

4.8 Performance Table for EHRE 120–150

Type	heat exchanger m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Capacity (10–45 °C)	Peak performance at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
EHRE 120	0.8	50	113	228	138	5.6	-	-	-	-			
		60	119	262	172	7.0	-	-	-	-			
		70	133	348	258	10.5	114	234	144	8.4			
		80	144	416	326	13.3	118	258	168	9.8	1.2	20	2
EHRE 150	1.2	50	147	319	206	8.4	-	-	-	-			
		60	156	371	258	10.5	-	-	-	-			
		70	177	499	386	15.8	149	329	216	12.6			
		80	185	550	437	17.9	155	365	252	15	1.4	30	3

5.1 Enameled Large Storage Tank HRSS

HRSS 750–1000*



Application:	Domestic water storage tank for oil, gas, solids, and similar substances
Model:	S275JR high-quality steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	Permanently welded steel tube coil (enameled on the outside)
insulation:	100 mm polyester fiber fleece with Skymantel in silver or white (assembled up to and including Type 1000)
Electric heating:	Flange-mounted heating available for every tank; screw-in heating available for every tank
Scope of delivery:	3 magnesium anodes
Tests:	Mechanical strength and stability according to EN 12897

* The model number does not directly indicate the exact net capacity of the tank.

5.1 Enameled Large Storage Tank

HRSS HRSS 750 - 1000

HRSS	Unit	750	1000
Net capacity	l	749	869
Ø without insulation	mm	790	790
tilt height	mm	1890	2135
Heating operating pressure	bar	10	10
Operating pressure (water)	bar	10	10
Max. operating temperature of water	°C	95	95
Max. operating temperature of the heat exchanger	°C	110	110
Weight	kg	205	225
Item No.		162750	1621000
insulation		Polyester fiber fleece	
	mm	100	
Ø with insulation	mm	990	990
Height with insulation	mm	1880	2095
Weight	kg	15	17
Item No.		9713750	97131000
ErP Class		C	C
ErP Heat Loss	W	113	142
ErP-relevant content	l	765	885

HRSS	Unit	750	1,000
Bottom-mounted	m²	2.5	2.5
Register capacity	l	15.9	15.9
Flow Rate	m³/h	3.2	3.2
Pressure drop	mbar	230	230
Continuous power 10 °C / 45 °C / **80 °C**	l/h	916	916
Max. coil capacity*	kW	38.0	38.0
Performance Index	N_L	22	26

* Designed for **80 °C** flow temperature

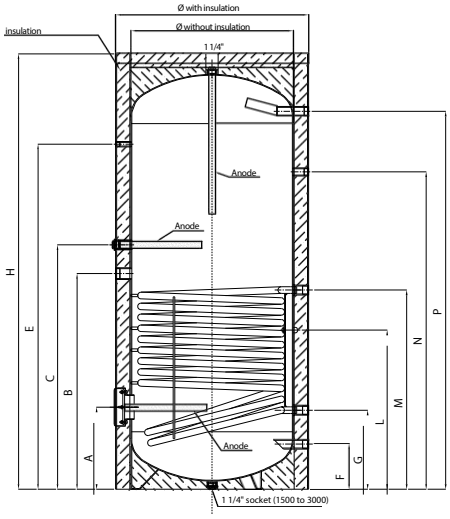
Installation options for flange-mounted heater:

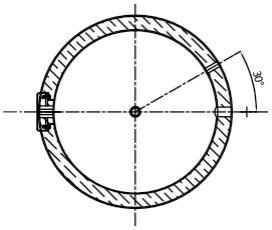
Part No.	Flange heater		mm	750	1000
957206	180-8	3 / 4 / 6 kW	380	+	+
957208	180-8	4 / 5 / 8 kW	420	+	+
957210	180-8	5 / 6.5 / 10 kW	510	+	+
957212[1]	180-8	12 kW	530	+	+
957215[1]	180-8	15 kW	630	+	+
957209[1]	290-12	9 kW	530	-	-
957224[1]	290-12	12 / 16 / 24 kW	630	-	-
957245[1]	290-12	25 / 30 / 45 kW	630	-	-

+ = Installation possible
- = Installation not possible
[1] = An external contactor control must be provided by the customer for this purpose

5.1 HRSS Enameled Large Storage Tank

HRSS 750–1000





	Application	Dimension	750	1000
H	Height	with insulation - mm	1,880	2095
		without insulation - mm	1790	2040
	Diameter	with insulation - mm	990	990
		without insulation - mm	790	790
A	flange	Height - mm	400	400
		Ø - mm	115/180	115/180
B	electric heater	Height - mm	1050	1050
		Connection - female thread	1 ½"	1 ½"
C	Magnesium anode	Height - mm	Not available	
		Connection - female thread		
E	Thermometer	Height - mm	1430	1680
		Connection - female thread	½"	½"
F	cold water	Height - mm	220	220
		Connection - female thread	1 ¼"	1 ¼"
G	RL Register	Height - mm	385	385
		Connection - female thread	1 ¼"	1 ¼"
L	Probe	Height - mm	775	870
		Connection - female thread	½"	½"
M	Flow Register	Height - mm	970	970
		Connection - female thread	1 ¼"	1 ¼"
N	circulation	Height - mm	1350	1545
		Connection - female thread	1"	1"
P	hot water	Height - mm	1590	1840
		Connection - female thread	1 ¼"	1 ¼"

* The model number does not directly indicate the exact net capacity of the tank.

5.2 Performance Table for HRSS 750–1000

Type	heat exchanger m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Capacity (10–45 °C)	Peak output at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
HRSS 750	2.5	50	634	994	431	17.6	-	-	-	-			
		60	652	1,102	539	22.0	-	-	-	-			
		70	679	1,263	700	28.6	638	1,016	453	26.4			
		80	715	1,515	916	38.0	651	1,091	528	30.8	3.2	230	22
HRSS 1000	2.5	50	822	1,181	431	17.6							
		60	840	1,289	539	22.0							
		70	867	1,450	700	28.6	826	1,203	453	26.4			
		80	903	1,702	916	38.0	838	1,278	528	30.8	3.2	230	26

5.3 Enameled Large Storage Tank

HSRS HSRS 750–1000*



Application:	Domestic water storage tank for oil, gas, solids, and similar substances
Model:	S275JR high-quality steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	two permanently welded steel tube coils (enameled on the outside)
insulation:	100 mm polyester fiber fleece with Skymantel in silver or white (assembled up to and including Type 1000)
Electric heating:	Flange-mounted heating available for every tank; screw-in heating available for every tank
Scope of delivery:	3 magnesium anodes
Tests:	Mechanical strength and stability according to EN 12897

* The model number does not directly indicate the exact net capacity of the tank.

5.3 Enameled large storage tank

HSRS HSRS 750–1000

HSRS	Unit	750	1000
Net capacity	l	734	853
Ø without insulation	mm	790	790
tilt height	mm	1890	2135
Heating operating pressure	bar	10	10
Water operating pressure	bar	10	10
Max. operating temperature of water	°C	95	95
Max. operating temperature of the heat exchanger	°C	110	110
Weight	kg	238	260
Item No.		163750	1631000
insulation		Polyester fiber fleece	
	mm	100	
Ø with insulation	mm	990	990
Height with insulation	mm	1880	2095
Weight	kg	15	17
Item No.		9714750	97141000
ErP Class		C	C
ErP Heat Loss	W	113	142
ErP-relevant content	l	765	885

HSRS	Unit	750	1,000
Top-mounted register	m²	2.4	2.5
Volume of top register	l	16.8	17.5
Flow rate (top)	m³/h	3.1	3.2
Pressure drop at the top	mbar	220	230
Continuous power 10 °C / 45 °C / **80 °C**	l/h	916	916
Max. coil capacity*	kW	38.0	38.0
Top performance rating	N_L	11	13
Lower register	m²	2.4	2.5
Capacity (bottom register)	l	16.8	17.5
Flow rate, bottom	m³/h	3.1	3.2
Pressure drop at the bottom	mbar	220	230
Continuous power 10 °C / 45 °C / **80 °C**	l/h	916	916
Max. coil capacity*	kW	38.0	38.0
Performance index (bottom)	N_L	22	26

* For **80 °C** flow design

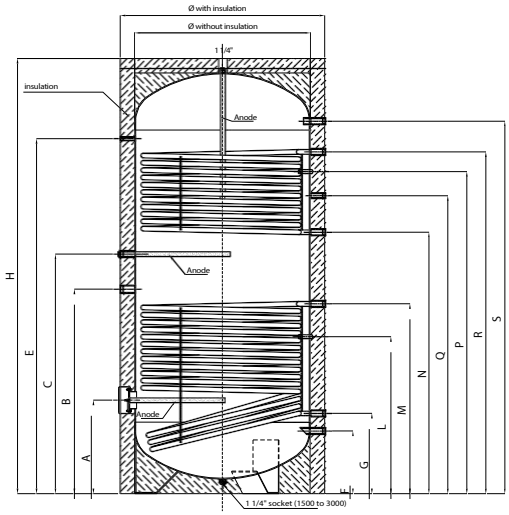
Installation options for flange-mounted heater:

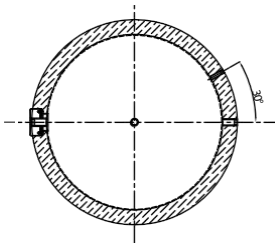
Part No.	Flange Heater		mm	750	1000
957206	180-8	3 / 4 / 6 kW	380	+	+
957208	180-8	4 / 5 / 8 kW	420	+	+
957210	180-8	5 / 6.5 / 10 kW	510	+	+
957212[1]	180-8	12 kW	530	+	+
957215[1]	180-8	15 kW	630	+	+
957209[1]	290-12	9 kW	530	-	-
957224[1]	290-12	12 / 16 / 24 kW	630	-	-
957245[1]	290-12	25 / 30 / 45 kW	630	-	-

\+ = Installation possible
\- = Installation not possible [1] = An external contactor control must be provided by the customer

5.3 HSRS Enameled Large Storage Tank

HSRS 750–1000





	Application	Dimension	750	1000
H	Height	with insulation - mm	1,880	2095
		without insulation - mm	1790	2040
	Diameter	with insulation - mm	990	990
		without insulation - mm	790	790
A	flange	Height - mm	400	400
		Ø - mm	115/180	115/180
B	electric heater	Height - mm	890	890
		Connection - female thread	1 ½"	1 ½"
C	Magnesium anode	Height - mm	Not available	
		Connection - female thread		
E	Thermometer	Height - mm	1430	1680
		Connection - female thread	½"	½"
F	cold water	Height - mm	220	220
		Connection - female thread	1 ¼"	1 ¼"
G	RL Register at the bottom	Height - mm	385	385
		Connection - female thread	1 ¼"	1 ¼"
L	Probe	Height - mm	685	685
		Connection - female thread	½"	½"
M	Flow Register at the bottom	Height - mm	895	895
		Connection - female thread	1 ¼"	1 ¼"
N	RL Register Top	Height - mm	990	990
		Connection - female thread	1 ¼"	1 ¼"
Q	circulation	Height - mm	1235	1235
		Connection - female thread	1"	1"
P	Probe	Height - mm	1340	1340
		Connection - female thread	½"	½"
R	flow Register Top	Height - mm	1440	1440
		Connection - female thread	1 ¼"	1 ¼"
S	hot water	Height - mm	1590	1840
		Connection - female thread	1 ¼"	1 ¼"

5.4 Performance Table for HSRS 750–1000

Type	heat exchanger m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Capacity (10–45 °C)	Peak output at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
HSRS 750	Top	50	369	715	415	16.9	-	-	-	-			
	2.4	60	386	818	518	21.4	-	-	-	-			
		70	417	1,000	700	28.6	373	735	435	21.4			
		80	453	1,216	916	38.0	385	807	507	29.6	3.1	220	11
	below	50	632	978	415	16.9	-	-	-	-			
	2.4	60	649	1,081	518	21.4	-	-	-	-			
		70	679	1,263	700	28.6	635	998	435	21.4			
		80	715	1,479	916	38.0	647	1,070	507	29.6	3.1	220	22
HSRS 1,000	Top	50	472	1181	431	17.6							
	2.5	60	490	1,289	539	22.0							
		70	517	1,450	700	28.6	476	853	453	26.4			
		80	553	1,702	916	38.0	488	929	529	30.8	3.2	230	13
	below	50	822	1181	431	17.6							
	2.5	60	840	1,289	539	22.0							
		70	867	1,450	700	28.6	826	1,203	453	26.4			
		80	903	1,702	916	38.0	838	1,279	529	30.8	3.2	230	26

6.1 High-Performance Heat Pump Storage Tank, with Double-Coil Heat Exchanger—Enameled

HDW 200–1000*



Application:	Especially large heating surface—suitable for high heat pump capacity High-capacity hot water storage tank for oil, gas, solid fuels, solar, and similar systems
Type:	High-quality S275JR steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	Permanently welded, double-coiled steel tube register (enameled on the outside)
insulation:	200–500 liters 75 mm PUR rigid foam permanently molded in place (non-removable) with Skymantel in silver 750–1,000 liters 100 mm polyester fiber fleece with Skymantel in silver or white (already assembled)
Electric heating:	Flange heater available for every tank Screw-in heater available for every tank
Scope of delivery:	2 magnesium anodes (installed)
Tests:	Mechanical strength and stability according to EN 12897

* The model designation does not directly indicate the exact net capacity of the tank.

6.1 High-performance heat pump storage tank with double-coil heat exchanger—enameled

HDW 200–1000

HDW	Unit	200	300	400	500	750	1,000
Net volume	l	192	276	378	473	716	820
Ø without insulation	mm	-	-	-	-	790	790
tilt height	mm	1470	1,880	1910	2010	1890	2135
Heating operating pressure	bar	10	10	10	10	10	10
Operating pressure for water	bar	10	10	10	10	10	10
Max. operating temperature of water	°C	95	95	95	95	95	95
Max. operating temperature of the heat exchanger	°C	110	110	110	110	110	110
Weight	kg	105	130	170	200	275	335
Item No.		167200	167300	167400	167500	167750	1671000
insulation		75 mm PUR rigid foam, permanently bonded				100 mm polyester fiber fleece	
Ø with insulation	mm	650	650	750	790	990	990
Height with insulation	mm	1285	1730	1,715	1805	1,880	2135
Weight	kg					14	16
Item No.						9717750	97171000
ErP Class		B	B	B	B	C	C
ErP Heat Loss	W	54	67	75	79	113	142
ErP-relevant content	l	212	297	420	514	765	885

HDW	Unit	200	300	400	500	750	1,000
Register at the bottom	m²	3.0	3.8	5.0	5.9	7.5	10.0
Table of Contents	l	18.5	23.1	30.0	36.3	46.2	63.0
Flow rate	m³/h	2.5	2.5	3.0	4.0	4.0	4.0
Pressure loss	mbar	26	32	56	130	165	220
Continuous power 10 °C / 45 °C / **50 °C**	l/h	191	242	319	376	478	637
Recommended WP Power	kW	8.0	10.0	13.0	15.0	18.0	22.0
Performance metric	N_L	2.0	3.0	5.0	6.0	9	11.0
Flow Rate*	m³/h	1.9	2.4	3.2	3.8	4.8	6.4
Pressure loss*	mbar	20	30	70	120	230	520
Continuous power* 10° / 45 °C / **80 °C**	l/h	1093	1,384	1,821	2,149	2,732	3,643
Max. register capacity*	kW	44.7	56.6	74.4	88.0	111.6	148.8
Performance metric*	N_L	8.0	10.0	18.0	28.0	40.0	60.0

* for **80 °C** flow design

Installation options for flange-mounted heater:

Part No.	Flange heater	mm	200 u	300 u	400 u	500 u	750 u	1,000 u
957206	180-8 3 / 4 / 6 kW	380	+	+	+	+	+	+
957208	180-8 4 / 5 / 8 kW	420	+	+	+	+	+	+
957210	180-8 5 / 6.5 / 10 kW	510	-	-	-	+	+	+
957212[1]	180-8 12 kW	530	-	-	-	+	+	+
957215[1]	180-8 15 kW	630	-	-	-	-	+	+
957209[1]	290-12 9 kW	530	-	-	-	-	-	-
957224[1]	290-12 12 / 16 / 24 kW	630	-	-	-	-	-	-
957245[1]	290-12 25 / 30 / 45 kW	630	-	-	-	-	-	-

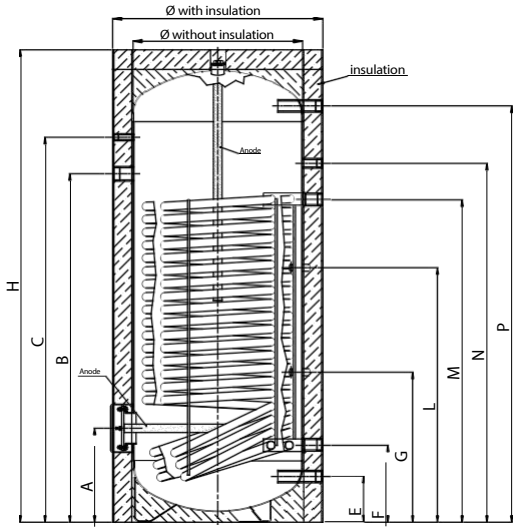
\+ = Installation possible

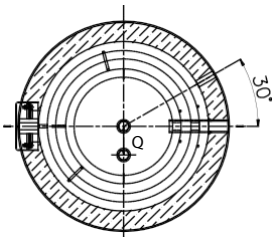
\- = Installation not possible

[1] = An external contactor control must be provided by the customer

6.1 High-Performance Heat Pump Storage Tank, with Double-Coil Heat Exchanger—Enameled

Specification Sheet HDW 200–1000





	Usage	Dimension	200	300	400	500	750	1,000
H	Height	with insulation - mm	1285	1730	1715	1805	1880	2135
		without insulation - mm	-	-	-	-	1790	2040
	Diameter	with insulation - mm	650	650	750	790	990	990
		without insulation - mm	-	-	-	-	790	790
A	flange	Height - mm	257	270	280	360	400	400
		Ø - mm	115/180	115/180	115/180	115/180	115/180	115/180
B	electric heater	Height - mm	940	1150	1165	1335	1300	-
		Connection - Female Thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
C	Thermometer	Height - mm	1040	1430	1385	1475	1450	1730
		Connection - Female Thread	½"	½"	½"	½"	½"	½"
E	cold water	Height - mm	67	67	79	175	220	220
		Connection - Female Thread	1"	1"	1"	1 ¼"	1 ¼"	1 ¼"
F	RL Register	Height - mm	210	230	250	295	370	345
		Connection - Female Thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ½"	1 ½"
G	Probe	Height - mm	Not available					542
		Connection - Female Thread	½"	½"	½"	½"	½"	½"
L	Probe	Height - mm	593	653	690	825	775	1,193
		Connection - Female Thread	½"	½"	½"	½"	½"	½"
M	Flow Register	Height - mm	890	1080	1100	1235	1250	1695
		Connection - Female Thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ½"	1 ½"
N	circulation	Height - mm	990	1200	1205	1375	1140	1235
		Connection - Female Thread	¾"	¾"	¾"	1"	1"	1"
P	hot water	Height - mm	1164	1609	1541	1595	1590	1840
		Connection - Female Thread	1"	1"	1"	1 ¼"	1 ¼"	1 ¼"
Q	Spare Sleeve for Anode	Distance - mm	85	85	85	85	85	85
		Connection - Female Thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"

6.2 Performance Table for HDW 200–1000

Type	Reg m²	flow °C	Peak output at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	Power, kW (10–45 °C)	Peak output at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	Power, kW (10–60 °C)	Primary heating water ms/h	Pressure loss mbar	N_L
HDW	3	50*	176	335	191	8.0					2.5	26	2
200		50	219	594	450	18.4	-	-	-	-			
		60	262	851	707	28.9	-	-	-	-			
		70	305	1,108	964	39.4	234	684	540	31.5			
		80	326	1,237	1,093	44.7	249	774	630	36.8	1.9	20	8
HDW	3.8	50*	247	449	242	10.0					2.5	32	3
300		50	302	777	570	23.3	-	-	-	-			
		60	329	940	733	30.0	-	-	-	-			
		70	411	1,428	1,222	49.9	321	891	684	39.9			
		80	438	1,591	1,384	56.6	340	1,005	798	46.6	2.4	30	10
HDW	5	50*	337	602	319	13.0					3.0	56	5
400		50	409	1,034	750	30.6	-	-	-	-			
		60	480	1462	1,179	48.1	-	-	-	-			
		70	551	1891	1607	65.6	434	1,184	900	52.5			
		80	587	2,105	1821	74.4	459	1,334	1,050	61.3	3.2	70	18
HDW	5.9	50*	417	730	376	15.0					4.0	130	6
500		50	502	1,240	885	36.2	-	-	-	-			
		60	587	1,745	1,391	56.8	-	-	-	-			
		70	671	2,251	1897	77.5	532	1,417	1,062	62.0			
		80	713	2,504	2,149	88.0	561	1,594	1,239	72.3	3.8	120	28
HDW	7.5	50*	617	1,015	478	18.0					4.0	165	9
750		50	725	1662	1,125	46.0	-	-	-	-			
		60	832	2,305	1,768	71.2	-	-	-	-			
		70	939	2,948	2,411	98.5	762	1,887	1,350	78.8			
		80	992	3,269	2,732	111.6	800	2,112	1,575	91.9	4.8	230	40
HDW	10	50*	721	1,252	637	22.0					4.0	220	11
1,000		50	865	2,115	1,500	61.3	-	-	-	-			
		60	1008	2972	2357	96.3	-	-	-	-			
		70	1151	3,829	3214	131.3	915	2,415	1,800	105.0			
		80	1,222	4,258	3,643	148.8	965	2,715	2,100	122.5	6.4	520	60

* **Recommended heat pump capacity (based on 2.5 kW/m²)**

N_L at heating temperature 80 °C and flow of domestic hot water 10 to 45 °C

6.3 High-performance heat pump storage tank, with double-coil heat exchanger, mounted on a buffer tank

HDWPU 400*



Application:	particularly large heating surface—suitable for high heat pump capacity High-performance domestic hot water storage tank mounted on a heat pump buffer tank
Design:	Potable water tank: S275JR high-quality steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006 Buffer tank: S235JR high-quality steel in accordance with EN 10025
Corrosion protection:	Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	Permanently welded, double-coiled steel tube coil (enameled on the outside)
insulation:	50 mm PUR rigid foam permanently molded in place (non-removable) with a silver Skymantel cover
electric heater:	Flange heater available for every tank Screw-in heater available for every tank
Scope of delivery:	1 magnesium anode (installed)
Tests:	Mechanical strength and stability according to EN 12897

* The model designation does not directly indicate the exact net capacity of the tank.

6.3 High-performance heat pump storage tank, with double-coil heat exchanger, mounted on a buffer tank

HDWPU 400

HDWPU	Unit	400
Net capacity of potable water tank	l	300
Net capacity of buffer tank	l	100
tilt height	mm	1860
Max. operating pressure of heat exchanger	bar	10
Max. operating pressure for potable water	bar	10
Max. operating pressure for buffer tank	bar	3
Max. operating temperature of potable water	°C	95
Max. operating temperature of buffer tank	°C	95
Max. operating temperature of the heat exchanger	°C	110
Weight	kg	140
Item No.		171400
insulation		50 mm PUR rigid foam, permanently bonded
Ø with insulation	mm	700
Height with insulation	mm	1695
ErP Class		C
ErP heat loss	W	77
ErP-Relevant Content	l	370

HDWPU	Unit	400
Register	m²	3.2
Register Volume	l	18.8
Flow rate	m³/h	2.5
Pressure drop	mbar	32
Continuous power 10 °C / 45 °C / **50 °C**	l/h	191
Recommended heat pump capacity	kW	8.0
Performance Index	N_L	3.0
Flow rate*	m³/h	1.9
Pressure drop*	mbar	20
Continuous power* 10 °C / 45 °C / **80 °C**	l/h	1093
Max. coil capacity*	kW	44.7
Performance coefficient*	N_L	10.0

* Designed for **80 °C** flow temperature

Installation options for flange-mounted heater:

Part No.	Flange Heater		mm	400
957206	180-8	3 / 4 / 6 kW	380	+
957208	180-8	4 / 5 / 8 kW	420	+
957210	180-8	5 / 6.5 / 10 kW	510	-
957212[1]	180-8	12 kW	530	-
957215[1]	180-8	15 kW	630	-
957209[1]	290-12	9 kW	530	-
957224[1]	290-12	12 / 16 / 24 kW	630	-
957245[1]	290-12	25 / 30 / 45 kW	630	-

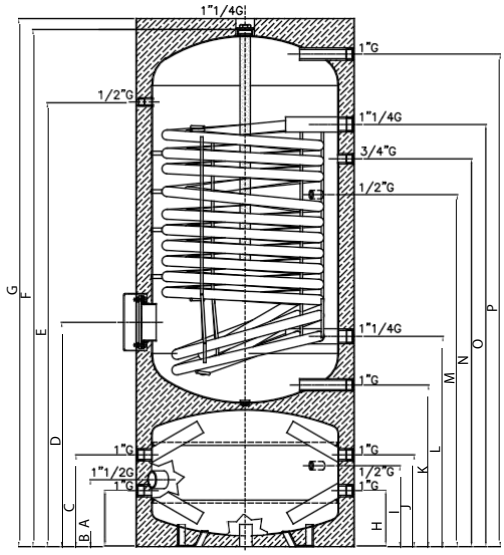
\+ = Installation possible

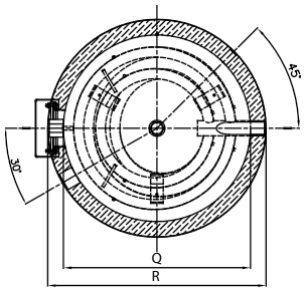
\- = Installation not possible

[1] = An external contactor control must be provided by the customer for this purpose

6.3 High-Performance Heat Pump Storage Tank, with Double-Coil Heat Exchanger, Mounted on a Buffer Tank

Specification Sheet HDWPU 400





	Application	Dimension	400
G	Height	with insulation - mm	1695
R	Diameter	with insulation - mm	700
Q		without insulation - mm	600
A + H	Connection (buffer tank)	Height - mm	180
		Connection - female thread	1"
C + J	Connection (buffer tank)	Height - mm	295
		Connection - female thread	1"
I	Sensor	Height - mm	240
		Connection - female thread	½"
D	flange	Height - mm	720
		Ø - mm	115/180
E	Thermometer	Height - mm	1425
		Connection - female thread	½"
K	cold water	Height - mm	519
		Connection - female thread	1"
L	RL Register	Height - mm	675
		Connection - female thread	1 ¼"
M	Sensor	Height - mm	1130
		Connection - female thread	½"
N	circulation	Height - mm	1245
		Connection - female thread	¾"
O	Flow Register	Height - mm	1355
		Connection - female thread	1 ¼"
P	hot water	Height - mm	1581
		Connection - female thread	1"
B	E-socket	Height - mm	215
		Connection - female thread	1½"

6.4 Performance Table for HDWPU 400

Type	Reg m²	flow °C	Peak flow rate at 45 °C l/10 min	Peak output at 45 °C l/h	Continuous flow rate at 45 °C l/h	heat exchanger-Power (10–45 °C)	Peak flow rate at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	heat exchanger-Capacity (10–60 °C)	Primary heating water ms/h	Pressure loss heat exchanger mbar	N_L Number
HDWPU 400	3.0	50*	247	449	242	10.0					2.5	32	3
		50	302	777	570	23.3	-	-	-	-			
		60	329	940	733	30.0	-	-	-	-			
		70	411	1,428	1,222	49.9	321	891	684	39.9			
		80	438	1,591	1,384	56.6	340	1,005	798	46.6	2.4	30	10

* **Recommended heat pump capacity (based on 2.5 kW/m²)**

N_L at heating temperature 80 °C and flow of domestic hot water 10 to 45 °C

6.5 High-performance heat pump storage tank, with 2 double-coil heat exchangers—enameled

HDWS 350 - 1000*



Application:	Exceptionally large heating surface—suitable for high heat pump capacity High-performance hot water storage tank for oil, gas, solid fuels, solar, and similar systems
Design:	High-quality S275JR steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	Double-enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
heat exchanger:	Top: Permanently welded, double-wound steel tube coil Bottom: Permanently welded, single-coil steel tube register
insulation:	350–600 liters 75 mm PUR rigid foam permanently molded in place (non-removable) with Skymantel in silver 750–1,000 liters 100 mm polyester fiber fleece with Skymantel in silver or white (already assembled)
Electric heater:	Flange heater available for every tank Screw-in heater available for every tank
Scope of delivery:	2 magnesium anodes (installed)
Tests:	Mechanical strength and stability in accordance with EN 12897

* The model designation does not directly indicate the exact net capacity of the tank.

6.5 High-performance heat pump storage tank, with 2 double-coil heat exchangers—enameled

HDWS 350–1000

HDWS	Unit	350	500	600	750	1,000
Net volume	l	412	472	534	720	833
Ø without insulation	mm	-	-	-	790	790
tilt height	mm	1820	2010	2,180	1890	2135
Heating operating pressure	bar	10	10	10	10	10
Operating pressure for water	bar	10	10	10	10	10
Max. operating temperature of water	°C	95	95	95	95	95
Max. operating temperature of the heat exchanger	°C	110	110	110	110	110
Weight	kg	190	210	225	270	310
Item No.		168350	168500	168600	168750	1681000
insulation		75 mm PUR rigid foam, permanently bonded			100 mm polyester fiber fleece	
Ø with insulation	mm	790	790	790	990	990
Height with insulation	mm	1605	1805	2005	1880	2135
Weight	kg				14	16
Item No.					9718750	97181000
ErP Class		B	B	B	C	C
ErP Heat Loss	W	75	79	83	133	142
ErP-relevant content	l	412	472	534	765	885

HDWS	Unit	350	500	600	750	1,000
Register at the bottom	m²	0.9	0.9	0.9	0.9	2.0
Table of Contents	l	5.1	5.1	5.1	5.1	12.2
Flow rate	m³/h	0.6	0.6	0.6	0.6	1.3
Pressure loss	mbar	50	50	50	50	35
Continuous power 10 °C / 45 °C / **80 °C**	l/h	328	328	328	328	729
Max. register capacity	kW	13.4	13.4	13.4	13.4	29.8
Performance metric	N_L	5.0	6.0	6.0	7.0	12.0
Top register WP	m²	4.0	5.5	5.5	6.0	6.0
Table of Contents	l	24.0	35.0	35.0	38.0	38.0
Flow rate	m³/h	3.0	4.0	4.0	4.0	4.0
Pressure loss	mbar	50	125	125	135	135
Continuous power 10 °C / 45 °C / **50 °C**	l/h	214	306	306	334	334
Recommended heat pump capacity	kW	10.0	14.0	14.0	15.0	15.0
Performance metric	N_L	4.0	5.0	6.0	7.0	8.0
Flow rate*	m³/h	2.6	3.5	3.5	3.8	3.8
Pressure drop*	mbar	140	100	100	120	120
Continuous power 10 °C / 45 °C / **80 °C**	l/h	1,457	2004	2004	2186	2186
Max. register capacity	kW	59.5	81.9	81.9	89.3	89.3
Performance metric	N_L	15.0	21.0	21.0	24.0	25.0

* for **80 °C** flow design

Installation options for flange-mounted heater:

Part No.	Flange Heater	mm	350 u	500 u	600 u	750 u	1,000 u
957206	180-8 3 / 4 / 6 kW	380	+	+	+	+	+
957208	180-8 4 / 5 / 8 kW	420	+	+	+	+	+
957210	180-8 5 / 6.5 / 10 kW	510	+	+	+	+	+
957212[1]	180-8 12 kW	530	-	-	-	+	+
957215[1]	180-8 15 kW	630	-	-	-	+	+
957209[1]	290-12 9 kW	530	-	-	-	-	-
957224[1]	290-12 12 / 16 / 24 kW	630	-	-	-	-	-
957245[1]	290-12 25 / 30 / 45 kW	630	-	-	-	-	-

\+ = Installation possible

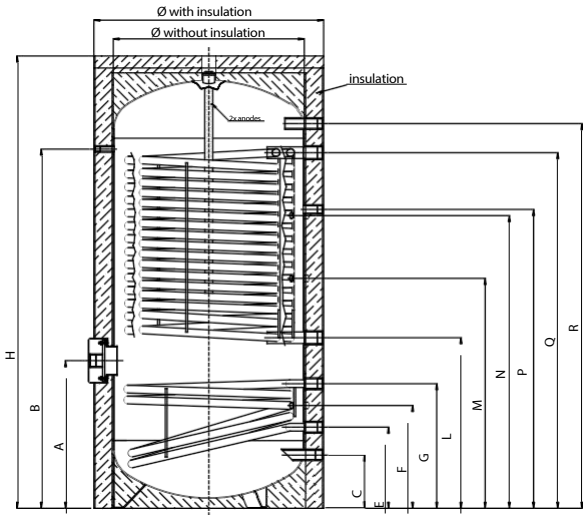
\- = Installation not possible

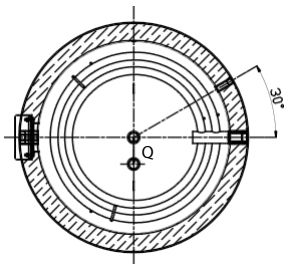
[1] = An external contactor control system must be provided by the

customer for this purpose

6.5 High-Performance Heat Pump Storage Tank, with 2 Double-Coil Heat Exchangers - enameled

Dimension sheet HDWS 350–1000





	Application	Dimensions	350	500	600	750	1000
H	Height	with insulation - mm	1605	1805	2005	1880	2135
		without insulation - mm	-	-	-	1790	2040
	Diameter	with insulation - mm	790	790	790	990	990
		without insulation - mm	-	-	-	790	790
A	flange	Height - mm	565	565	565	610	800
		Ø - mm	115/180	115/180	115/180	115/180	115/180
B	Thermometer	Height - mm	1295	1495	1675	1485	1735
		Connection - female thread	½"	½"	½"	½"	½"
C	cold water	Height - mm	175	175	175	220	220
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
E	RL Bottom Register	Height - mm	295	295	295	335	335
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
F	Probe	Height - mm	395	395	395	425	590
		Connection - female thread	½"	½"	½"	½"	½"
G	Flow Bottom Register	Height - mm	505	505	505	515	715
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
L	RL Top Register	Height - mm	625	625	675	705	930
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ½"	1 ½"
M	Probe	Height - mm	845	910	960	950	1175
		Connection - female thread	½"	½"	½"	½"	½"
N	Probe	Height - mm	1065	1195	1245	1210	1435
		Connection - female thread	½"	½"	½"	½"	½"
P	circulation	Height - mm	1035	1235	1275	1235	1390
		Connection - female thread	1"	1"	1"	1"	1"
Q	FL Top Register	Height - mm	1275	1475	1525	1470	1695
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ½"	1 ½"
R	hot water	Height - mm	1395	1595	1795	1590	1840
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
Q	Spare Sleeve for Anode	Distance - mm	110	110	110	110	110
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"

6.6 Performance Table for HDWS 350–1000

Type	Reg m²	Volume l	flow °C	Peak performance 45 °C l/10 min	Peak flow rate at 45 °C l/h	Continuous flow rate at 45 °C l/h	Power, kW (10–45 °C)	Peak output at 60 °C l/10 min	Peak flow rate at 60 °C l/h	Continuous flow rate at 60 °C l/h	Power, kW (10–60 °C)	Primary heating water ms/h	Pressure loss mbar	N_L
HDWS 350	Top 4	275	50*	311	489	214	10.0					3.0	50	4
			50	375	875	600	24.5	-	-	-	-			
			60	432	1,218	943	38.5	-	-	-	-			
			70	489	1,561	1,286	52.5	395	995	720	42.0			
			80	518	1,732	1,457	59.5	415	1,115	840	49.0	2.6	140	15
	bottom (possible collector area 4 m²)													
	0.9	412	50	332	444	135	5.5	-	-	-	-			
			60	344	521	212	8.7	-	-	-	-			
			70	357	598	289	11.9	336	471	162	9.5			
			80	364	637	328	13.4	341	498	189	11.1	0.6	10	5
HDWS 500	Top 5.5	315	50*	366	621	306	14.0					4.0	125	5
			50	453	1,140	825	33.7	-	-	-	-			
			60	531	1,611	1296	53.0	-	-	-	-			
			70	610	2083	1768	72.2	480	1,305	990	57.8			
			80	649	2,319	2004	81.9	508	1,470	1,150	674	3.5	100	21
	bottom (possible collector area 4 m²)													
	0.9	472	50	377	489	135	5.5	-	-	-	-			
			60	389	566	212	8.7	-	-	-	-			
			70	402	643	289	11.9	381	516	162	9.5			
			80	409	682	329	13.4	386	543	189	11.1	0.6	10	6
HDWS 600	Top 5.5	356	50*	407	662	306	14.0					4.0	125	6
			50	494	1,181	825	33.7	-	-	-	-			
			60	572	1,652	1296	53.0	-	-	-	-			
			70	651	2124	1768	72.2	521	1,346	990	57.8			
			80	690	2,360	2004	81.9	549	1,511	1,155	67.4	3.5	100	22
	bottom (possible collector area 4 m²)													
	0.9	534	50	423	536	135	5.5	-	-	-	-			
			60	436	613	212	8.7	-	-	-	-			
			70	449	690	289	11.9	428	563	162	9.5			
			80	455	728	328	13.4	432	590	189	11.1	0.6	10	6
HDWS 750	Top 6.0	480	50*	536	814	334	15.0					4.0	135	6
			50	630	1,380	900	36.8	-	-	-	-			
			60	716	1894	1414	57.8	-	-	-	-			
			70	801	2,409	1929	78.8	660	1,560	1,080	63.0			
			80	844	2,666	2,186	89.3	690	1,740	1,260	73.5	3.8	120	28
	bottom (possible collector area 4 m²)													
	0.9	720	50	563	675	135	5.5	-	-	-	-			
			60	575	752	212	8.7	-	-	-	-			
			70	588	829	289	11.9	567	702	162	9.5			
			80	595	868	328	13.4	572	729	189	11.1	0.6	10	7
HDWS 1,000	Top 6	555	50*	611	889	334	15.0					4.0	135	8
			50	705	1,455	900	36.8	-	-	-	-			
			60	791	1969	1414	57.8	-	-	-	-			
			70	876	2,484	1929	78.8	735	1,635	1,080	63.0			
			80	919	2,741	2,186	89.3	765	1,815	1,260	73.5	3.8	120	30
	below (possible collector area 10 m²)													
	2	833	50	675	925	300	12.3	-	-	-	-			
			60	703	1,096	471	19.3	-	-	-	-			
			70	732	1,268	643	26.3	685	985	360	21.0			
			80	746	1,353	729	29.8	695	1,045	420	24.5	1.3	35	12

* **Recommended heat pump capacity (based on 2.5 kW/m²)**

Collector: 20% of heat exchanger surface area
N_L at heating temperature 80 °C and flow of domestic hot water 10 to 45 °C

7.1 Domestic water buffer tank—enameled HBPS 200–1000*



Application:	Electric and drinking water storage tank in combination with a plate heat exchanger
Design:	S275JR high-quality steel in accordance with EN 10025, manufactured in accordance with EN 12897:2006
Corrosion protection:	Enameled in accordance with DIN 4753 Magnesium anode provides additional corrosion protection
insulation:	200–500 liters 75 mm PUR rigid foam permanently bonded (non-removable) with Skymantel in silver 750–1,000 liters 100 mm polyester fiber fleece with Skymantel in silver or white (already assembled)
Electric heating:	Flange heater available for every tank Screw-in heater available for every tank
Scope of delivery:	2 magnesium anodes (installed)
Tests:	Mechanical strength and stability in accordance with EN 12897

* The model designation does not directly indicate the exact net capacity of the tank.

7.1 Domestic water buffer tanks—enameled HBPS

200–1000

HBPS	Unit	200	300	400	500	750	1,000
Contents	l	212	297	420	514	765	885
Ø without insulation	mm	-	-	-	-	790	790
tilt height	mm	1470	1,880	1910	2010	1890	2135
Heating System Operating Pressure	bar	10	10	10	10	10	10
Operating pressure for water	bar	10	10	10	10	10	10
Max. operating temperature of water	°C	95	95	95	95	95	95
Max. operating temperature of the heat exchanger	°C	110	110	110	110	110	110
Weight	kg	65	80	105	120	175	200
Item No.		169 200	169 300	169 400	169 500	169 750	169 1,000
insulation		75 mm PUR rigid foam, permanently bonded				100 mm polyester fiber fleece	
Ø with insulation	mm	650	650	750	790	990	990
Height with insulation	mm	1285	1730	1,715	1805	1,880	2095
Weight	kg					14	16
Item No.						9719 750	9719 1000
ErP Class		B	B	B	B	C	C
ErP Heat Loss	W	54	67	75	79	113	142
ErP-Relevant Content	l	212	297	420	514	765	885

Selection table by warm-up time:

	Time	200	300	400	500	750	1,000
Selection Table for Flange Heater, Ø 180 mm	4 h	4.0 kW	5.0 kW	6.0 kW	9.0 kW	12.0 kW	15.0 kW
	6 h	3.0 kW	3.0 kW	5.0 kW	6.0 kW	9.0 kW	10.0 kW
	8 h	3.0 kW	3.0 kW	4.0 kW	4.0 kW	6.0 kW	8.0 kW

The heating capacity is based on a cold water temperature of 10 °C and a hot water temperature of 60 °C

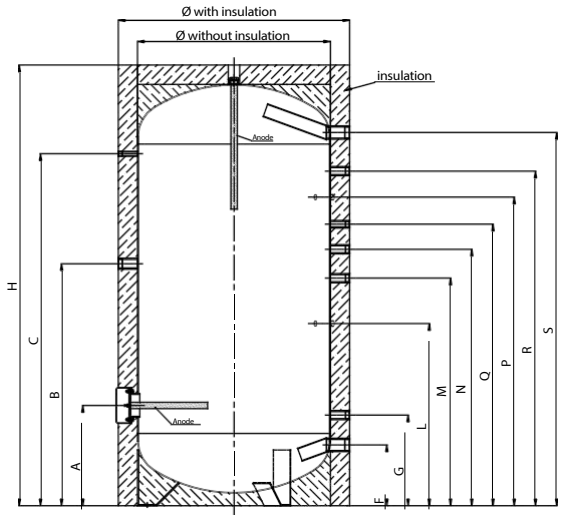
Installation options for flange-mounted heater:

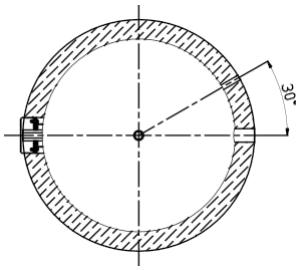
Part No.	Flange heater	mm	200 u	300 u	400 u	500 u	750 u	1,000 u
957206	180-8 3 / 4 / 6 kW	380	+	+	+	+	+	+
957208	180-8 4 / 5 / 8 kW	420	+	+	+	+	+	+
957210	180-8 5 / 6.5 / 10 kW	510	+	+	+	+	+	+
957212[1]	180-8 12 kW	530	-	-	+	+	+	+
957215[1]	180-8 15 kW	630	-	-	+	+	+	+
957209[1]	290-12 9 kW	530	-	-	-	-	-	-
957224[1]	290-12 12 / 16 / 24 kW	630	-	-	-	-	-	-
957245[1]	290-12 25 / 30 / 45 kW	630	-	-	-	-	-	-

\+ = Installation possible
\- = Installation not possible
[1] = An external contactor control must be provided by the customer

7.1 Domestic Water Buffer Tank—Enameled

Specification Sheet HBPS 200–1000





	Application	Dimension	200	300	400	500	750	1,000
H	Height	with insulation - mm	1285	1730	1715	1805	1880	2095
		without insulation - mm	-	-	-	-	1790	2040
	Diameter	with insulation - mm	650	650	750	790	990	990
		without insulation - mm	500	500	600	650	790	790
A	flange	Height - mm	257	257	268	335	400	400
		Ø - mm	115/180	115/180	115/180	115/180	115/180	115/180
B	electric heater	Height - mm	629	914	891	949	890	890
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"
C	Thermometer	Height - mm	929	1384	1411	1480	1460	1680
		Connection - female thread	½"	½"	½"	½"	½"	½"
F	cold water	Height - mm	110	110	120	175	220	220
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"
G	socket	Height - mm	264	264	286	305	385	385
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
L	Probe	Height - mm	474	654	660	685	685	685
		Connection - female thread	½"	½"	½"	½"	½"	½"
M	socket	Height - mm	579	849	846	865	835	835
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
N	socket	Height - mm	679	979	1011	985	990	990
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
Q	circulation	Height - mm	884	1141	1163	1235	1235	1235
		Connection - female thread	¾"	¾"	¾"	1"	1"	1"
P	Probe	Height - mm	914	1214	1245	1285	1340	1340
		Connection - female thread	½"	½"	½"	½"	½"	½"
R	socket	Height - mm	994	1294	1361	1335	1440	1440
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"	1 ¼"
S	hot water	Height - mm	1120	1565	1570	1595	1590	1840
		Connection - female thread	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2"

8.1 Performance Table

Hot Water Supply for Residential Buildings

Number of Standard Apartments	Peak Demand l/10 min		Max. demand 1st hour l/h		Max. demand 2nd hour l/h		Daily requirement in liters	
	45 °C	60 °C	45 °C	60 °C	45 °C	60 °C	45 °C	60 °C
4	290	200	560	390	230	160	960	670
6	360	250	720	500	320	220	1,430	1,000
8	420	290	870	610	430	300	1920	1,340
10	470	330	1,040	730	520	360	2,390	1,670
12	520	360	1,140	800	570	400	2,860	2,000
14	560	390	1,250	880	630	440	3,350	2,340
16	600	420	1,370	960	740	520	3,820	2,670
18	650	450	1,530	1,070	860	600	4,290	3,000
20	680	470	1,700	1,180	970	680	4,770	3,340
25	760	530	1970	1,380	1,140	800	5,960	4,170
30	820	570	2,250	1,580	1,310	920	7,160	5,010
35	900	630	2,480	1,760	1,570	1,100	8,350	5,840
40	980	680	2,700	1,900	1,720	1,200	9,550	6,680
45	1,030	720	2,960	2,070	1940	1,360	10,740	7,515
50	1,070	750	3,215	2,250	2,290	1,600	11,930	8,350
60	1,200	840	3,715	2,600	2,570	1,800	14,290	10,000
70	1,300	910	4,140	2,900	3,120	2,180	16,700	11,690
80	1,400	980	4,570	3,200	3,290	2,300	19,100	13,360
90	1,520	1,060	5,140	3,600	3,860	2,700	21,500	15,030
100	1,650	1,150	5,570	3,900	4,000	2,800	23,900	16,700

9.1 Stainless Steel Domestic Water Buffer Tank

V4A JEPS 200 - 1500*



Application:	Electric and drinking water storage tank in combination with a plate heat exchanger
Construction:	V4A 1.4571 stainless steel, manufactured in accordance with DIN 4763 Tank fully immersion-pickled and passivated
insulation:	200–1,000 liters 100 mm Neodul®in silver 1,250 liters 120 mm Neodul®in silver
Electric heating:	Flange heating available for every tank

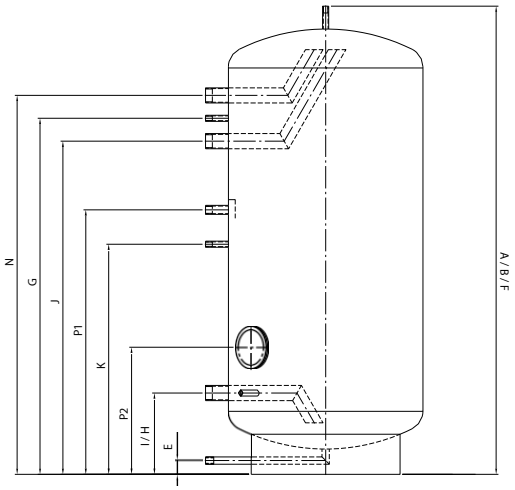
* The model designation does not directly indicate the exact net capacity of the tank.

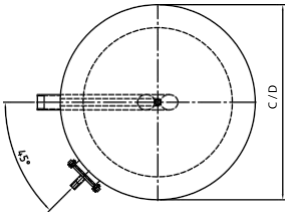
9.1 Stainless Steel Domestic Hot Water Buffer Tank V4A JEPS 200–1500

JEPS	Unit	200	300	400	500	750	1,000	1,500
Contents	l	200	300	400	500	750	1,000	1,500
Ø without insulation	mm	500	500	600	600	750	850	1,000
tilt height	mm	1520	1765	1,755	2005	2100	2090	2280
Operating pressure (water)	bar	10	10	10	10	10	10	10
Max. operating temperature	°C	95	95	95	95	95	95	95
Weight	kg	45	51	60	68	115	153	228
Item No.		500200	500300	500400	500500	500750	5,001,000	5,001,500
insulation		100 mm Neodul®						120 mm Neodul®
Ø with insulation	mm	700	700	800	800	950	1,050	1,240
Height with insulation	mm	1435	1735	1725	1975	2055	2045	2225
ErP Class		B	B	B	B	C	C	C
ErP Heat Loss	W	53	65	75	83	120	139	165
ErP-relevant content	l	212	289	411	490	756	983	1,415

9.1 Stainless Steel Domestic Water Buffer Tank

V4A Data Sheet JEPS 200–1500





	Application	Dimension	200	300	400	500	750	1,000	1,500
A	Height	with insulation - mm	1435	1735	1725	1975	2055	2045	2225
B		without insulation - mm	-	-	-	-	-	-	-
C	Diameter	with insulation - mm	700	700	800	800	950	1,050	1,240
D		without insulation - mm	500	500	600	600	750	850	1,000
E	drain	Height - mm	60	60	60	60	60	60	80
		Connection - female thread	¾"	¾"	¾"	¾"	¾"	¾"	1 ¼"
F	air vent	Height - mm	1430	1680	1725	1975	2055	2045	2170
		Connection - female thread	½"	½"	½"	½"	½"	½"	1"
G	sensor sleeve	Height - mm	1035	1285	1290	1510	1560	1555	1660
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
H	Cold Water Charger Return	Height - mm	295	295	320	320	360	355	430
		Connection - female thread	1 ¼"	1 ¼"	1 ½"	1 ½"	2"	2"	2"
I	sensor sleeve	Height - mm	295	295	320	320	360	355	430
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
J	Loading lead	Height - mm	945	1195	1190	1410	1460	1455	1560
		Connection - female thread	1 ¼"	1 ¼"	1 ¼"	1 ¼"	2"	2"	2"
K	sensor sleeve	Height - mm	745	885	910	960	1010	1005	1070
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
N	hot water	Height - mm	1125	1375	1390	1610	1660	1655	1760
		Connection - female thread	1 ¼"	1 ¼"	1 ½"	1 ½"	2"	2"	2"
P1	circulation	Height - mm	845	985	1010	1110	1160	1155	1220
		Connection - female thread	1"	1"	1"	1"	1"	1"	1"
P2	Inspection opening with O-ring	Height - mm	460	460	520	520	560	555	760
		Ø - mm	120/180	120/180	120/180	120/180	120/180	120/180	400/480

9.2 V4A JEBS1 V2 Stainless Steel Storage Tank 150–1000*



Application:	Domestic hot water storage tank for oil, gas, solid fuels, heat pumps, solar systems, and similar applications
Design:	V4A stainless steel in accordance with DIN 4753
Corrosion protection:	Pickled and passivated in a immersion bath
heat exchanger:	Permanently welded coil made of stainless steel tubing
insulation:	100 mm Neodul®in silver; other insulation types available upon request
Electric heating:	Flange heating available for every tank

* The model designation does not directly indicate the exact net capacity of the tank.

9.2 V4A Stainless Steel Storage Tank

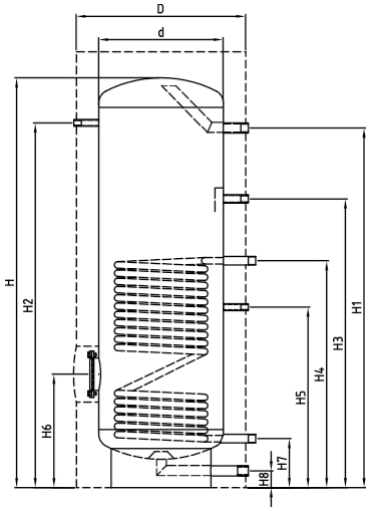
JEBS1 V2 150–1000

JEBS1	Unit	150	200	300	400	500	750	1,000
Net volume	l	147	212	289	411	490	756	990
Diameter without insulation	mm	500	500	500	600	600	750	850
tilt height	mm	1015	1370	1625	1680	1920	2035	2045
Heating operating pressure	bar	25	25	25	25	25	25	25
Operating pressure for water	bar	10	10	10	10	10	10	10
Max. operating temperature	°C	95	95	95	95	95	95	95
Weight	kg	40	54	64	76	90	142	173
Item No.		501150	501200	501300	501400	501500	501750	5011000
insulation		100 mm Neodul®						
Ø with insulation	mm	700	700	700	800	800	950	1,050
Height with insulation	mm	1105	1,480	1740	1735	1990	2080	2080
ErP Class		B	B	B	B	B	C	C
ErP Heat Loss	W	47	52	63	72	79	116	135
ErP-relevant content	l	147	212	289	411	490	756	990

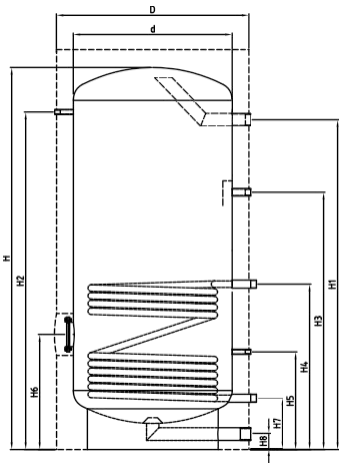
JEBS1	Unit	150	200	300	400	500	750	1,000
Register at the bottom	m²	0.6	0.9	1.4	1.7	1.7	2.4	2.4
Table of Contents	l	3.2	4.7	8.0	8.5	8.5	17.0	17.0
Flow rate	m³/h	0.7	1.0	1.6	1.9	1.9	2.7	2.7
Pressure loss	mbar	20	50	155	255	255	110	110
Continuous power 10 °C / 45 °C / **80 °C**	l/h	370	560	860	1045	1045	1,495	1,495
Max. register capacity	kW	15.0	22.5	35.0	42.5	42.5	60.0	60.0
Performance metric	N_L	2.0	3.5	8.6	14.3	18.1	32.7	36.1

9.2 V4A Stainless Steel Storage Tank

Dimension Sheet JEBS1 V2 150–1000



JEBS1 V2 150–400 liters



JEBS1 V2 500–1,000 liters

	Application	Dimensions	150	200	300	400	500	750	1,000
	Height	with insulation - mm	1105	1480	1740	1735	1990	2080	2080
H		without insulation - mm	955	1330	1590	1635	1890	1980	1980
D	Diameter	with insulation - mm	700	700	700	800	800	950	1,050
d		without insulation - mm	500	500	500	600	600	750	850
H1	hot water	Height - mm	780	1135	1395	1,420	1690	1745	1745
		Connection - female thread	¾"	¾"	1"	1"	1"	1 ½"	2"
H2	Thermometer	Height - mm	780	1155	1415	1440	1690	1745	1745
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
H3	circulation	Height - mm	690	960	1120	1060	1305	1330	1330
		Connection - female thread	½"	½"	¾"	¾"	¾"	¾"	1"
H4	Flow Register	Height - mm	575	690	880	875	1120	1080	855
		Connection - AG	1"	1"	1"	1"	1"	1 ¼"	1 ¼"
H5	Temperature Control	Height - mm	480	610	700	700	750	830	505
		Connection - female thread	½"	½"	½"	½"	½"	½"	½"
H6	Inspection opening	Height - mm	345	450	440	465	515	615	595
		Ø - mm	120/180	120/180	120/180	120/180	120/180	120/180	120/180
H7	RL Register	Height - mm	180	180	190	215	215	270	265
		Connection - AG	1"	1"	1"	1"	1"	1"	1"
H8	cold water	Height - mm	60	60	65	65	65	80	80
		Connection - female thread	¾"	¾"	1"	1"	1"	1 ½"	2"

9.3 V4A Stainless Steel Storage Tank JEBS2 V2 300–1000*



Application:	Domestic hot water storage tank for oil, gas, solid fuels, heat pumps, solar systems, and similar applications
Type:	V4A stainless steel per DIN 4753
Corrosion protection:	Pickled and passivated in a immersion bath
heat exchanger:	Permanently welded coil made of stainless steel tubing
insulation:	100 mm Neodul®in silver; other insulation types available upon request
Electric heating:	Flange heating available for every tank

* The model designation does not directly indicate the exact net capacity of the tank.

9.3 V4A Stainless Steel Storage Tank

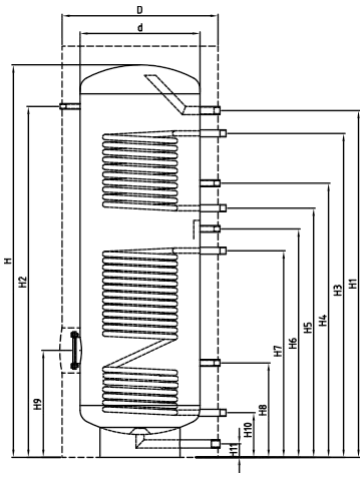
JEBS2 V2 300–1000

JEBS2	Unit	300	400	500	750	1,000
Contents	l	289	411	490	756	990
Diameter without insulation	mm	500	600	600	750	850
tilt height	mm	1625	1680	1920	2035	2045
Heating operating pressure	bar	25	25	25	25	25
Operating pressure for water	bar	10	10	10	10	10
Max. operating temperature	°C	95	95	95	95	95
Weight	kg	72	90	110	160	200
Item No.		502300	502400	502500	502750	5021000
insulation		100 mm Neodul®				
Ø with insulation	mm	700	800	800	950	1050
Height with insulation	mm	1740	1,735	1990	2080	2080
ErP Class		B	B	B	C	C
ErP Heat Loss	W	66	76	83	120	140
ErP-relevant content	l	289	411	490	756	990

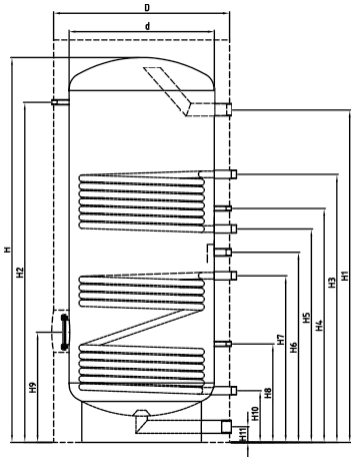
JEBS2	Unit	300	400	500	750	1,000
Register at the bottom	m²	1.4	1.7	1.7	2.4	2.4
Table of Contents	l	8.0	9.0	9.0	17.0	17.0
Flow rate	m³/h	1.5	1.9	1.9	2.7	2.7
Pressure loss	mbar	155	255	255	110	110
Continuous power 10 °C / 45 °C / **80 °C**	l/h	860	1045	1045	1,495	1,495
Max. register capacity	kW	35.0	42.5	42.5	60.0	60.0
Performance metric below	N_L	12	20	27	47	54
Top tab	m²	0.8	0.9	0.9	1.4	1.8
Table of Contents	l	4.5	5.0	5.0	10.0	13.0
Flow rate	m³/h	0.9	1.0	1.0	1.6	2.0
Pressure loss	mbar	35	50	50	25	50
Continuous power 10 °C / 45 °C / **80 °C**	l/h	495	560	560	860	1,120
Max. register capacity	kW	20.0	22.5	22.5	35.0	45.0
Performance metric (top)	N_L	9	13	15	15	24

9.3 V4A Stainless Steel Storage Tank

Dimension Sheet JEBS2 V2 300–1000



JEBS2 V2 150–400 liters



JEBS2 V2 500–1,000 liters

	Application	Dimensions	300	400	500	750	1000
	Height	with insulation - mm	1,740	1735	1990	2080	2080
H		without insulation - mm	1590	1635	1890	1980	1980
D	Diameter	with insulation - mm	700	800	800	950	1050
d		without insulation - mm	500	600	600	750	850
H1	hot water	Height - mm	1410	1,425	1670	1710	1705
		Connection - female thread	1"	1"	1"	1 ½"	2"
H2	Thermometer	Height - mm	1415	1440	1690	1,745	1,745
		Connection - female thread	½"	½"	½"	½"	½"
H3	flow Top Register	Height - mm	1310	1320	1560	1580	1375
		Connection - AG	1"	1"	1"	1 ¼"	1 ¼"
H4	Temperature Control	Height - mm	1130	1150	1320	1410	1200
		Connection - female thread	½"	½"	½"	½"	½"
H5	RL Top Register	Height - mm	1020	1065	1200	1300	1095
		Connection - AG	1"	1"	1"	1 ¼"	1 ¼"
H6	circulation	Height - mm	925	960	1100	1200	975
		Connection - female thread	¾"	¾"	¾"	¾"	1"
H7	Flow Register Bottom	Height - mm	830	845	995	1080	855
		Connection - AG	1"	1"	1"	1 ¼"	1 ¼"
H8	Temperature Control	Height - mm	380	405	455	505	505
		Connection - female thread	½"	½"	½"	½"	½"
H9	Inspection opening	Height - mm	440	465	515	565	565
		Ø - mm	120/180	120/180	120/180	120/180	120/180
H10	RL Bottom Register	Height - mm	190	215	215	270	265
		Connection - AG	1"	1"	1"	1 ¼"	1 ¼"
H11	cold water	Height - mm	65	65	65	80	80
		Connection - female thread	1"	1"	1"	1 ½"	2"

10.1 Fresh Hot Water Station



JFWS S HE

Applications:
The hygienic fresh water station for single-family homes and apartment buildings – flow rate up to 33 l/min*

JFWS M HE

Applications:
The hygienic fresh water station for single-family and multi-family homes – flow rate up to 46 l/min*

Benefits at a glance:
- Compact modular design
- Complete, pre-assembled for connection to the storage circuit and drinking water circuit
- with built-in controller, pre-wired
- Includes ISOPACK EPP
- Customizable circulation modes
- Hygiene program and thermal disinfection available

Functional Description:
The fresh water station heats the potable water in the stainless steel plate heat exchanger, always providing hygienically fresh water as needed. During the dispensing process, warm heating water is pumped from the buffer tank through the heat exchanger. In the heat exchanger, heat is extracted from the heating water and simultaneously transferred to the potable water. Thus, the potable water is heated to the set temperature using the counterflow principle. The intelligent control system adjusts the charging pump's output to current demand.

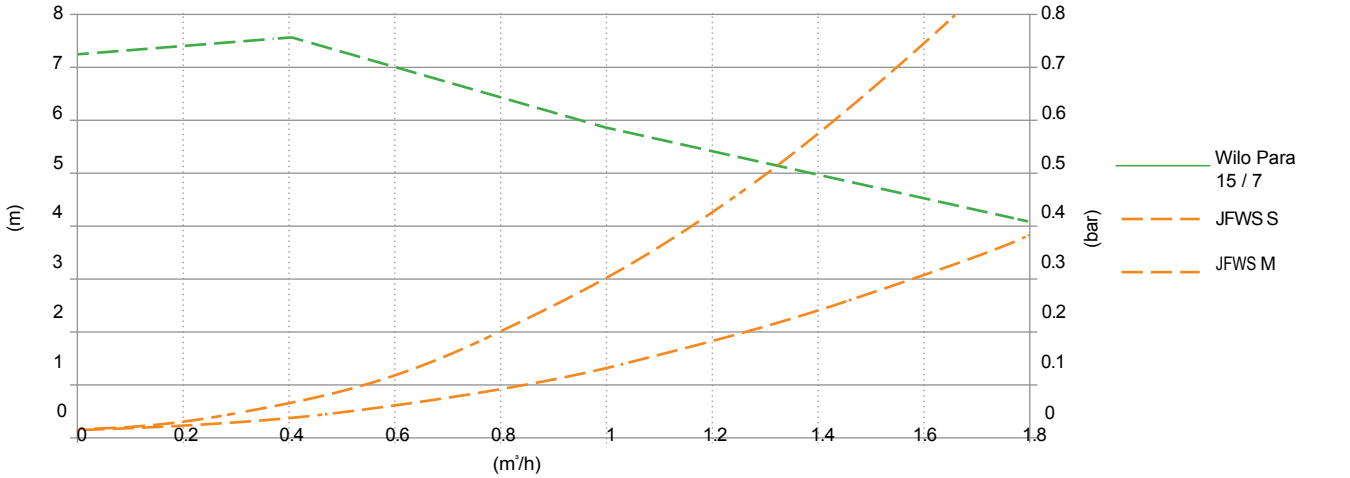
The suitability of copper-brazed heat exchangers must be verified.

Part No.	Type	Flow Rate l/min	H mm	B mm	D mm	Heating bar	Potable water bar	Weight kg
956001	JFWS S **HE**	max. 33	565	420	190	3	10	9.4
	Customizable circulation profiles, MicroPlate™ heat exchanger							
956002	JFWS M **HE**	max. 46	565	420	190	3	10	10.5
	Customizable circulation profiles, MicroPlate™ heat exchanger							
956003	JFWS L **HE**	max. 65	865	525	280	3	10	14
	Customizable circulation profiles, MicroPlate™ heat exchanger							
956004	JFWS S **V4A**	max. 33	565	420	190	3	10	9.4
956005	JFWS M **V4A**	max. 46	565	420	190	3	10	10.5
956007	JFWS L **V4A**	max. 65	865	525	280	3	10	14
956101	JFWS S/M HE Storage Tank Connection Kit for 1100–1580 mm RP 1 1/2" Fittings							
956102	Circulation Kit JFWS S / M with HE Domestic Water Pump 15/7.0 RKC							
956103	Circulation Pump Set JFWS L, incl. HE Pump							
956104	Piping Set K2, including Cascade Valves							
956105	JFWS three-way diverter valve for return flow integration							
956106	JFWS Thermal Premix Control Kit							
956107	Storage Tank Precision Air Vent 1 ½"							
956108	Storage Tank Safety Assembly, incl. Shut-off Ball Valve, 3 bar Pressure Gauge SV							
956109	Tank Corner Ball Valve DN 25, incl. 1 ½" Reducing Nipple							
956110	Tank Corner Ball Valve Set - Heating Circuit							
956111	Tank Corner Ball Valve Set – JFWS – Allows for Direct Installation							
956112	Storage Tank MAG Connection Kit							
956113	Vertical Storage Tank Connection Kit							

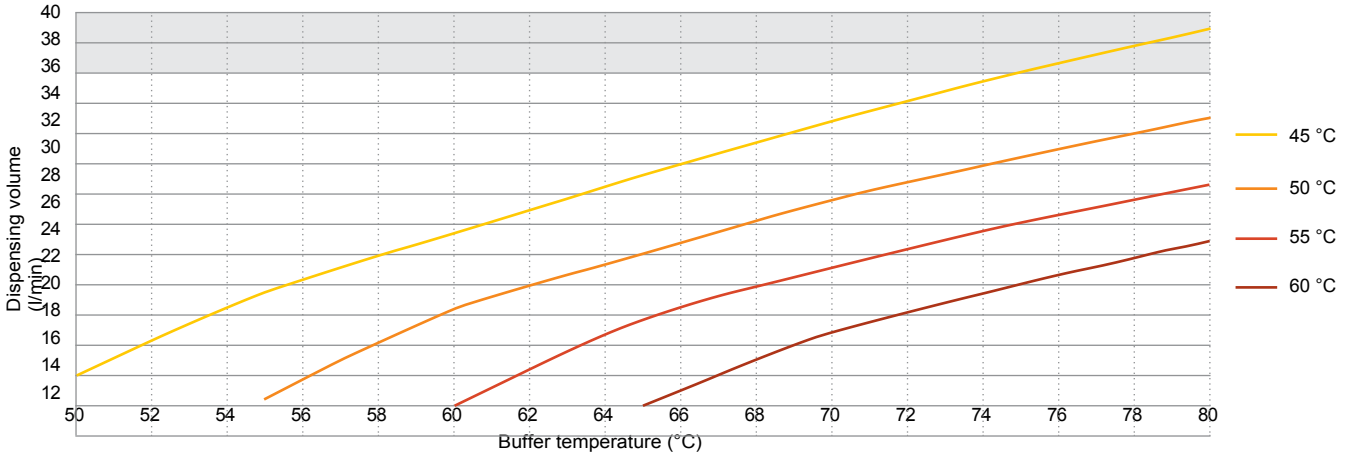
* Temperature rise of 35 K at flow temperature (70 °C)

10.2 Performance Curves JFWS S+M HE

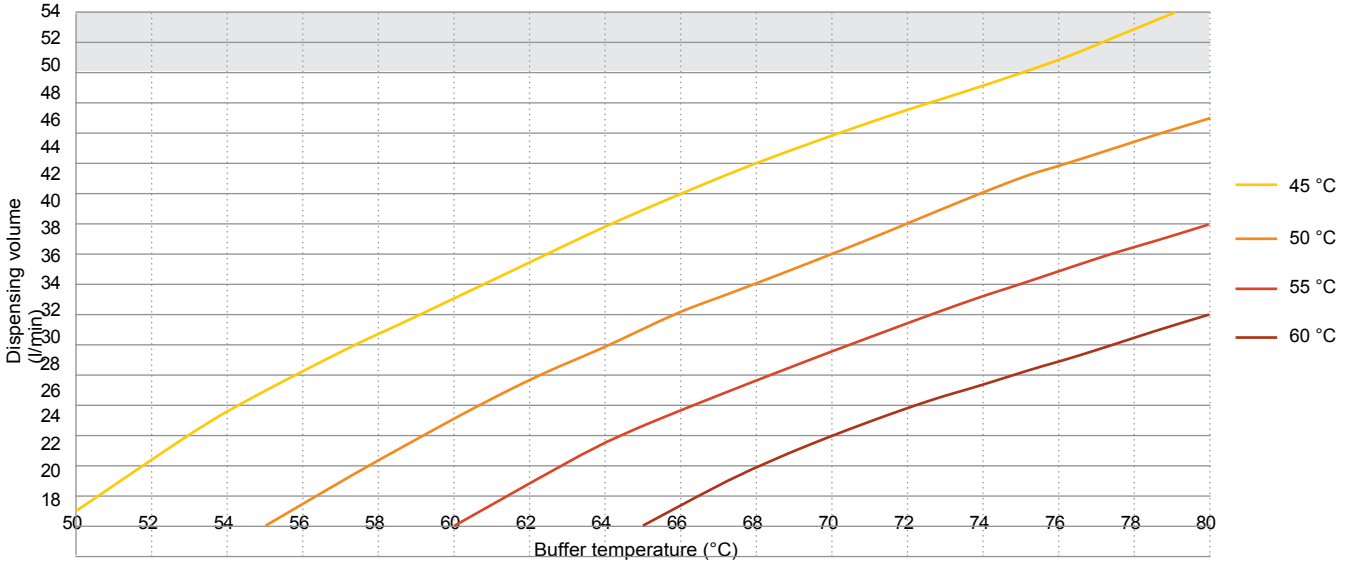
Pressure loss



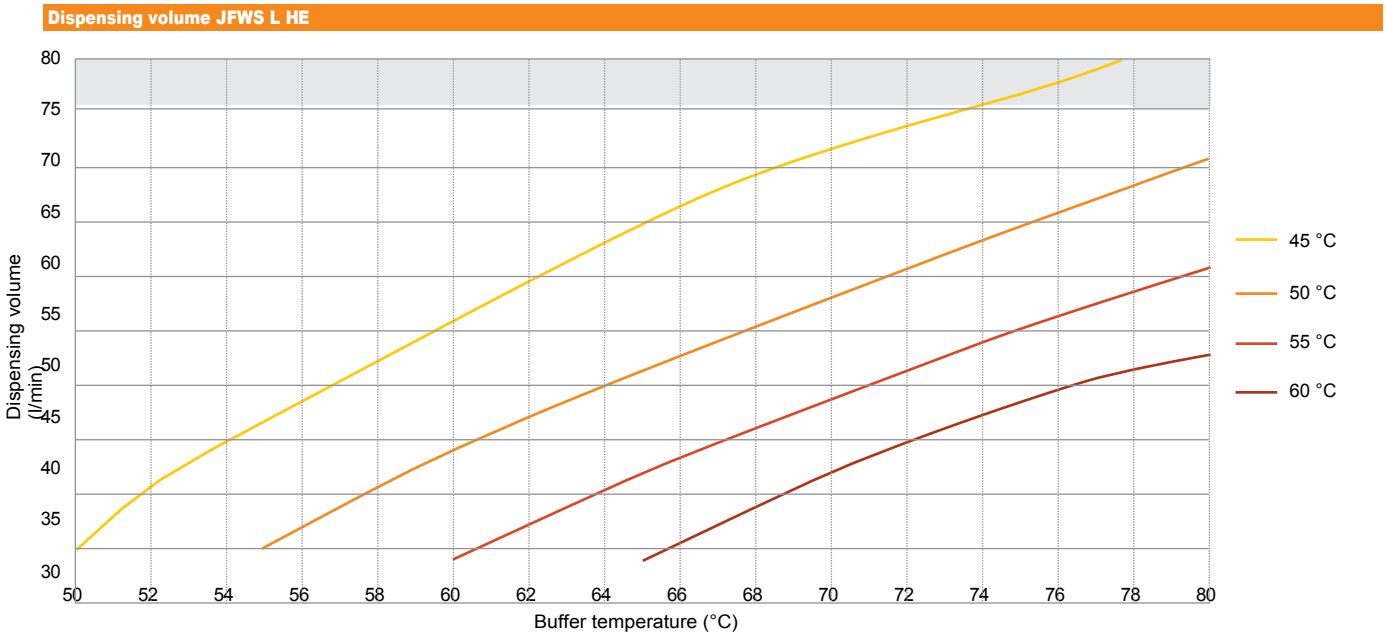
Dispensing Volume JFWS S HE

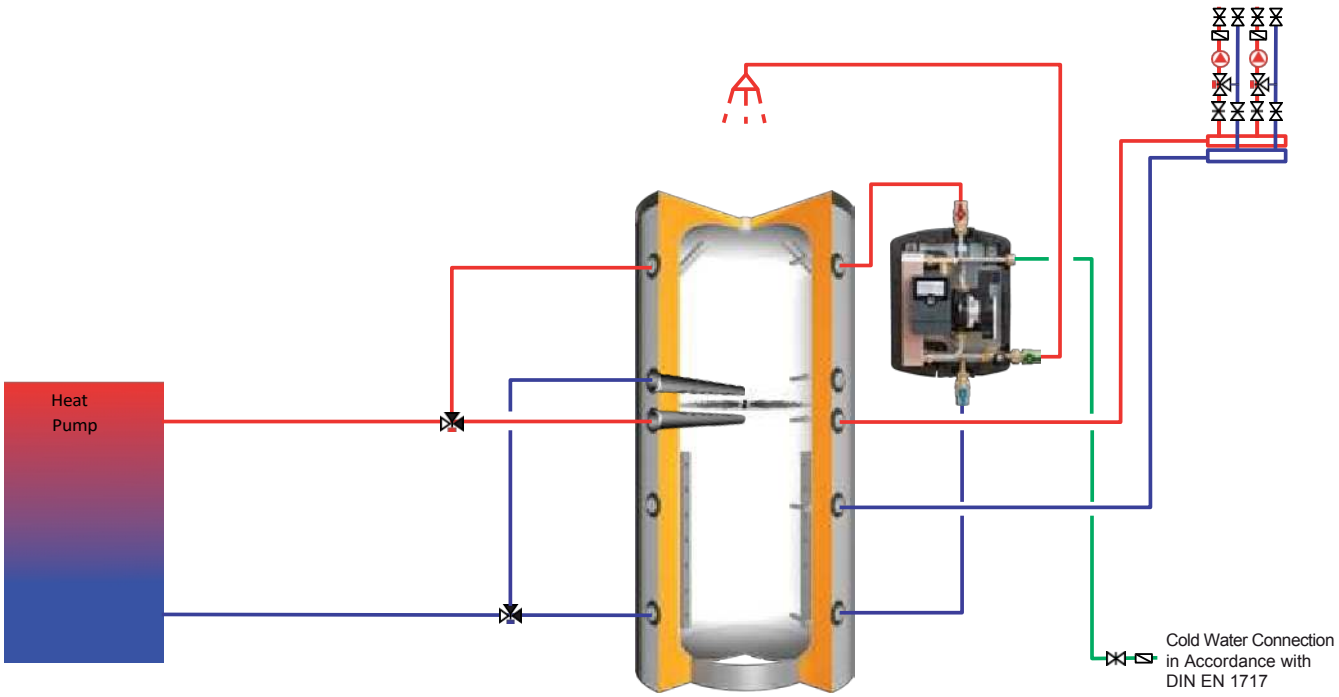


Dispensing volume JFWS M HE



10.3 Performance Chart for JFWS L HE





This drawing is a non-binding schematic representation! No claim to completeness or accuracy can be made! Subject to technical changes and errors! It is recommended to install thermosiphons. Before construction begins, a specialist must calculate and verify the following items in accordance with local regulations and standards: expansion tank, pipe sizing, and functionality.

10.4 Screw-in heater



Model: ESH series with 1 ½" threaded head

For heating water with an insulated, screw-in Incoloy tubular heating element featuring a protective current-diverting resistor

Control devices with direct switching at ~220 V up to 3 kW, at 3 ~ 380 V up to 9 kW

Temperature controllers, freeze protection circuits, and safety temperature limiters are wired for direct switching. Separate contactors are not required; only a fused supply line is needed.

Type	Power kW	Voltage V	Thread	Installation Length mm ***	Part No.
ESH 2.00	2.0	230	1 ½"	330	957102
ESH 3.00	3.0	230	1 ½"	375	957103
ESH 4.50	4.5	3 ~ 380	1 ½"	470	957105
ESH 6.00	6.0 "short"	3 ~ 380	1 ½"	450	9571061
ESH 6.00	6.0	3 ~ 380	1 ½"	590	957106
ESH 7.50	7.5	3 ~ 380	1 ½"	720	957108
ESH 9.00	9.0	3 ~ 380	1 ½"	780	957109
ESH 12.00[3]	12.0	3 ~ 380	1 ½"	1100	957112

Item No.	Type	Installation Length	Tank Type and Size JPSM, JPSR[1], JPSL[1], JPSLR[1], EH[2], EHS[2], EHSS[2], EHWP[2], EHSWP[2], JHKE[2], JHKE/F[2], JHKE/R2[2]								
		mm	300	400	500	600	825[4]	1,000[4]	1,250	1,500	2,000
957102	Electric heater 2.0 kW	330	+	+	+	+	+	+	+	+	+
957103	Electric Heater 3.0 kW	375	+	+	+	+	+	+	+	+	+
957105	Electric Heater 4.5 kW	470	+	+	+	+	+	+	+	+	+
9571061[1]	Electric Heater 6.0 kW	450	+	+	+	+	+	+	+	+	+
957106[1]	Electric Heater 6.0 kW	590	-	+	+	+	+	+	+	+	+
957108[1]	Electric Heater 7.5 kW	720	-	-	-	+	+	+	+	+	+
957109[1]	Electric Heater 9.0 kW	780	-	-	-	-	+	+	+	+	+
957112[1]	Electric Heater 12.0 kW	1100	-	-	-	-	-	-	-	+	+

\+ = Installation possible
\- = Installation not possible
* = 230 V connection
** = 400 V connection

[1] = Installation possible only in sockets without any components behind them
[2] = Installation is only possible in the E-socket
[3] = Rewiring-compatible version for external contactor control provided by the customer
[4] = Includes 825B and 1000B

Notes:

- For tanks without an electric socket, the baffle plate behind it must be pushed aside.
- Starting with Type 2500, a reduction from 2" to 1 ½" is required. Furthermore, the electric heater must then be sealed.
- For all electric heaters, the first 150 mm are unheated to prevent boiling water in the socket.
- Includes frost protection function
- Temperature control from 30 to 85 °C, STB 110 °C
- Controller switching hysteresis: ± 7 °C, limiter: -6 °C to + 5 °C

10.5 Flange heater for steel storage tanks



For heating water with an insulated, externally mounted Incoloy heating element featuring a protective current-diverting resistor

The temperature controller, anti-freeze circuit, and safety temperature limiter are hardwired for direct switching up to 10 kW. For capacities greater than 10 kW, a contactor control must be provided on site.

It is mandatory to use the enclosed gasket!

Type	Power kW	Voltage V	Flange size	Installation Length mm	O.D. mm	Inner diameter mm	Bore circle	Part No.
Flange Heater 180 mm (8-hole – M12)								
Flange heater[1]	3 / 4 / 6	3 ~ 380	180 - 8-hole flange	380	180	115	150	957206
Flange heater[1]	4 / 5 / 8	3 ~ 380	180 - 8-hole flange	420	180	115	150	957208
Flange heater[1]	5 / 6.5 / 10	3 ~ 380	180 - 8-hole flange	510	180	115	150	957210
Flange Heater [2]	12	3 ~ 380	180 - 8-hole flange	530	180	115	150	957212
Flange Heater [2]	15	3 ~ 380	180 - 8-hole flange	630	180	115	150	957215
Flange Heater 290 mm (12 Holes – M12)								
Flange Heater [1]	9	3 ~ 380	290 - 12-hole flange	530	290	210	255	957209
Flange Heater [3]	12 / 16 / 24	3 ~ 380	290 - 12-hole flange	630	290	210	255	957224
Flange Heater [3]	25 / 30 / 45	3 ~ 380	290 - 12-hole flange	630	290	210	255	957245

[1] = Rewiring-capable version
[2] = Version for external contactor control provided by the customer
[3] = Rewiring-compatible version for external contactor control provided by the customer

Special flange heater for stainless steel storage tanks



- Low surface load: approx. 5.0 W/cm²
- Flange plate made of stainless steel 1.4571
- Heating surface made of copper-nickel (CuNi10FE) and stainless steel 1.4539
- Welded design
- Built-in temperature controller: 30 °C – 85 °C; switching differential: 12 ± 6 K
- Built-in anti-freeze circuit
- Built-in safety temperature limiter (STB), cut-off temperature 110 °C -8 K
- The temperature controller, anti-freeze circuit, and safety temperature limiter are wired for direct switching.
- Separate contactors are not required; only a fused power supply is needed.
- A gasket is included in the scope of delivery

Type	Voltage V	Power A/kW	Flange size	Installation length mm	Part No.
Special flange heater with regulator and limiter	3 ~ 380	5.8 / 4.0	180 - 8 flange	320	505400
Special flange heater with regulator and limiter	3 ~ 380	8.7 / 6.0	180 - 8 flange	380	505600
Special flange heater with regulator and limiter	3 ~ 380	11.6 / 8.0	180 - 8 flange	420	505800
Special flange heater with regulator and limiter	3 ~ 380	14.4 / 10	180 - 8 flange	510	5051000

Note:

- On all electric heaters, the first 150 mm are unheated to prevent boiling water in the socket.

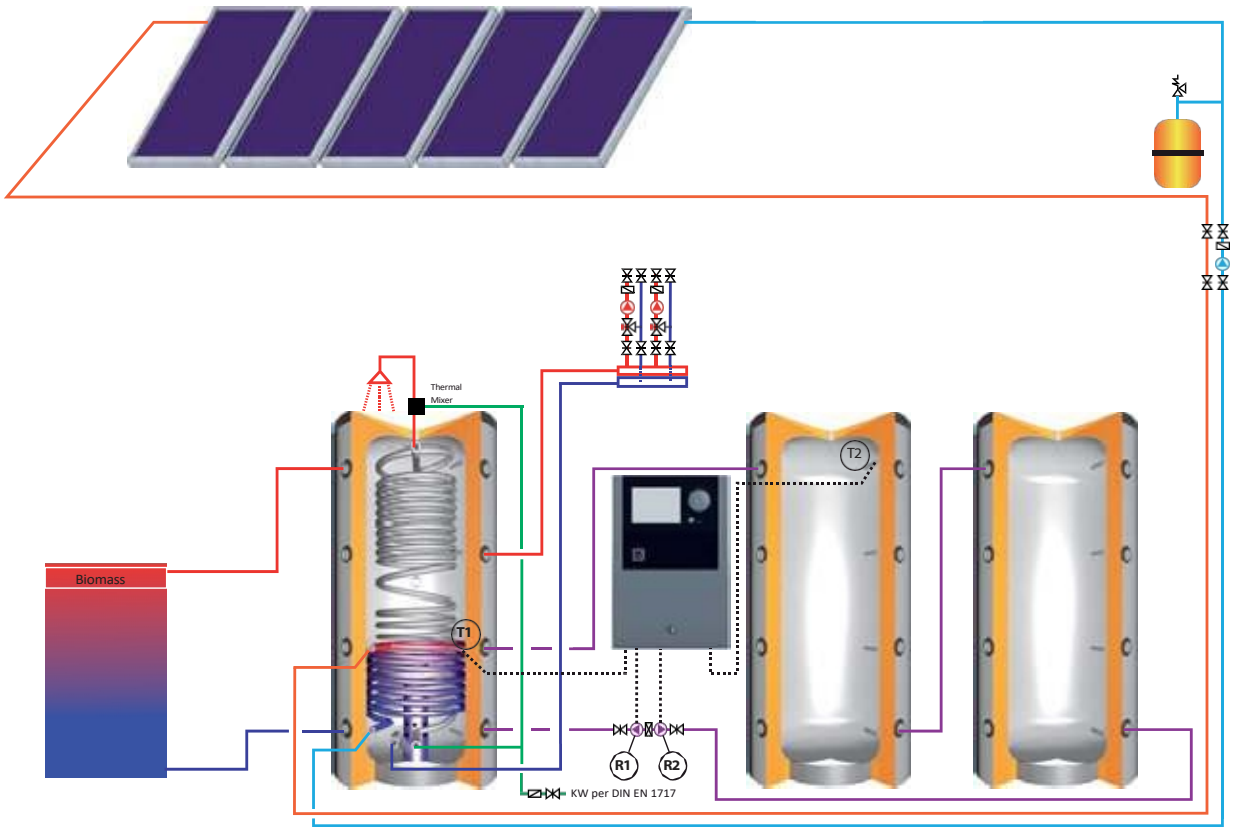
10.6 Buffer Transfer Set



Functional Description:

- Temperature differential controller for distributing and/or redistributing heating water in buffer storage systems.
- Backlit full-graphics display, potential-free relay output for additional heat demand, control for high-efficiency pump.
- Scope of delivery: 1 x temperature differential controller, 3 x PT1000 sensors, 4 m long

Part No.	Type
947001	Buffer tank transfer kit consisting of: controller, 3 x sensors, 3 x immersion sleeves
947002	Double Check Valve
947003	Pump ball valve



This drawing is a non-binding schematic representation! No claim can be made as to its completeness or accuracy! Subject to technical changes and errors! It is recommended to install thermosiphons. Before construction begins, a specialist must calculate and verify the following items in accordance with local regulations and standards: expansion tank, pipe sizing, and functionality.

10.7 Neodul®Insulation – Advantages



- for JPSM/R/RR / JPSL/R/RR / EMH/S/SS
- Silver-colored PP surface
- Very good lambda value of 0.0316 W/mK
- Optimized insulation around connections
- Precise fit without chimney losses
- Approx. 30% less steady-state heat loss compared to fleece insulation
- All Neodul®thermal insulation products are free of heavy metals, CFCs, and substances on the GADSL list
- Includes 50 mm of highly compressed fleece floor insulation

Item No.	Type		Insulation Thickness (Shell | Lid)	ErP Class	Weight (kg)
9720300	Neodul®Insulation	300	100|150	B	10
9720500	Neodul®Insulation	500	100|150	B	12
9720600	Neodul®Insulation	600	130|150	B	14
9720825	Neodul®Insulation	825	130|150	B	16
97208253	Neodul®Insulation	825B	130|150	B	16
97201000	Neodul®Insulation	1000	130|150	B	18
972010003	Neodul®Insulation	1000B	130|150	B	18
97201250	Neodul®Insulation	1250	130|150	B	20
97201500	Neodul®Insulation	1500	130|150	B	23
97202000	Neodul®Insulation	2000	140|200	B	25

10.8 Ecoline Vlies Insulation

– tomorrow's quality, starting today.

We are pleased to introduce our new "Ecoline" insulation.
This allows us to comply with new EU regulations, such as the Ecodesign Directive, even today.

In this regard, we placed particular emphasis on resolving two key issues:

1. The fire rating is now Class **B2 according to DIN 4102**
2. the chimney effect has been reduced, resulting in better insulation performance than that of the previous soft foam version.

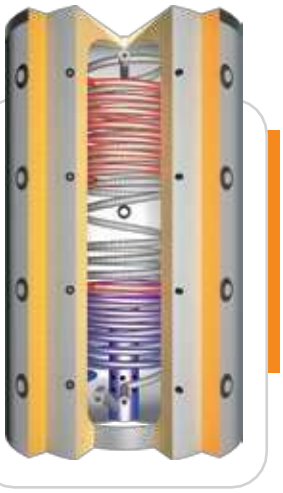
Another advantage of the polyester fiber fleece is that it is 100% recyclable and contains no chemical binders. Our insulation consists mainly of materials that have proven themselves in everyday use for many years.

All advantages at a glance:

- 100% polyester fibers
- No chemical binding agents
- Non-reactive, making it hypoallergenic and gentle on the skin
- Resistant to temperature fluctuations
- Certified according to Oeko-Tex Standard 100, which means the material is also approved for baby products
- All insulation products can also be provided in a version for retrofit installation for an additional charge

Technical Specifications:

	100 mm polyester fiber fleece	**130 mm polyester fiber fleece**
Certified according to DIN 4102; total thickness	**Fire resistance class B2**	**Fire resistance class B2**
• Uncompressed	115 mm	145 mm
• Compressed	100 mm	130 mm
Lambda value	0.0388 W/mK	0.0388 W/mK



Up to 260 mm of Ecoline fleece insulation for all buffer tanks up to 5,000 liters.

The standard insulation can be enhanced with additional insulation up to 260 mm* upon request. This not only allows us to achieve a heat loss of less than 15 W/m²—and thus qualify for KWKG funding—but also a U-value of less than 0.20 W/m²K.

Technical Design:

Insulation Type	Roof Insulation	Sidewall Insulation	Bottom insulation
100 mm	100 mm	100 mm	50 mm
130 mm*	150 mm	130 mm	50 mm
160 mm*	150 mm	160 mm	50 mm
200 mm*	200 mm	200 mm	50 mm
230 mm*	250 mm	230 mm	50 mm
260 mm*	300 mm	260 mm	50 mm

Technical Construction – Surface:

approx. 140 g/m² Black polyester nonwoven (calendered) with approx. 40 g LDPE coating

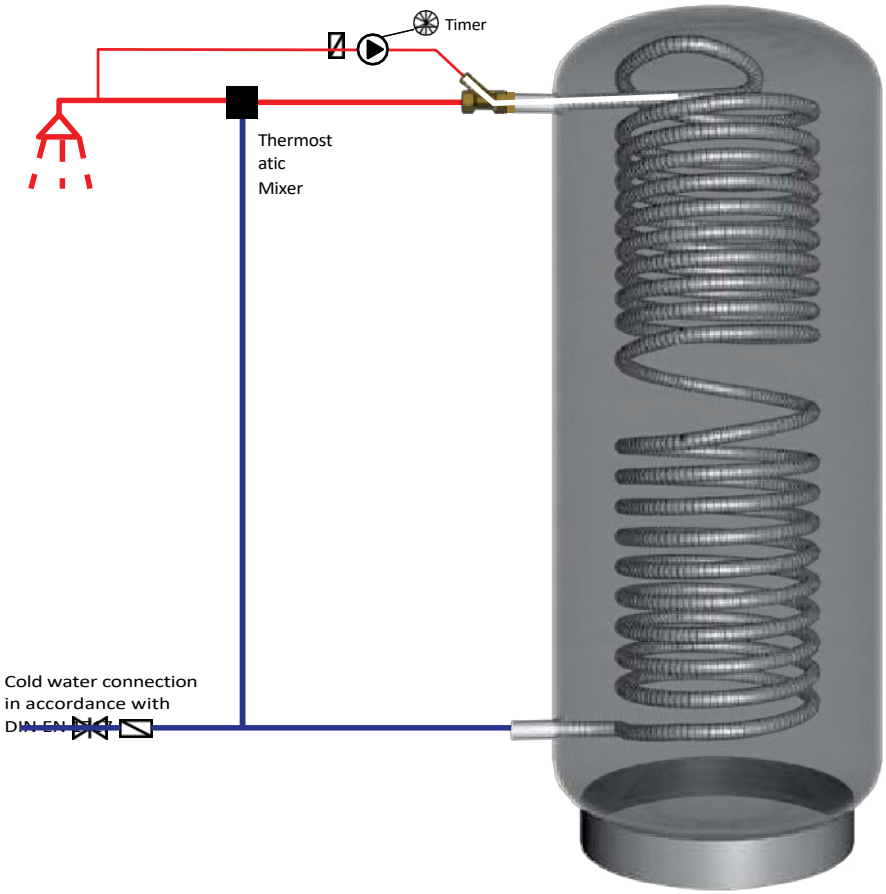
* Extension of the standard 100 mm sockets required on site

10.9 Circulation lance for hygienic tank



- Material: Cuphin
- includes 1 m of plastic tubing
- Includes 1 ¼" to 1" reducer

Part No.	Thread	Includes plastic pipe mm
90607	1"	1000



10.10 Sensor Core Tube



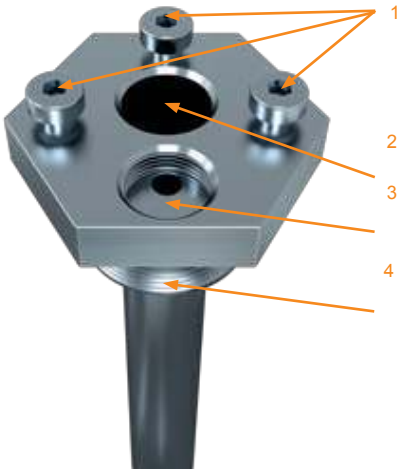
The sensor core tube can be retrofitted into any tank with a vent connection (min. 1 ½" female thread) that has no internal components.

The stainless steel sensor core tube allows for variable positioning of the temperature sensors to optimally adjust the activation and deactivation of buffer tank charging to the hydraulic operating conditions.

Installation of the sensor core tube

- The thread (external thread) of the sensor core tube must be free of debris, clean, and completely dry.
- Then roughen the thread using a suitable tool to ensure the sealing material adheres properly.
- Apply the sealing material [2] (hemp or Teflon tape—not threadlocker) tightly to the thread in a clockwise direction, starting from the beginning of the thread and working toward the end (hexagon). As a rule of thumb, for a 1 ½-inch thread, apply a strand of hemp approximately 4–5 pencil leads thick, with about 10 wraps around the thread. For Teflon tape, depending on the thickness, approximately 15 wraps (± 4 wraps) are required.
- After the connection, the hemp must be coated with thread sealant until the hemp is completely saturated.
- Next, insert the sensor core tube into the designated socket on the upper Klöpper bottom of the tank and push it in all the way. The sensor core tube must be screwed in by hand to prevent the thread from jamming.
- Then, using a suitable tool (SW65), screw the hexagonal end into the socket clockwise until at least ¾ of the formed thread is screwed in.
- When installed correctly, the sensor core tube is firmly connected to the tank and forms an “irremovable connection.”
- The HVAC technician is responsible for testing for leaks.

Part designations:



1 = Hex head screws with internal hex (M6x12 – SW 5) for securing cable ties [1].

These secure the sensor cables to prevent unintended movement.

2 = Sensor core tube, stainless steel 1.4301, DN15 (Ø 21.3 mm x 2 mm) for accommodating sensors.

3 = Air vent connection with ½” female thread.

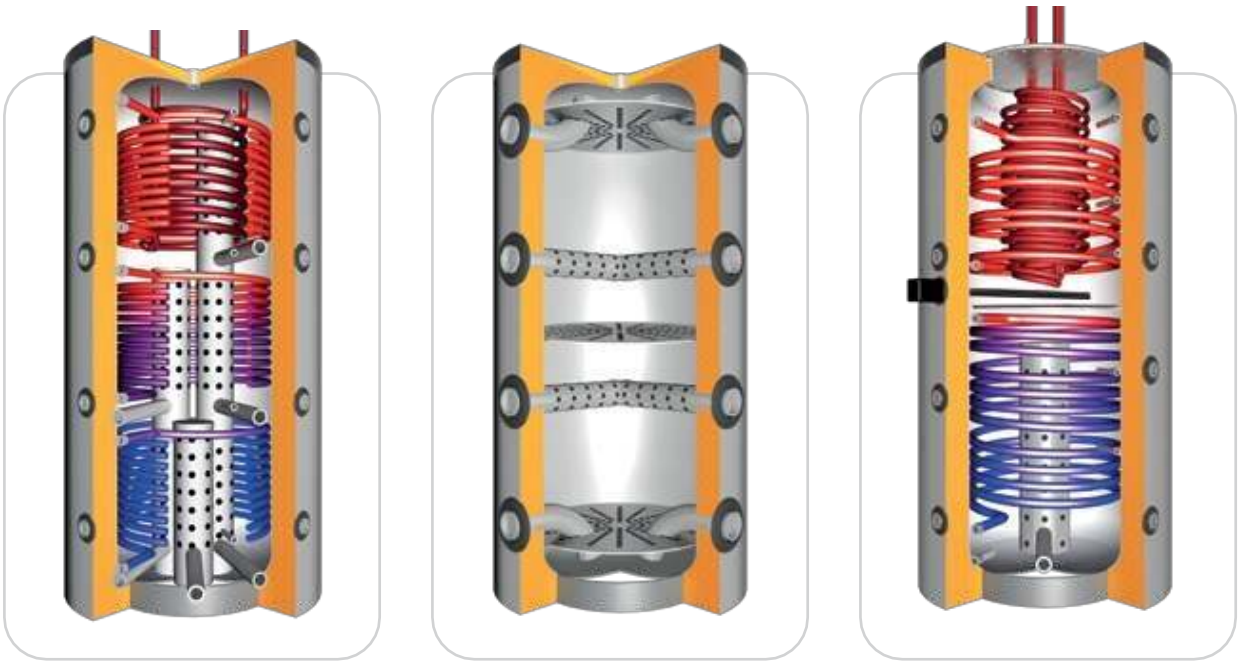
4 = 1 ½” male thread for screwing into a vent sleeve.

[1] Not included in the scope of delivery
[2] See the current version of DIN EN 751-3—must be approved for the intended use.

Jura THERM

Innovative Storage Technology from the Experts

11. CUSTOM TANK



You have the ideas; we have the solutions.



11.1 Our sample sizes—up to 50 ms; other sizes available upon request. Up to 3,000 mm in diameter and 8,150 mm in height

Contents l	Ø mm	Height mm
231	550	1150
277	550	1,350
324	550	1,550
417	650	1,450
482	650	1,650
547	650	1,850
482	700	1,450
557	700	1,650
633	700	1,850
594	750	1,550
681	750	1,750
768	750	1,950
855	750	2,150
633	790	1,500
730	790	1,700
826	790	1,900
894	790	2040
990	790	2,240
757	850	1,550
869	850	1,750
981	850	1,950
1,093	850	2,150
1205	850	2,350
971	900	1,750
1,096	900	1,950
1222	900	2,150
1347	900	2,350
1,112	950	1,800
1,259	950	2010
1392	950	2,200
1,532	950	2,400
1,672	950	2,600

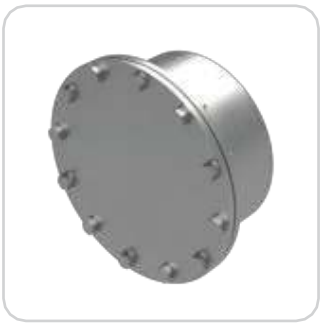
Contents l	Ø mm	Height mm
1345	1000	1950
1500	1000	2150
1655	1000	2,350
1,811	1000	2,550
1,805	1,100	2150
2012	1,100	2,370
2181	1,100	2,550
2,369	1,100	2,750
1961	1,150	2150
2,166	1,150	2,350
2372	1,150	2,550
2,577	1,150	2,750
2,166	1,200	2150
2,389	1,200	2,350
2,612	1,200	2,550
2,836	1,200	2,750
2306	1,250	2150
2,464	1,250	2280
2731	1,250	2,500
2,877	1,250	2,620
3,035	1,250	2,750
3,278	1,250	2,950
3,521	1,250	3,150
3,361	1,400	2,500
3,635	1,400	2,680
4,046	1,400	2,950
4,350	1,400	3,150
4,655	1,400	3,350
3,930	1500	2,500
4,454	1500	2,800
4,979	1500	3,100
5,503	1500	3,400
6203	1500	3,800
6,727	1500	4,100

Contents l	Ø mm	Height (mm)
4323	1600	2,500
4960	1600	2,820
5,518	1600	3,100
6,115	1600	3,400
6,911	1600	3,800
7,508	1600	4,100
5,424	1,800	2,500
6,433	1,800	2900
7,442	1,800	3,300
8,450	1,800	3,700
9,459	1,800	4,100
10,468	1,800	4,500
7,866	2000	2900
9,113	2000	3,300
10,359	2000	3,700
11,606	2000	4,100
12,853	2000	4,500
14,099	2000	4,900
9,425	2,200	2900
10,934	2,200	3,300
12,444	2,200	3,700
13,953	2,200	4,100
15,463	2,200	4,500
16,972	2,200	4,900
11,105	2,400	2900
12,902	2,400	3,300
14,700	2,400	3,700
16,497	2,400	4,100
18,295	2,400	4,500
20,092	2,400	4,900
11,843	2,500	2900
13,791	2,500	3,300
15,739	2,500	3,700
17,687	2,500	4,100
19,635	2,500	4,500
21,583	2,500	4,900

Contents l	Ø mm	Height mm
18,750	2600	3,700
20,857	2600	4,100
22,965	2600	4,500
25,072	2600	4,900
27,180	2600	5,300
29,287	2600	5,700
31,395	2600	6,100
19,512	2,800	3,700
21,958	2,800	4,100
24,403	2,800	4,500
26,849	2,800	4,900
29,294	2,800	5,300
31,740	2,800	5,700
34,185	2,800	6,100
36,631	2,800	6,500
39,076	2,800	6,900
41,522	2,800	7,300
24,866	3,000	3,700
27,671	3,000	4,100
30,476	3,000	4,500
33,281	3,000	4,900
36,086	3,000	5,300
38,891	3,000	5,700
41,696	3,000	6,100
44,501	3,000	6,500
47,306	3,000	6,900
50,111	3,000	7,300

Includes standard rust-proof paint; the price includes 12 ½" to 1 ½" sockets of your choice.

11.2 Fittings



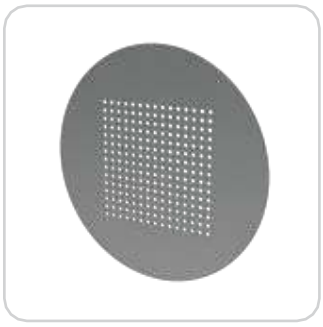
Manhole including blind cover

Available from DN 120 to DN 500



Pre-welded flange

Type: PN 6 to PN 40
Available from DN 32 to DN 500



Perforated sheet / Divider plate

Available in any tank size



heating coil

Available in sizes ranging from 0.6 m² to 24 m²



JPSL charging module

Available for any storage size



stainless steel corrugated pipe

Available from 4.5 m² to 13.5 m²



3D mitered inlet pipe

Available from DN 25 to DN 200



Elbow pipe

Available for any storage size



Single-layer diffuser system

Volume flow rates from 5 m³ to 80 m³ possible

Additional options:

Special paint finishes, sandblasting, coatings (e.g., per AGI Q 151 2K), additional extensions available upon request

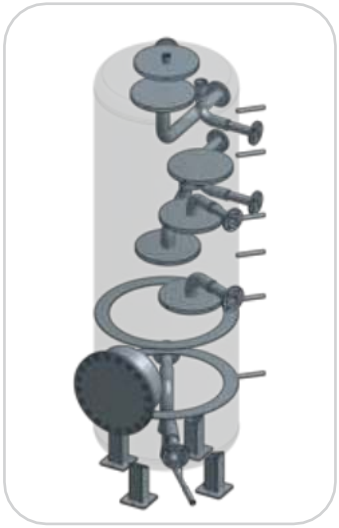
11.3 Key Features 2024



Technical Specifications

ID13701
Diameter: 790 mm
Height: 2150 mm
Capacity: 887 l
Operating pressure: 6 bar
Test pressure: 10 bar

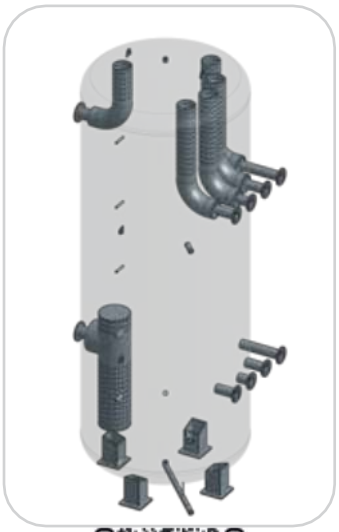
Equipment:
1 x DN 50 / PN 6 socket with elbow pipe and diffuser cone
1 x perforated plate with 40% flow area
5 x DN 65 / PN 6 with elbow
3 x feet 200 x 200 mm



Technical Specifications

ID13805
Diameter: 1000 mm
Height: 3,320 mm
Capacity: 2,263 l
Operating pressure: 6 bar
Test pressure: 10 bar

Equipment:
13 x DN 30 sockets with elbow pipes of varying lengths
1 x flange DN 125 / PN 6
3 x feet 200 x 200 mm
2 x crown eyes
1 x inspection flange 500 / 620
4 x DN 50 flanges with elbow pipes 3 x DN 65 flanges with radial diffusers Ø400



Technical Specifications

ID14304
Diameter: 2000 mm
Height: 5,670 mm
Capacity: 16,031 l
Operating pressure: 3 bar
Test pressure: 6 bar

Equipment:
5 x DN 125 / PN 6 flanges with elbow and diffuser cone
8 x DN 100 / PN 6 flanges with elbow pipes
1 x layer-loading device DN 100



Technical Specifications

ID14421
Diameter: 790 mm
Height: 2050 mm
Capacity: 800 l
Operating pressure: 3 bar
Test pressure: 6 bar

Equipment:
12 x DN 40 sockets
1 x air vent to the outside 1 x air vent to the top
Connection arrangement: 45° 6 x layers of U-shaped plates
2 x sensor terminal strip

Interactive 3D models:

Scan the QR code to view the tank shown above as an interactive 3D model on Onshape.com.

12.1 Solar power control systems from Juratherm-Reparco® Smart versions S + XL available

Juratherm-Reparco®– economical and eco-friendly heating all year round.

The advantages of Juratherm-Reparco®are obvious, as this supplemental heating system not only preserves your existing heating system but also significantly reduces cycling times, ensuring no energy is lost through the chimney.

Homeowners no longer need to worry about how much of their roof space they'll need for electricity generation and how much for hot water production or supplemental heating. Another advantage is that with Juratherm-Reparco®, no renovation work—such as laying pipes—is necessary.

Another advantage is the ease of installation and the fact that no maintenance is required. In addition, Juratherm-Reparco®solutions are independent of existing heating systems or renewable energy generation systems and their components, and can therefore be retrofitted at any time, even in existing facilities. The energy-saving potential, combined with new, efficient heating technology, is enormous.

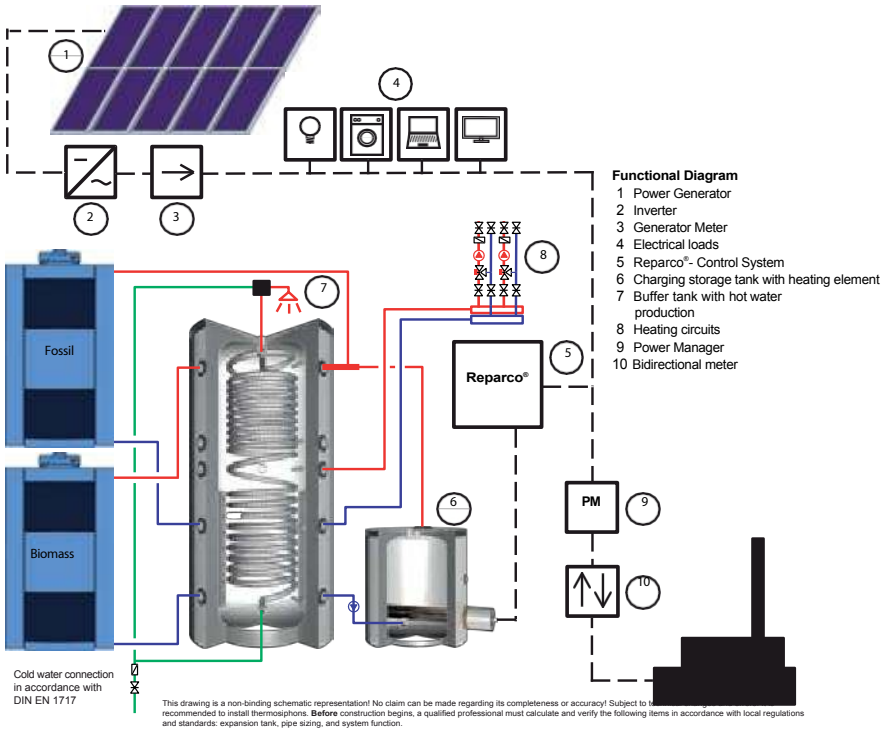
Name	Smart S	Smart XL
Power Connection	230 V	400 V
Max. power	3,000 W	6 kW / 12 kW / 24 kW
Installation Type	Wall-mounted	
Number of Phases	Single-phase	3-phase
Heating element	G 1 1/2″	G 1 1/2″
		Flange 180 / 290

Advantages at a Glance

- Independent of inverters
- Maintenance-free
- Easy installation
- Hot water production
- Heating backup
- Can be retrofitted to all heating systems
- 100% efficiency
- **Continuously variable control of one or more heating elements up to 24 kW is possible**
- Compatible with all 230 V / 400 V heating elements
- Built-in energy management
- No permit required
- More cost-effective than a solar thermal system
- Virtually no internal energy consumption
- Potential-free contact for emergency heating
- Custom solutions up to 450 kW available upon request

Schematic Diagram

The hydraulic connection of the buffer or combi tank to the existing heating system is to be made in the same way as for a solar thermal system.







Juratherm-Reparco®Solar Power Control Systems

12.2 : The Value-Added Solution

Environmentally Friendly and Independent with Juratherm-Reparco®

- Renewable electricity for personal use, hot water heating, and supplemental heating
- Fully automatic and intelligent control of electricity from renewable energy sources (wind, water, sun)
- Easy integration into the home's technical systems
- Developed in accordance with TAB guidelines
- Made in Germany
- Higher efficiency during the winter months
- Energy is stored in a buffer or hygienic tank
- Can be retrofitted to all central heating and hot water systems
- Effective support for heat pumps
- Low investment costs thanks to extremely simple installation
- Not affected by rising energy prices
- No stagnation in the summer
- Maintenance-free
- Environmentally friendly—no CO2 emissions
- Sustainable—solar energy is infinite
- Reduces burner cycling
- Reduces flue gas losses through the chimney

12.3 Sizes and Variants



During the day, when the sun is shining, your solar power system generates the most energy. But it is precisely during the day that many households consume the least energy.

Don't waste this free resource on the utility grid! Store it in your buffer tank using our Juratherm-Reparco®control system and save on conventional fuels.

By using the Juratherm-Reparco®you can use up to 90% of the electricity you generate for your own consumption. The higher your self-consumption of the electricity you generate, the more independent you are from energy providers and fluctuations in energy prices.

Juratherm-Reparco®can be incorporated into any solar power system or retrofitted. Our system is maintenance-free and requires very little space. Depending on your needs, we offer a wide variety of system configurations. For customers who require a system exceeding 90 kW, our service team is available to provide customized solutions. Please feel free to contact us.

Variant	Power V	Range (kW)	Heating Elements	Dimensions mm	Weight kg	Part No.
3KW	230	0-3	1	350 x 240 x 250	3	830104
6 kW	400	0–6	1	250 x 240 x 150	3	830105
12 kW	400	0–12	1	500 x 400 x 150	5	830143
24 kW*	400	0–24	1 (2 x 12 kW)	700 x 500 x 160	10	830095
45 kW*	400	0–45	1 (3 x 15 kW)	800 x 600 x 250	20	830144
90 kW*	400	0–90	2 (3 x 15 kW)	1200 x 800 x 300	70	830145
> 90 kW*	upon request					

* Not compatible with the Dynamica storage tank







12.4 Variants of the Dynamica storage tank

Dynamica storage tanks (see functional diagram on page 139, item 7) are designed to efficiently feed solar energy from the PV system into the system. This type of storage tank ensures that solar energy is optimally distributed throughout the entire buffer tank (see functional diagram on page 139, item 6).

Dynamica	Unit	Dynamica	Dynamica 180	Maxima F1	Maxima F2
Contents	l	42	42	195	195
Ø without insulation	mm	450	450	550	550
Operating pressure (heating)	bar	3	3	3	3
Max. operating temperature	°C	95	95	95	95
Electric Heater Connection		1x 2″	1x 180 mm	1x 290 mm	2x 290 mm
Weight	kg	18	23	61	74
insulation		50 mm fleece insulation		100 mm fleece insulation	
Height with insulation	mm	700	700	1050	1050
Item No. (incl. insulation)		830070	830161	830159	830160

Installation options for an electric heater in the Dynamica tank (Item No. 830070):

Item No.	electric heater			Immersion Depth (mm)	Dynamica
957102	1 ½"		2.0 kW	330	+
957103	1 ½"		3.0 kW	375	+
957105	1 ½"		4.5 kW	470	+
9571061	1 ½"	"short"	6.0 kW	450	+

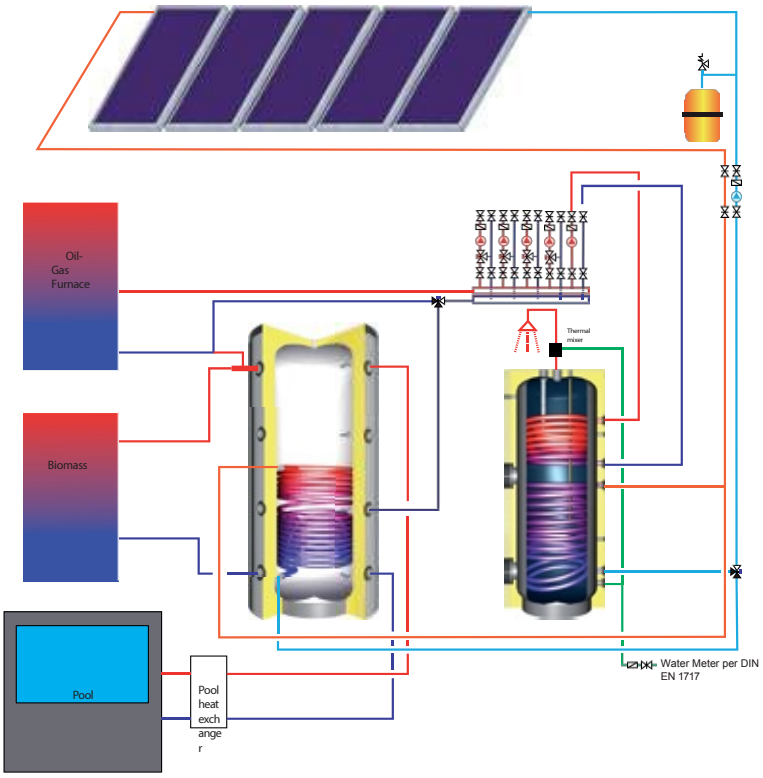
Installation options for flange-mounted heating elements in the Dynamica 180, Maxima F1, and Maxima F2 tanks (Part Nos. 830161, 830159, 830160):

Item No.	Flange Heater		mm	Dynamica 180	Maxima F1	Maxima F2[2]
957206	180-8	3 / 4 / 6 kW	380	+	-	-
957208	180-8	4 / 5 / 8 kW	420	+	-	-
957210	180-8	5 / 6.5 / 10 kW	510	+	-	-
957212[1]	180-8	12 kW	530	+	-	-
957209[1]	290-12	9 kW	530	-	+	+
957224[1]	290-12	12 / 16 / 24 kW	630	-	+	+
957245[1]	290-12	25 / 30 / 45 kW	630	-	+	+

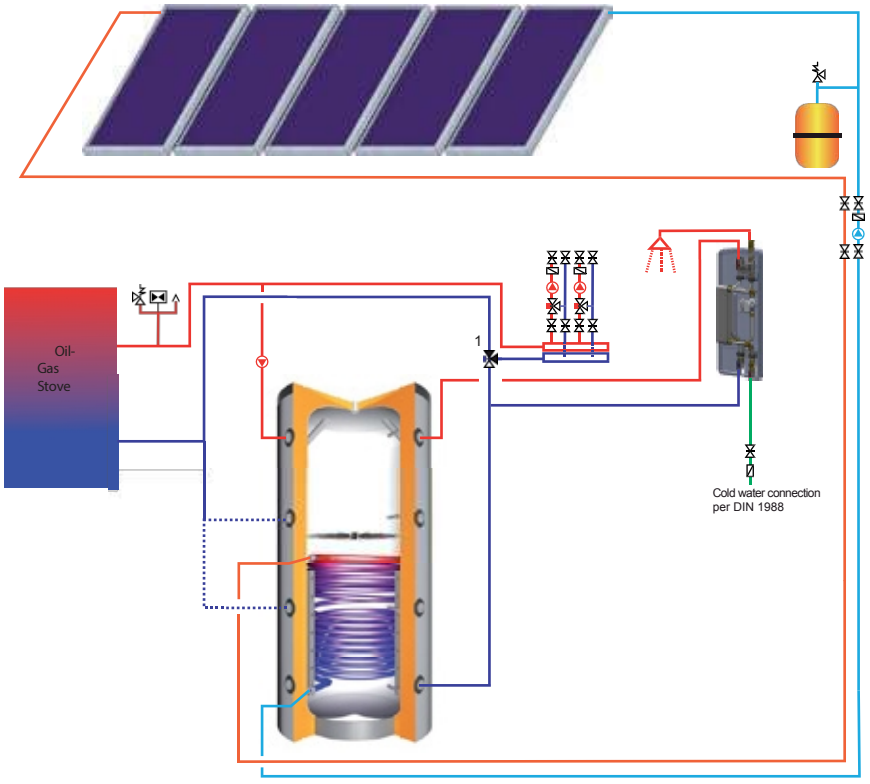
+ = Installation possible
- = Installation not possible
[1] = An external contactor control must be provided by the customer for this purpose
[2] = Installation of 2 flange heaters is possible

13.1 Installation Schematics

JPSR, biomass, oil-gas boiler, solar, JSRS, pool, manifold



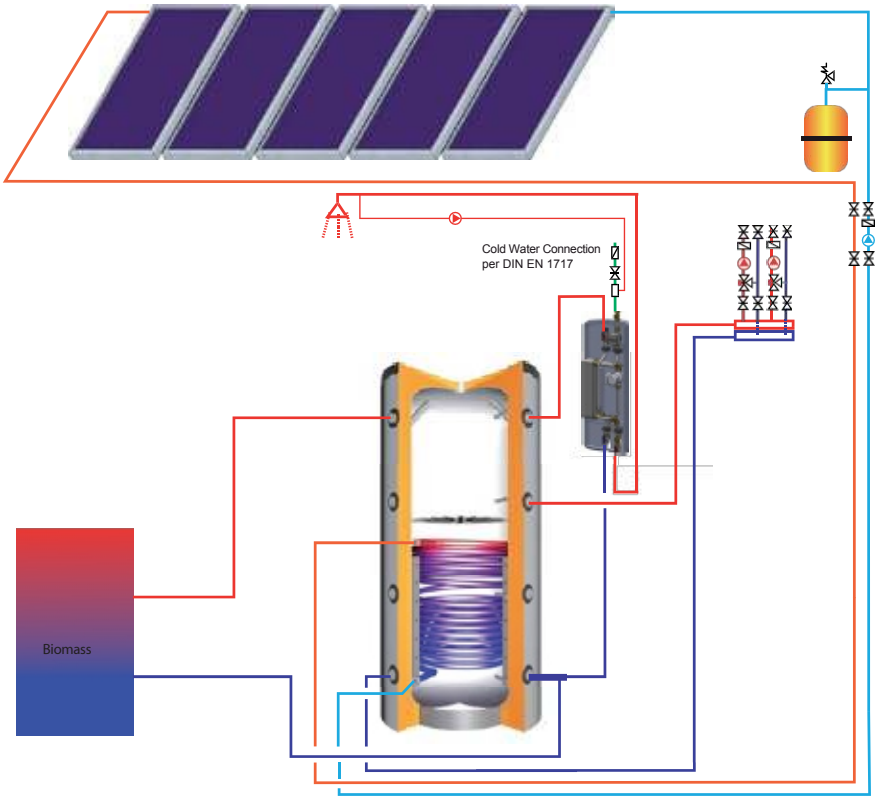
JPSLR, Oil-Gas Boiler, Solar, JFWS 35, Distributor



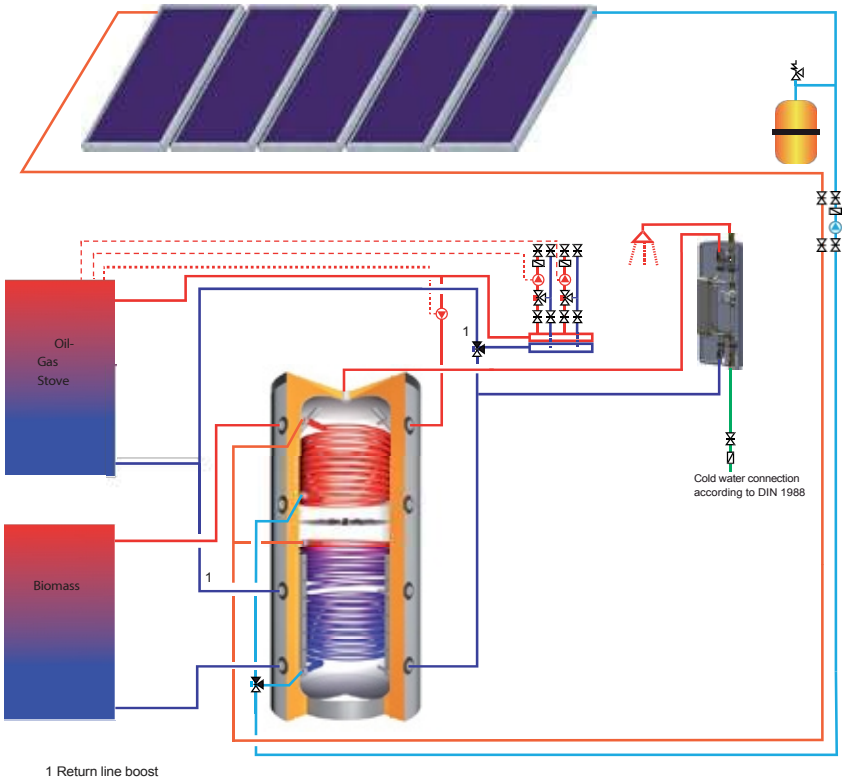
These drawings are schematic representations and are provided for illustrative purposes only; no claim to completeness or accuracy can be made.
The specialized contractor is solely responsible for planning and installation.

13.1 Installation Diagrams

JPSLR, Biomass, Solar, JFWS 35, Manifold



JPSLRR, Biomass, Oil-Gas Boiler, Solar, JFWS 35, Manifold

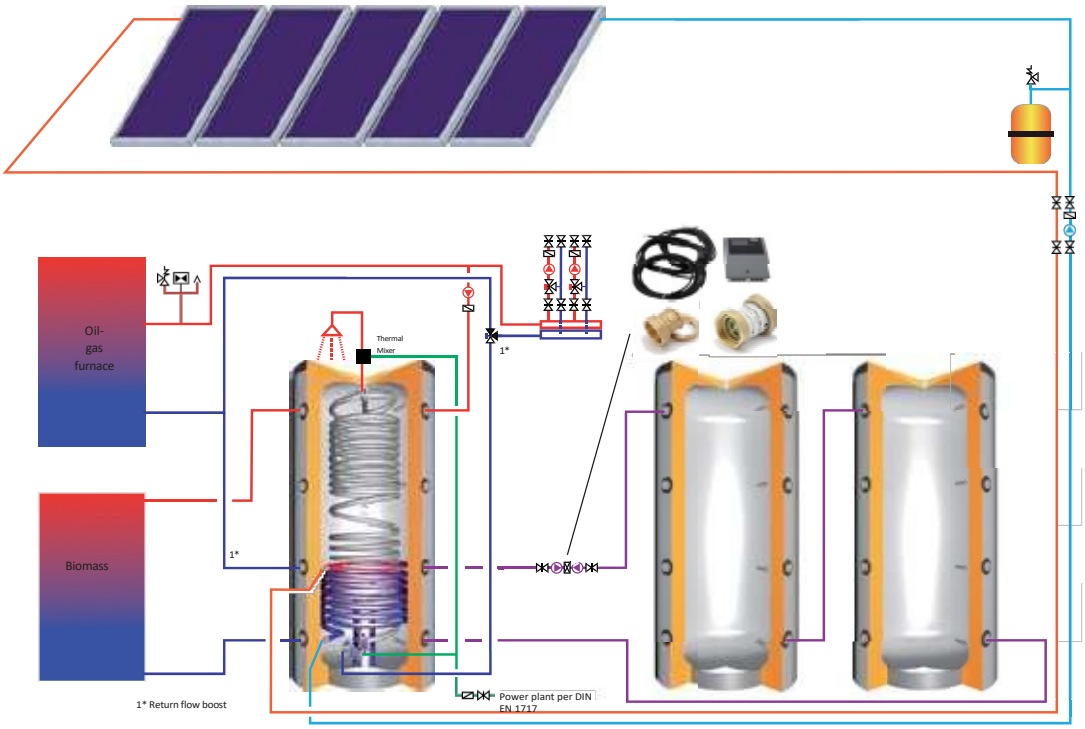


1 Return line boost

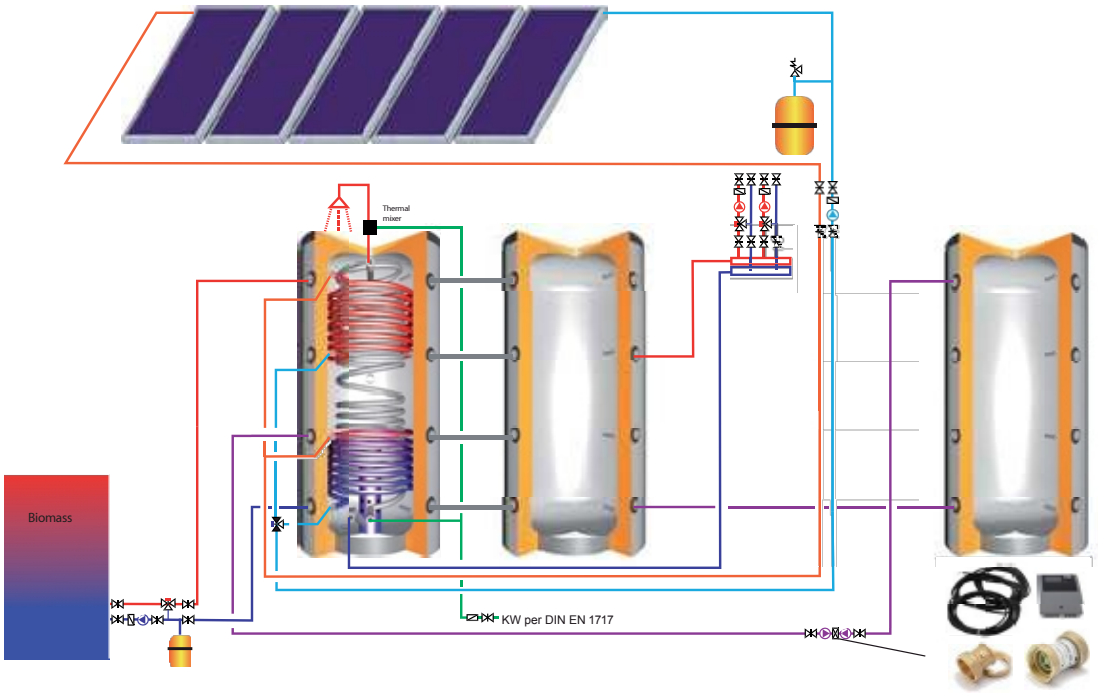
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13.1 Installation Diagrams

Hygienic tank, 2 x JPSM (transfer), biomass, oil-gas boiler, solar, distribution manifold



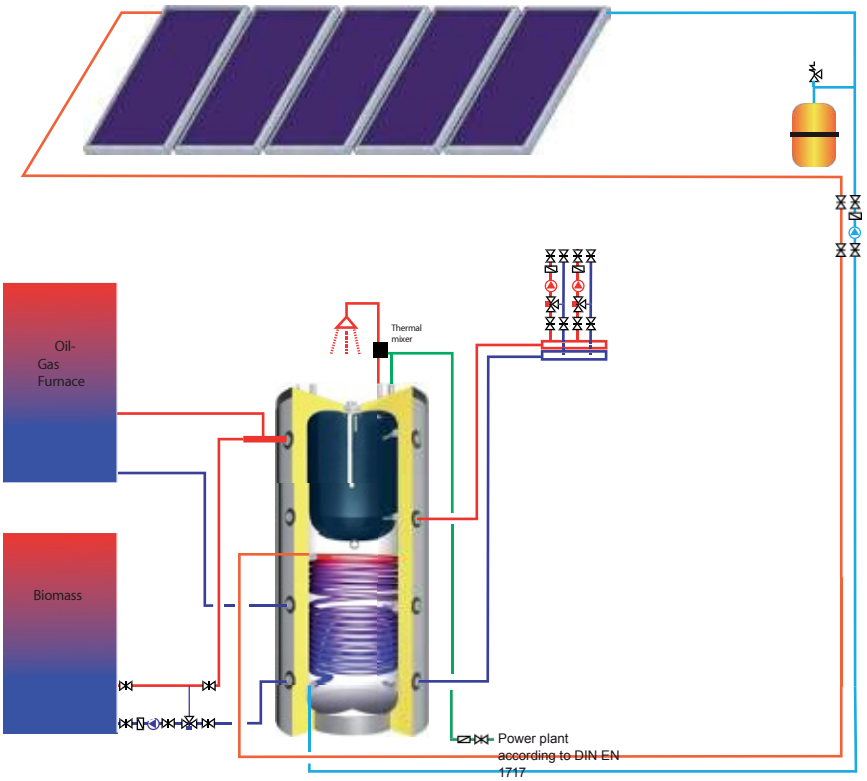
Hygienic tank, parallel JPSM, JPSM (transfer), biomass, solar, manifold



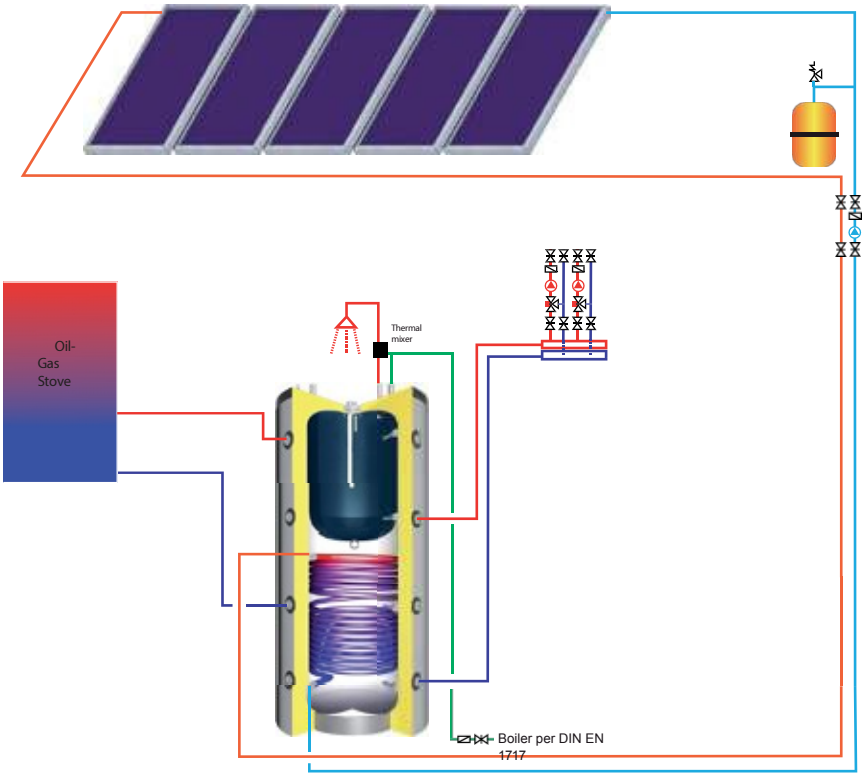
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13.1 Installation Diagrams

JHKE (as a hydraulic diverter), biomass, oil-gas boiler, solar, manifold



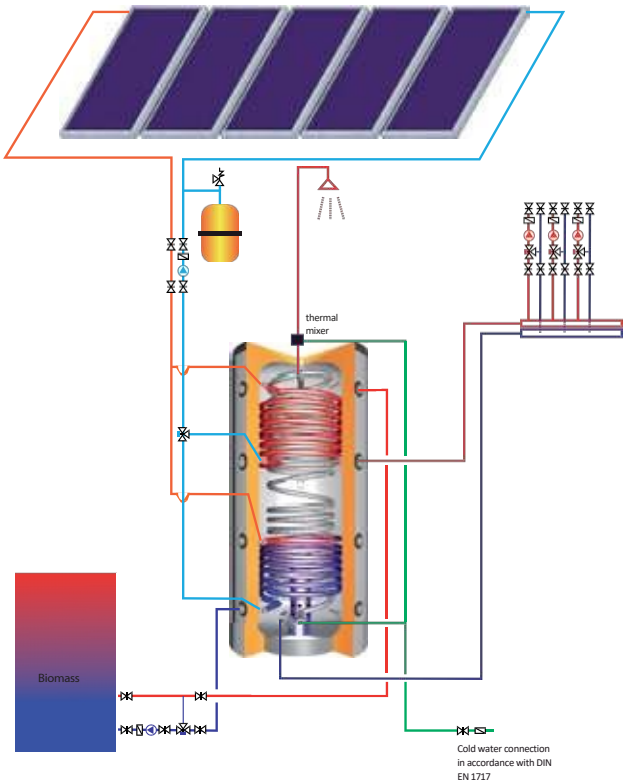
JHKE (as a hydraulic diverter), oil-gas boiler, solar, manifold



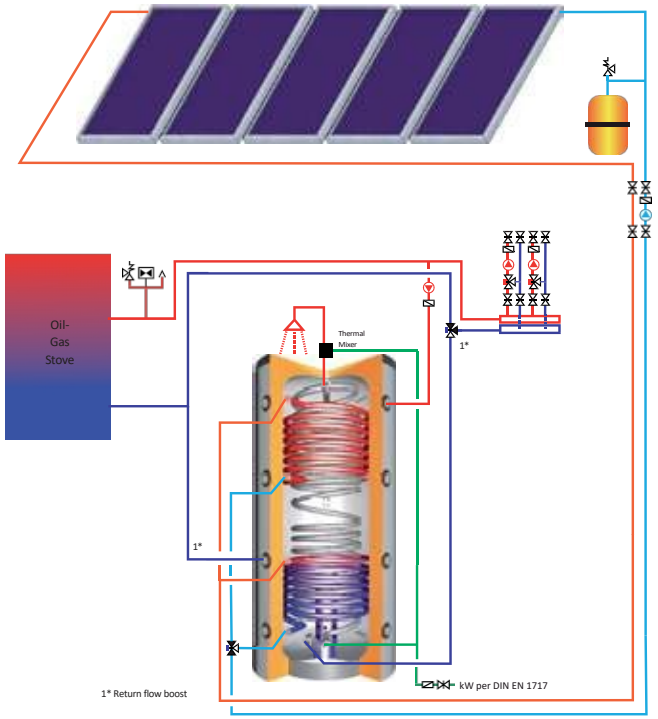
These drawings are schematic representations and are provided for illustrative purposes only; no claim to completeness or accuracy can be made. The specialized contractor is solely responsible for planning and execution.

13.1 Installation Schematics

Hygienic tank, biomass, solar, distribution



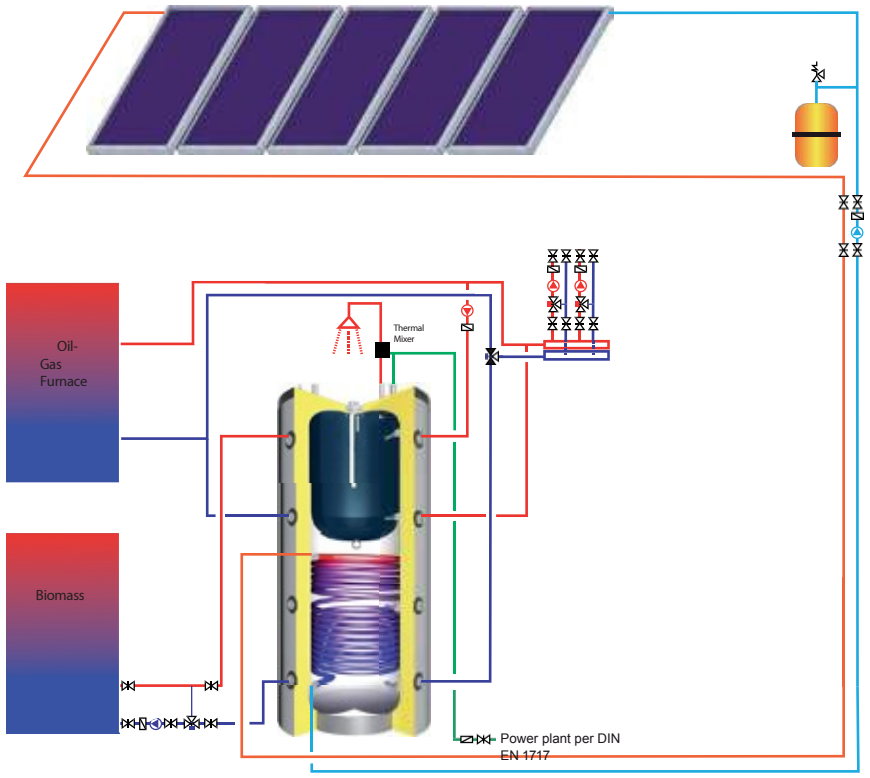
Hygienic tank, oil-gas boiler, solar, manifold



These drawings are schematic representations and are provided for illustrative purposes only; no claim to completeness or accuracy can be made.
The specialized contractor is solely responsible for planning and installation.

13.1 Installation Schematics

JHKE, biomass, oil-gas boilers, solar, distribution manifolds



These drawings are schematic representations and are provided for illustrative purposes only; no claim to completeness or accuracy can be made. The specialized contractor is solely responsible for planning and execution.