S-TANK

PRODUCT CATALOGUE
2023

ENG

Company Profile

The company "S-TANK" is an enterprise using European technologies and capital. The main activity of the company is the production of heat and cold storage tanks and indirect heating boilers made of enameled steel, as well as stainless steel for use in heating, hot water supply, and conditioning systems. The company includes two factories with a total area of over 7000 m2, located 25 and 50 km from the capital of the Republic of Belarus, the city of Minsk. All factories have been equipped with the most modern European equipment, meeting the highest requirements in the field of ecology and safety. One of the priorities of the company is to produce environmentally friendly products and avoid emissions of harmful substances during its production. We also pay great attention to product quality and its subsequent disposal after the end of its service life. All our products are dismantlable, allowing the separation of metal, insulation, and packaging, which in turn makes disposal convenient and inexpensive.

In the production of our products, "S-TANK" uses only clean cold-rolled grades of steel. For the production of enameled indirect heating tanks at our factories, high-quality German enamel coating is used. Regarding the corrosion protection of our products, our consultants are leading German companies.

Our products are sold in 13 countries, including European Union countries and Asian markets.

Thank you for your attention and choosing our products.

P-Crystal Series (floor tank)

Enamelled indirect heating tank for hot water supply with one heat exchanger
Scope of use: Hot water supply heating and storage
Tank volume: 150 up to 300 litres

Advantages:
- Best-in-class thermal insulation (A, B class - ErP).
- The largest magnesium anode in its class made in Germany.
- Inspection flange available.
- Possibility of heating element installation (1 ½" up to and including 500 litres, 2" from 750 litres and above).
- Hot water supply recirculation
- Premium German enamel coating with increased resistance to soft water.
- Possibility of titanium anode installation.
- Optional possibility of tank design modification according to a customer drawing.

Tank Specifications	Un.of meas.	P-Crystal 150	P-Crystal 200	P-Crystal 300
Tank volume with heat exchanger	l	157	211	280
Tank height	mm	1172	1335	1690
Tank diameter without insulation	mm	505	505	505
Tank diameter with insulation:				
Polyurethane foam of 80-85 mm	mm	590	590	590
Total weight	kg	78	85	112
Package dimensions: D*W*H	mm	725*600*1172	630*600*1335	630*600*1690
Diameter of upper hot water supply pipe connection (external thread)	"	1	1	1
Diameter of heating element installation pipe (internal thread)	"	1 1/2	1 1/2	1 1/2
Capacity and performance				
Recommended maximum capacity of the electric heating element	kW	3--6	3--6	3--6
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	146/73	195/98	293/146
from a boiler with a capacity of				
18 kW	min	24	32	49
24 kW	min		24	37
32 kW	min			27
40 kW	min			24
Tank performance in the first hour of operation at maximum capacity on heat exchanger and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	702	756	1111
Heat exchanger				
Heat exchanger area	sq.m	1,1	1,1	1,7
Heat exchanger capacity	kW	26,4	26,4	40,8
Heat exchanger friction loss				
At a flow rate of 0.5 m3/h	bar	0,003	0,003	0,005
At a flow rate of 2.2 m3/h	bar	0,037	0,047	0,070
At a flow rate of 3.8 m3/h	bar	0,112	0,140	0,210
At a flow rate of 5.4 m3/h	bar	0,204	0,256	0,384
At a flow rate of 7.1 m3/h	bar	0,290	0,364	0,546
Pressure and Temperatures				
Heat exchanger volume	Liters	4,6	5,8	8,7
Maximum heat exchanger temperature	C	95	95	95
Maximum tank temperature	C	80	80	80
Maximum heat exchanger pressure	bar	6	6	6
Maximum tank pressure	bar	6	6	6
Tank corrosion protection				
Magnesium anode size	mm	650*26	850*26	850*26
Active titanium anode control unit		G2/Gn	G2/Gn	G2/Gn
Active titanium anode length	mm	400/200	600/200	600/200

P-Series (floor tank)

Enamelled indirect heating tank for hot water supply with one heat exchanger
Scope of use: Hot water supply heating and storage
Tank volume: 150 up to 2000 litres

Advantages:

- Best-in-class thermal insulation (A, B class - ErP).
- Removable thermal insulation.
- The largest magnesium anode in its class made in Germany.
- Inspection flange available.
- Possibility of heating element installation (1 ½" up to and including 500 litres, 2" from 750 litres and above).
- Hot water supply recirculation
- Premium German enamel coating with increased resistance to soft water.
- Possibility of titanium anode installation.
- Optional possibility of tank design modification according to a customer drawing.

Tank Specifications	Un.of meas.	P 150	P 200	P 300	P. 400	P. 500	P. 750	P. 1000	P. 1500	P. 2000
Tank volume with heat exchanger	l	157	211	280	390	480	690	920	1525	1980
Tank height	mm	980	1250	1600	1410	1680	1630	2200	2370	2600
Tank diameter without insulation	mm	505	505	505	655	655	795	795	950	1050
Tank diameter with insulation:										
Removable polyurethane foam of 37-40 mm	mm	575	575	575	725	725	-	-		
Removable polyester insulation of 65-70 mm	mm	630	630	630	780	780	920	920	1070	1180
Weight with corrugated steel heat exchanger	kg	42	49	60	80	85	150	170	211	257
Weight with plain steel heat exchanger	kg	55	65	84	112	117	178	198	273	319
Package dimensions: D*W*H	mm	700*800*1230	700*800*1500	700*800*1800	800*900*1700	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2500	1300*1400*2800
Diameter of upper hot water supply pipe connection (external thread)	"	1	1	1	1	1	1 1/4	1 1/4	1 1/4	1 1/4
Diameter of heating element installation pipe (internal thread)	"	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2
Capacity and performance										
Recommended maximum capacity of the electric heating element	kW	3--6	3--6	3--6	6--9	6--9	6--15	6--15	6--15	6--15
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	146/73	195/98	293/146	390/196	488/245	732/368	976/488	1465/976	1952/976
from a boiler with a capacity of 18 kW	min	24	32	49	65	81	122	163	245	326
24 kW	min		24	37	49	61	92	122	183	244
32 kW	min			27	37	46	69	92	138	184
40 kW	min			24	29	37	55	73	110	146
Tank performance in the first hour of operation at maximum capacity on heat exchanger and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	603	769	1117	1505	1595	1805	2259	3644	4149
Heat exchanger										
Heat exchanger area	sq.m	0,8	1	1,5	2	2	2	2,4	3,8	3,8
Heat exchanger capacity	kW	19,2	24	36	48	48	48	57,6	91,2	91,2
Heat exchanger friction loss										
At a flow rate of 0.5 m3/h	bar	0,003	0,003	0,005	0,006	0,006	0,006	0,008	0,012	0,012
At a flow rate of 2.2 m3/h	bar	0,037	0,047	0,070	0,093	0,093	0,093	0,112	0,177	0,177
At a flow rate of 3.8 m3/h	bar	0,112	0,140	0,210	0,279	0,279	0,279	0,335	0,531	0,531
At a flow rate of 5.4 m3/h	bar	0,204	0,256	0,384	0,511	0,511	0,511	0,614	0,973	0,973
At a flow rate of 7.1 m3/h	bar	0,290	0,364	0,546	0,727	0,727	0,727	0,873	1,384	1,384
Pressure and Temperatures										
Heat exchanger volume	Liters	4,2	5,3	7,9	10,6	10,6	10,6	12,7	20,1	20,1
Maximum heat exchanger temperature	C	95	95	95	95	95	95	95	95	95
Maximum tank temperature	C	80	80	80	80	80	80	80	80	80
Maximum heat exchanger pressure	bar	6	6	6	6	6	6	6	6	6
Maximum tank pressure	bar	6	6	6	6	6	6	6	6	6
Tank corrosion protection										
Magnesium anode size	mm	650*26	650*26	950*26	850*33	850*33	1250*33	1250*33	850*33+1250*33	2*1250*33
Active titanium anode control unit		G2/Gn	G2/Gn	G2/Gn	G2/Gn	G2/Gn	H/Hn	H/Hn	H/Hn	H/Hn
Active titanium anode length	mm	400/200	600/200	600/200	600/200	600/200	2*(200/200)	2*(200/200)	2*(150/400)	2*(200/400)

P-2 Series (floor tank)

Enamelled indirect heating tank for hot water supply with two heat exchangers
Scope of use: Hot water supply heating and storage
Tank volume: 200 up to 2000 litres

Advantages:
- Best-in-class thermal insulation (A, B class - ErP).
- Removable thermal insulation.
- The largest magnesium anode in its class made in Germany.
- Inspection flange available.
- Heating element can be installed (1 ½" up to and including 500 litres, 2" from 750 litres and above).
- Hot water supply recirculation.
- Premium German enamel coating, with increased resistance to soft water.
- Possibility of titanium anode installation.
- Optional possibility of tank design modification according to a customer drawing.

Specifications	Un. of meas.	P-2 200	P-2 300	P-2 400	P-2 500	P-2 750	P-2 1000	P-2 1500	P-2 2000
Tank volume with heat exchanger	l	211	280	390	480	690	920	1525	1980
Tank height	mm	1250	1600	1410	1680	1630	2200	2370	2600
Tank diameter without insulation	mm	505	505	655	655	795	795	950	1050
Tank diameter with insulation:									
Removable polyurethane foam of 37-40 mm	mm	575	575	725	725	-	-		
Removable polyester insulation of 65-70 mm	mm	630	630	780	780	920	920	1070	1180
Weight with corrugated steel heat exchanger	kg	49	60	80	85	150	170	211	257
Weight with plain steel heat exchanger	kg	65	84	112	117	178	198	273	319
Package dimensions: D*W*H	mm	700*800*1500	700*800*1800	800*900*1700	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2500	1300*1400*2800
Diameter of upper hot water supply pipe connection (external thread)	"	1	1	1	1	1 1/4	1 1/4	1 1/4	1 1/4
Diameter of heating element installation pipe (internal thread)	"	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2
Capacity and performance									
Recommended maximum capacity of the electric heating element	kW	3--6	3--6	6--9	6--9	6--15	6--15	6--15	6--15
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	195/98	293/146	390/196	488/245	732/366	976/488	1465/976	1952/976
from a boiler with a capacity of 18 kW	min	32	49	65	81	122	163	245	326
24 kW	min	24	37	49	61	92	122	183	244
32 kW	min		27	37	46	69	92	138	184
40 kW	min		24	29	37	55	73	110	146
Tank performance in the first hour of operation at maximum capacity on lower heat exchanger and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	769	1117	1505	1595	1805	2259	3644	4149
Tank performance in the first hour of operation at maximum capacity on lower and upper heat exchangers and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	1215	1674	2063	2153	2475	2928	5764	6269
Lower heat exchanger									
Heat exchanger area	sq.m	1	1,5	2	2	2	2,4	3,8	3,8
Heat exchanger capacity	W	24	36	48	48	48	57,6	91,2	91,2
Heat exchanger friction loss									
At a flow rate of 0.5 m3/h	bar	0,003	0,005	0,006	0,006	0,006	0,008	0,012	0,012
At a flow rate of 2.2 m3/h	bar	0,047	0,070	0,093	0,093	0,093	0,112	0,177	0,177
At a flow rate of 3.8 m3/h	bar	0,140	0,210	0,279	0,279	0,279	0,335	0,531	0,531
At a flow rate of 5.4 m3/h	bar	0,256	0,384	0,511	0,511	0,511	0,614	0,973	0,973
Heat exchanger volume	liters	5,3	7,9	10,6	10,6	10,6	12,7	20,1	20,1
Upper heat exchanger									
Heat exchanger area	sq.m	0,8	1	1	1	1,2	1,2	3,8	3,8
Heat exchanger capacity	kW	19,2	24	24	24	28,8	28,8	91,2	91,2
Heat exchanger friction loss									
At a flow rate of 0.5 m3/h	bar	0,002	0,003	0,003	0,003	0,004	0,004	0,012	0,012
At a flow rate of 2.2 m3/h	bar	0,035	0,047	0,047	0,047	0,059	0,059	0,179	0,179
At a flow rate of 3.8 m3/h	bar	0,100	0,140	0,140	0,140	0,210	0,210	0,532	0,532
Heat exchanger volume	liters	4,2	5,3	5,3	5,3	6,4	6,4	20,1	20,1
Pressure and Temperatures									
Maximum heat exchanger temperature	C	95	95	95	95	95	95	95,0	95,0
Maximum tank temperature	C	80	80	80	80	80	80	80,0	80,0
Maximum heat exchanger pressure	bar	6	6	6	6	6	6	6,0	6,0
Maximum tank pressure	bar	6	6	6	6	6	6	6,0	6,0
Tank corrosion protection									
Magnesium anode size	mm	650*26	950*26	850*33	850*33	1250*33	1250*33	850*33+1250*33	2*1250*33
Active titanium anode control unit		G2/Gn	G2/Gn	G2/Gn	G2/Gn	H/Hn	H/Hn	H/Hn	H/Hn
Active titanium anode length	mm	600/200	600/200	600/200	600/200	2*(200/200)	2*(200/200)	2*(150/400)	2*(200/400)

PW-Serie (wall and floor tank)

Wall-Floor Indirect Water Heater
Application Area - Accumulation and storage of heated domestic hot water
Tank volume from 120 to 200 liters.

Advantages:
The "RW" series tank improves the flexibility of the DHW system, allowing you to accumulate a constant volume of hot water and use DHW recirculation for increased comfort.
The possibility of connecting an electric heater to the 1 1/2 inch internal thread hole at the bottom of the tank makes the tank more versatile.
The tank can work in conjunction with the following heat sources:
Solid fuel boiler.
Biomass boiler.
Pellet boiler.
Fireplace with a water jacket.
Gas boiler.
Electric boiler.
Solar collector.

Optionally available:
Order a boiler with outlets on the left side (marked as PWL) and on the right side (marked as PWR).
Order a 2-6 kW electric heating element (not included in the standard configuration).).

Tank Specifications	Un.of meas.	PW 120	PW 150	PW 200
Tank volume with heat exchanger	l	110	157	211
Tank height	mm	770	980	1250
Tank diameter without insulation	mm	505	505	505
Tank diameter with insulation:				
Polyurethane foam of 80-85 mm	mm	585	585	585
Total weight	kg	48	55	65
Package dimensions: D*W*H	mm	600*600*1230	600*600*1230	600*600*1500
Diameter of upper hot water supply pipe connection (external thread)	"	3/4	3/4	3/4
Diameter of heating element installation pipe (internal thread)	"	1 1/2	1 1/2	1 1/2
Capacity and performance				
Recommended maximum capacity of the electric heating element	kW	3--6	3--6	3--6
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	146/73	146/73	195/98
from a boiler with a capacity of 18 kW	min	24	24	32
24 kW	min			24
32 kW	min			
40 kW	min			
Tank performance in the first hour of operation at maximum capacity on heat exchanger and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	603	603	769
Heat exchanger				
Heat exchanger area	sq.m	0,8	0,8	1
Heat exchanger capacity	kW	19,2-28	19,2-28	24-35
Pressure and Temperatures				
Heat exchanger volume	Liters	4,2	4,2	5,3
Maximum heat exchanger temperature	C	95	95	95
Maximum tank temperature	C	80	80	80
Maximum heat exchanger pressure	bar	6	6	6
Maximum tank pressure	bar	6	6	6
Tank corrosion protection				
Magnesium anode size	mm	450*22 - 2ps.	450*22 - 2ps.	450*22 - 2ps.
Active titanium anode control unit		G2/Gn	G2/Gn	G2/Gn
Active titanium anode length	mm	400/200	600/200	600/200

SOLAR SS (AISI 304 stainless steel)

Indirect heating tank of stainless steel for hot water supply with one heat exchanger
Scope of use: Hot water supply heating and storage
Tank volume: 150 up to 3000 litres

Advantages:

- Best-in-class thermal insulation of polyester fiber (fire-resistance class B-s2d0)
- Removable thermal insulation.
- The largest magnesium anode in its class made in Germany.
- Possibility of heating element installation (1 ½" up to and including 500 litres, 2" from 750 litres and above).
- Hot water supply recirculation.
- Possibility of titanium anode installation (permanent, nonreplaceable and non-serviceable anode, which will protect the water heater from harmful effects of chlorides and sulfates).
- Optional possibility of tank design modification according to a customer drawing.

Tank Specifications	Un. of meas.	SOLAR SS 150	SOLAR SS 200	SOLAR SS 300	SOLAR SS 500	SOLAR SS 750	SOLAR SS 1000	SOLAR SS 1200	SOLAR SS 1500	SOLAR SS 2000	SOLAR SS 3000
Tank volume with heat exchanger	l	150	200	295	485	703	995	1200	1525	2030	3500
Tank height	mm	945	1220	1600	1605	1630	2205	2020	2370	2100	2210
Tank diameter without insulation	mm	500	500	500	650	790	790	950	950	1220	1600
Tank diameter with insulation:											
Removable polyester insulation	mm	630	630	630	780	920	920	1080	1080	1350	1740
Weight with heat exchanger	kg	49	56	69	92	108	136	179	206	256	460
Package dimensions: D*W*H	mm	700*800*1230	700*800*1500	700*800*1800	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2100	1130*1050*2500	1400*1500*2200	1800*1900*2400
Diameter of upper hot water supply pipe connection (external thread)	"	1	1	1	1	1	1	1	1	2	1
Diameter of heating element installation pipe (internal thread)	"	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2	2	2
Capacity and performance											
Recommended maximum capacity of the electric heating element	kW	3--6	3--6	3--6	6--9	6--15	6--15	6--15	6--15	6--15	6--15
Tank heating time from 8 up to 50 degrees											
from a heating element with a capacity of 3/6 kW	min	146/73	195/98	293/146	488/244	732/366	977/488	1172/586	1465/732	1954/976	2931/1465
from a boiler with a capacity of											
18 kW	min	24	32	49	81	122	163	195,6	244,5	326	489
24 kW	min		24	37	61	92	122	146,4	183	244	366
32 kW	min			27	46	69	92	110,4	138	184	276
40 kW	min			24	37	55	73	87,6	109,5	146	219
Tank performance in the first hour of operation at maximum capacity on heat exchanger and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	603	769	1117	1595	1805	2259	3306	3644	6399	6230
Heat exchanger											
Heat exchanger area	sq.m	0,8	1	1,5	2	2	2,4	2,8	3,8	5,8	5,8
Heat exchanger capacity	kW	19,2	24	36	48	48	57,6	67	91	139	139
Heat exchanger friction loss											
At a flow rate of 0.5 m3/h	bar	0,003	0,003	0,005	0,006	0,006	0,008	0,009	0,012	0,018	0,018
At a flow rate of 2.2 m3/h	bar	0,037	0,047	0,070	0,093	0,093	0,112	0,131	0,177	0,270	0,270
At a flow rate of 3.8 m3/h	bar	0,112	0,140	0,210	0,279	0,279	0,335	0,392	0,531	0,811	0,811
At a flow rate of 5.4 m3/h	bar	0,204	0,256	0,384	0,511	0,511	0,614	0,717	0,973	1,485	1,485
At a flow rate of 7.1 m3/h	bar	0,290	0,364	0,546	0,727	0,727	0,873	1,020	1,384	2,112	2,112
At a flow rate of 8.7 m3/h	bar	0,482	0,604	0,906	1,207	1,207	1,449	1,692	2,297	3,505	3,505
Pressure and Temperatures											
Heat exchanger volume	liters	4,2	5,3	7,9	10,6	10,6	12,7	14,8	20,1	30,7	30,7
Maximum heat exchanger temperature	C	95	95	95	95	95	95	95	95	95	95
Maximum tank temperature	C	80	80	80	80	80	80	80	80	80	80
Maximum heat exchanger pressure	bar	6	6	6	6	6	6	6	6	6	6
Maximum tank pressure	bar	6	6	6	6	6	6	6	6	6	6
Tank corrosion protection											
Magnesium anode size	mm	450*22	450*22	900*22	900*22	900*22	1350*22	1350*22	1800*22	1800*22	1800*22
Active titanium anode control unit		Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x
Length of active titanium anode (holder/active part)	mm	100/200	100/400	300/400	300/400	1* (100/400) hor. 1*(200/400) vert.	1*(100/400) hor. 1*(200/400) vert.	1*(100/400) hor. 1*(200/400) vert.	1*(100/400) hor. 1*(200/400) vert.	1*(100/600) hor. 1*(100/800) vert.	1*(100/800) hor. 1*(100/800) vert.

SOLAR SS DUO

(AISI 304 stainless steel)

Indirect heating tank of stainless steel for hot water supply with two heat exchangers
Scope of use: Hot water supply heating and storage
Tank volume: 200 up to 3000 litres.

Advantages:

- Best-in-class thermal insulation of polyester fiber (fire-resistance class B-s2d0)
- Removable thermal insulation.
- The largest magnesium anode in its class made in Germany.
- Possibility of heating element installation (1 ½" up to and including 500 litres, 2" from 750 litres and above).
- Hot water supply recirculation.
- Possibility of titanium anode installation (permanent, non-replaceable and non-serviceable anode, which will protect the water heater from harmful effects of chlorides and sulfates).
- Optional possibility of tank design modification according to a customer drawing.

Tank Specifications	Un. of meas.	SOLAR SS DUO200	SOLAR SS DUO300	SOLAR SS DUO500	SOLAR SS DUO750	SOLAR SS DUO1000	SOLAR SS DUO1200	SOLAR SS DUO1500	SOLAR SS DUO2000	SOLAR SS DUO3000
Tank volume with heat exchanger	l	200	295	485	703	995	1200	1525	2030	3500
Tank height	mm	1220	1600	1605	1630	2205	2020	2370	2100	2210
Tank diameter without insulation	mm	500	500	650	790	790	950	950	1220	1600
Tank diameter with insulation:										
Removable polyester insulation	mm	630	630	780	920	920	1070	1070	1350	1740
Weight with heat exchanger	kg	58	72	95	111	143	186	213	261	480
Package dimensions: D*W*H	mm	600*600*1500	600*600*1800	750*750*1800	900*900*1800	900*900*2350	1050*1050*2100	1050*1050*2500	1450*1450*2300	1800*1800*2450
Diameter of upper hot water supply pipe connection (external thread)	"	1	1	1	1	1	1	1	1	2
Diameter of heating element installation pipe (internal thread)	"	1 1/2	1 1/2	1 1/2	2	2	2	2	2	2
Capacity and performance										
Recommended maximum capacity of the electric heating element	kW	3--6	3--6	6--9	6--15	6--15	6--15	6--15	6--15	6--15
Tank heating time from 8 up to 50 degrees from a heating element with a capacity of 3/6 kW	min	195/98	293/146	488/244	732/366	977/488	1172/586	1465/732	1954/976	2931/1465
from a boiler with a capacity of										
18 kW	min	32	49	81	122	163	196	245	326	489
24 kW	min	24	37	61	92	122	146	183	244	366
32 kW	min		27	46	69	92	110	138	184	276
40 kW	min		24	37	55	73	88	110	146	219
Tank performance in the first hour of operation at maximum capacity on lower heat exchanger and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	954	1427	1994	2212	2806	3312	4392	6405	7875
Tank performance in the first hour of operation at maximum capacity on lower and upper heat exchangers and tank heating to 50 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation	l/hour	1558	2181	2748	3117	3711	4670	7258	9272	10742
Lower heat exchanger										
Heat exchanger area	sq.m	1	1,5	2	2	2,4	2,8	3,8	5,8	5,8
Heat exchanger capacity	kW	24	36	48	48	57,6	67,2	91,2	139,2	139,2
Heat exchanger friction loss										
At a flow rate of 0.5 m3/h	bar	0,003	0,005	0,006	0,006	0,008	0,009	0,012	0,018	0,018
At a flow rate of 2.2 m3/h	bar	0,047	0,070	0,093	0,093	0,112	0,131	0,177	0,270	0,270
At a flow rate of 3.8 m3/h	bar	0,140	0,210	0,279	0,279	0,335	0,392	0,531	0,811	0,811
At a flow rate of 5.4 m3/h	bar	0,256	0,384	0,5111	0,511	0,614	0,717	0,973	1,485	1,485
Heat exchanger volume	liters	5,3	7,9	0,6	10,6	12,7	14,820	20,113	30,699	30,699
Upper heat exchanger										
Heat exchanger area	sq.m	0,8	1	1	1,2	1,2	1,8	3,8	3,8	3,8
Heat exchanger capacity	kW	19,2	24	24	28,8	28,8	43,2	91,2	91,2	91,2
Heat exchanger friction loss										
At a flow rate of 0.5 m3/h	bar	0,002	0,003	0,003	0,004	0,004	0,006	0,012	0,012	0,012
At a flow rate of 2.2 m3/h	bar	0,035	0,047	0,047	0,059	0,059	0,085	0,179	0,179	0,179
At a flow rate of 3.8 m3/h	bar	0,100	0,140	0,140	0,210	0,210	0,252	0,532	0,532	0,532
Heat exchanger volume	liters	4,2	5,3	5,3	6,4	6,4	9,540	20,140	20,140	20,140
Pressure and Temperatures										
Maximum heat exchanger temperature	C	95	95	95	95	95	95	95	95	95
Maximum tank temperature	C	80	80	80	80	80	80	80	80	80
Maximum heat exchanger pressure	bar	6	6	6	6	6	6	6	6	6
Maximum tank pressure	bar	6	6	6	6	6	6	6	6	6
Tank corrosion protection										
Magnesium anode size	mm	450*22	900*22	900*22	900*22	1350*22	1350*22	1800*22	1800*22	1800*22
Active titanium anode control unit		Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x	Hn-x
Active titanium anode length	mm	100/400	300/400	300/400	1*(100/400) пор. 1*(200/400) вер.	1*(100/400) пор. 1*(200/400) вер.	1*(100/400) пор. 1*(200/400) вер.	1*(100/400) пор. 1*(200/400) вер.	1*(100/600) пор. 1*(100/800) вер.	1*(100/800) пор. 1*(100/800) вер.

SS-HP (AISI 304 stainless steel)

Indirect heating tank of stainless steel for hot water supply for thermal pumps and high-capacity boilers
Scope of use: Hot water supply heating and storage
Tank volume: 300 up to 2000 litres

Advantages:
- Best-in-class thermal insulation of polyester fiber (fire-resistance class B-s2d0 for SS-HP Series) (polyurethane foam insulation of HP ENAMEL series for tanks of 300 and 500 l)
- Removable thermal insulation.
- The largest magnesium anode in its class made in Germany.
- Possibility of heating element installation (1 ½" up to and including 500 litres, 2" from 750 litres and above).
- Hot water supply recirculation
- Possibility of titanium anode installation (permanent, non-replaceable and non-serviceable anode, which will protect the water heater from harmful effects of chlorides and sulfates).
- Optional possibility of tank design modification according to a customer drawing.
- Premium German enamel coating with increased resistance to soft water (for tanks of HP ENAMEL series)

Tank Specifications	Un. of meas.	SS-HP 300	SS-HP 500	SS-HP 750	SS-HP 1000	SS-HP 1200	SS-HP 1500	SS-HP 2000
Tank volume with heat exchanger	l	295	485	703	995	1200	1525	2030
Tank height	mm	1600	1605/1680	1630	2205	2080	2320	2100
Tank diameter without insulation	mm	500	655	790	790	950	950	1220
Tank diameter with insulation:								
Removable polyester insulation	mm	630/575	780/725	920	920	1070	1070	1350
Weight with corrugated steel heat exchanger	kg	76	98	114	142	185	211	257
Package dimensions: D*W*H	mm	700*800*1800	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2100	1130*1050*2500	1400*1500*2200
Diameter of upper hot water supply pipe connection (external thread)	"	1	1	1	1	1	1	1
Diameter of heating element installation pipe (internal thread)	"	1 1/2	1 1/2	2	2	2	2	2
Capacity and performance								
Recommended maximum capacity of the electric heating element	kW	3--6	6--9	6--15	6--15	6--15	6--15	6--15
Tank heating time from 8 up to 50 degrees from a heating element with a capacity of 3/6 kW	min	293/146	488/244	732/366	977/488	1172/586	1465/732	1954/976
Tank performance in the first hour of operation at maximum capacity on heat exchanger and tank heating to 80 degrees, with 45 degrees tank outflow**	l/hour	2080	3106	4049	5066	6275	7660	8165
- provided that recirculation is in operation								
For gas, wood and electric boilers								
Heat exchanger								
Heat exchanger area	sq.m	3,2	4,7	6	7,3	9,1	11	11
Heat exchanger capacity (for gas, wood and electric boilers)	kW	76,8	112,8	144	175,2	218,4	264	264
Heat exchanger friction loss								
At a flow rate of 2.2 m3/h	bar	0,149	0,219	0,280	0,340	0,424	0,513	0,513
At a flow rate of 3.8 m3/h	bar	0,447	0,657	0,839	1,021	1,272	1,538	1,538
At a flow rate of 5.4 m3/h	bar	0,819	1,203	1,536	1,869	2,329	2,816	2,816
At a flow rate of 7.1 m3/h	bar	1,165	1,712	2,185	2,659	3,314	4,006	4,006
At a flow rate of 8.7 m3/h	bar	1,934	2,840	3,626	4,412	5,500	6,648	6,648
Pressure and Temperatures								
Heat exchanger volume	liters	17,0	24,9	31,8	38,7	48,2	58,3	58,3
Maximum heat exchanger temperature	C	95	95	95	95	95	95	95
Maximum tank temperature	bar	80	80	80	80	80	80	80
Maximum heat exchanger pressure	bar	6	6	6	6	6	6	6
Maximum tank pressure		6	6	6	6	6	6	6
Tank corrosion protection								
Magnesium anode size	mm	900*22/950*26	900*22/850*33	900*22/1250*33	1350*22/1250*33	1350*22/1250*33	1800*22/1250*33	1800*22/1250*33
Maximum heat pump capacity for tank operation (1 kW = 0.25m2)		12,8	18,8	24	29,2	36,4	44	44
Hot water supply performance from the heat pump in the first hour of discharge	l/hour	592	922	1261	1674	2046	2548	3053

Series **AT/AT PRESTIGE/ET**

Heat accumulator/Buffer - the tank material is carbon steel
Scope of use: accumulation and storage of heat transfer fluid/process water.
Tank volume: 300 up to 5000 litres.

Advantages:
- Best-in-class thermal insulation of polyester fiber (fire-resistance class B-s2d0)
- Removable thermal insulation.
- Possibility of heating elements installation (1 ½" internal thread with a total capacity up to 45 kW)
- Tank drain pipe.
- The tank is made from pure cold-rolled steel, so your heating system will remain free of traces of dirt and tarnish on the heat exchangers for a long time.
- Possibility of building multivalent heating systems based on this tank.
- Optional possibility of tank design modification according to a customer drawing and selection of ErP class A, B, C insulation type.
- Maximum pressure up to 6 bar (optionally up to 10 bar).
- Reinforced wood packaging with the possibility of vertical, horizontal (up to 1000 litres) transportation.
- Stylish exterior design of the ABS plastic external tank cover with decorative caps.

Number of connection pipes and their location

AT	AT Prestige	ET Series
9 pcs. x 1 1/2" (1 pcs. at the top, 8 pcs. on the side) - 4 pcs. x 1/2" 1 1/2" side connections at 90° (4 pcs. x 4 pcs. + 1 pcs. at the top)	7 pcs. x 1 1/2" (1 pcs. at the top, 6 pcs. on the side) 3 pcs. x 1/2" Lateral pipes interconnections are routed to one side	4 pcs. x 1 1/2" (1 pcs. at the top, 3 pcs. on the side) 3 pcs. x 1/2"

Tank Specifications	Un. of meas.	AT/AT PR/ET 300	AT/AT PR/ET 500	AT/AT PR/ET 750	AT/AT PR/ET 1000	AT/AT PR/ET 1200	AT/AT PR/ET 1500	AT/AT PR/ET 2000	AT/AT PR/ET 3000	AT/AT PR/ET 5000
Tank volume	l	295	485	703	995	1200	1525	2030	3540	4910
Tank height	mm	1600	1605	1630	2205	2080	2370	2100	2315	3170
Tank diameter without insulation	mm	500	650	790	790	950	950	1220	1500	1500
Tank diameter with insulation:	mm									
Removable polyester insulation		630	780	920	920	1070	1070	1350	1630	1630
Weight	kg	65	87	103	131	174	200	246	450	615
Package dimensions: D*W*H	mm	700*800*1800	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2100	1130*1050*2500	1400*1500*2200	1800*1900*2450	1850*3200*2000
Diameter of heating element installation port (internal thread)	"	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Recommended maximum capacity of the electric heating element	kW	3--30	3--45	3--45	3--45	3--45	3--45	3--45	3--45	3--45
Maximum tank temperature	C	95	95	95	95	95	95	95	95	95
Maximum tank pressure	bar	3--6	3--6	3--6	3--6	3--6	3--6	3--6	3--6	3--6

Series **FRESH 200**

Heat accumulator with DHW coil

This tank is a full-fledged boiler that heats both the house and the water.

Scope of use: accumulation and storage of heat transfer fluid/process water.

The tank material is carbon steel

The heat exchanger material is AISI 304 stainless steel

Tank volume: 245 litres.

Advantages:

- Best-in-class thermal insulation of polyester fiber (fire-resistance class B-s2d0)
- Removable thermal insulation.
- Possibility of heating elements installation (1 ½" internal thread, total capacity ranging from 3 to 18 kW)
- Tank drain pipe.
- The tank is made from pure cold-rolled steel, so your heating system will remain free of traces of dirt and tarnish on the heat exchangers for a long time.
- Possibility of building multivalent heating systems based on this tank.
- Optional possibility of tank design modification according to a customer drawing and selection of ErP class A, B, C insulation type.
- Maximum tank pressure up to 3 bar (optionally up to 10 bar), maximum hot water supply heat exchanger pressure of 6 bar.
- Reinforced wood packaging with the possibility of vertical, horizontal transportation.
- Stylish exterior design of the ABS plastic external tank cover with decorative caps.
- Performance up to 2000 l/h of hot water supply (with appropriate applied capacity)
- Heat exchanger capacity by flow: 105 kW

Tank Specifications	Un. of meas.	
Tank volume	l	245
Tank height	mm	960
Tank diameter without insulation	mm	650
Tank diameter with insulation	mm	780
Heat exchanger area	kW	105
Tank diameter with insulation	l/hour	2000
Maximum tank pressure	bar	3
Maximum heat exchanger pressure	bar	6
Connection diameter	“	1
Heat exchanger connection diameter	“	1
Maximum temperature	C	95
Possibility of heating element installation	Pcs.	2 (available)
DHW heat exchanger friction loss at 2.2m3/h	bar	0,0885

Sesrie **HFWT**

Heat accumulator with DHW coil
3 in 1 (heat accumulator, hydraulic separator, fresh hot water tank)
Scope of use: accumulation and storage of heat transfer fluid/process water.
The tank material is carbon steel
The heat exchanger material is AISI 304 stainless steel
Tank volume: 300 up to 3000 litres.

Advantages:
- Best-in-class thermal insulation of polyester fiber (fire-resistance class B-s2d0)
- Removable thermal insulation.
- Possibility of heating element installation (2" internal thread with a capacity up to 15 kW)
- Tank drain pipe.
- The tank is made from pure cold-rolled steel, so your heating system will remain free of traces of dirt and tarnish on the heat exchangers for a long time.
- Possibility of building multivalent heating systems based on this tank.
- Optional possibility of tank design modification according to a customer drawing and selection of ErP class A, B, C insulation type.
- Maximum tank pressure up to 6 bar (optionally up to 10 bar), maximum hot water supply heat exchanger pressure of 6 bar.
- Reinforced wood packaging with the possibility of vertical, (up to 1000 litres) transportation.
- Stylish exterior design of the ABS plastic external tank cover with decorative caps.
- Performance up to 2000 l/h of hot water supply (with appropriate applied capacity)
- Heat exchanger capacity by flow: 105 kW

Tank Specifications	Un. of meas.	HFWT 300	HFWT 500	HFWT 750	HFWT 1000	HFWT 1200	HFWT1500	HFWT 2000	HFWT 3000
Tank volume with heat exchanger	l	295	480	703	995	1200	1525	2030	3540
Tank height	mm	1600	1680	1630	2205	2080	2370	2100	2315
Tank diameter without insulation	mm	500	650	790	790	950	950	1220	1500
Tank diameter with insulation:									
Removable polyester insulation	mm	630	780	920	920	1070	1070	1350	1630
Weight with heat exchanger	kg	76	98	114	142	185	211	257	465
Package dimensions: D*W*H	mm	700*800*1800	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2100	1130*1050*2500	1400*1500*2200	1800*1900*2400
Heat exchanger pipe connection diameter (external thread)	"	1	1	1	1	1	1	1	1
Diameter of heating element installation pipe (internal thread)	"	2	2	2	2	2	2	2	2
Capacity and performance									
Recommended maximum capacity of the electric heating element	kW	3--6	6--9	6--15	6--15	6--15	6--15	6--15	6--15
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	293/146	488/244	732/366	977/488	1172/586	1465/732	1954/976	2931/1465
from a boiler with a capacity of									
18 kW	min	49	81	122	163	196	245	326	489
24 kW	min	37	61	92	122	146	183	244	366
32 kW	min	27	46	69	92	110	138	184	276
40 kW	min	24	37	55	73	88	110	146	219
Maximum tank performance for hot water supply in the first hour of operation with capacity applied to the tank and heating to 80 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation									
18 kW	l/hour	713	898	1121	1413	1618	1943	2448	3958
24 kW	l/hour	853	1038	1261	1553	1758	2083	2588	4098
32 kW	l/hour	1039	1224	1447	1739	1944	2269	2774	4284
40 kW	l/hour	1225	1410	1633	1925	2130	2455	2960	4470
60 kW	l/hour	1690	1875	2098	2390	2595	2920	3425	4935
Heat exchanger									
Heat exchanger area	sq.m	3,2	3,8	3,8	3,8	3,8	3,8	3,8	3,8
Heat exchanger friction loss									
Pressure and Temperatures	bar	0,005	0,006	0,006	0,008	0,008	0,008	0,008	0,008
Heat exchanger volume	bar	0,070	0,093	0,093	0,112	0,112	0,112	0,112	0,112
Maximum heat exchanger temperature	bar	0,210	0,279	0,279	0,335	0,335	0,335	0,335	0,335
Maximum tank temperature	bar	0,384	0,511	0,511	0,614	0,614	0,614	0,614	0,614
Maximum heat exchanger pressure									
Maximum tank pressure	liters	17,0	20,1	20,1	20,1	20,1	20,1	20,1	20,1
At a flow rate of 0.5 m3/h	C	95	95	95	95	95	95	95	95
At a flow rate of 2.2 m3/h	C	95	95	95	95	95	95	95	95
At a flow rate of 3.8 m3/h	bar	6	6	6	6	6	6	6	6
At a flow rate of 5.4 m3/h	bar	3--6	3--6	3--6	3--6	3--6	3--6	3--6	3--6

Series **HFWT DUO**

Heat accumulator with DHW coil

3 in 1 + solar collector connection option (heat accumulator, hydraulic separator, hot water supply flow through coil)

Scope of use: accumulation and storage of heat transfer fluid/process water.

The tank material is carbon steel

Heat exchanger material: AISI 304 stainless steel

Tank volume: 300 up to 3000 litres.

Advantages:

- Best-in-class thermal insulation of polyester fiber (fire-resistance class B-s2d0)
- Removable thermal insulation.
- Possibility of heating element installation (2" internal thread with a capacity up to 15 kW)
- Tank drain pipe.
- The tank is made from pure cold-rolled steel, so your heating system will remain free of traces of dirt and tarnish on the heat exchangers for a long time.
- Possibility of building multivalent heating systems based on this tank.
- Optional possibility of tank design modification according to a customer drawing and selection of ErP class A, B, C insulation type.
- Maximum tank pressure up to 6 bar (optionally up to 10 bar), maximum hot water supply heat exchanger pressure of 6 bar.
- Reinforced wood packaging with the possibility of vertical, horizontal (up to 1000 litres) transportation and two layers of protective film.
- Stylish exterior design of the ABS plastic external tank cover with decorative caps.
- Performance up to 2000 l/h of hot water supply (with appropriate applied capacity)
- Heat exchanger capacity by flow: 105 kW

Tank Specifications	Un. of meas.	HFWT DUO 300	HFWT DUO 500	HFWT DUO 750	HFWT DUO 1000	HFWT DUO 1200	HFWT DUO 1500	HFWT DUO 2000	HFWT DUO 3000
Tank volume with heat exchanger	l	295	480	703	995	1200	1525	2030	3540
Tank height	mm	1600	1680	1630	2205	2080	2370	2100	2315
Tank diameter without insulation	mm	500	650	790	790	950	950	1220	1500
Tank diameter with insulation:									
Removable polyester insulation	mm	630	780	920	920	1070	1070	1350	1630
Weight with corrugated steel heat exchanger	kg	78	102	119	147	192	220	265	480
Package dimensions: D*W*H	mm	700*800*1800	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2100	1130*1050*2500	1400*1500*2200	1800*1900*2400
Heat exchanger pipe connection diameter (external thread)	"	1	1	1	1	1	1	1	1
Diameter of heating element installation pipe (internal thread)	"	2	2	2	2	2	2	2	2
Capacity and performance									
Recommended maximum capacity of the electric heating element	kW	3--6	6--9	6--15	6--15	6--15	6--15	6--15	6--15
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	293/146	488/244	732/366	977/488	1172/586	1465/732	1954/976	2931/1465
from a boiler with a capacity of									
18 kW	min	49	81	122	163	196	245	326	489
24 kW	min	37	61	92	122	146	183	244	366
32 kW	min	27	46	69	92	110	138	184	276
40 kW	min	24	37	55	73	88	110	146	219
Upper heat exchanger									
Heat exchanger area	sq.m	3,2	3,8	3,8	3,8	3,8	3,8	3,8	3,8
Heat exchanger friction loss									
At a flow rate of 0.5 m3/h	bar	0,003	0,004	0,004	0,004	0,004	0,004	0,004	0,004
At a flow rate of 2.2 m3/h	bar	0,047	0,059	0,059	0,059	0,059	0,059	0,059	0,059
At a flow rate of 3.8 m3/h	bar	0,140	0,210	0,210	0,210	0,210	0,210	0,210	0,210
Maximum tank performance for hot water supply in the first hour of operation with capacity applied to the tank and heating to 80 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation									
18 kW	l/hour	713	898	1121	1413	1618	1943	2448	3958
24 kW	l/hour	853	1038	1261	1553	1758	2083	2588	4098
32 kW	l/hour	1039	1224	1447	1739	1944	2269	2774	4284
40 kW	l/hour	1225	1410	1633	1925	2130	2455	2960	4470
60 kW	l/hour	1690	1875	2098	2390	2595	2920	3425	4935
Upper heat exchanger volume	Liter	17,0	20,1	20,1	20,1	20,1	20,1	20,1	20,1
Lower heat exchanger									
Heat exchanger area	sq.m	0,57	1,2	2	2	3	3,8	3,8	3,8
Heat exchanger capacity	kW	14	29	48	48	72	91	91	91
Heat exchanger friction loss									
At a flow rate of 0.5 m3/h	bar	0,002	0,004	0,006	0,006	0,009	0,012	0,012	0,012
At a flow rate of 2.2 m3/h	bar	0,027	0,056	0,093	0,093	0,140	0,177	0,177	0,177
At a flow rate of 3.8 m3/h	bar	0,080	0,168	0,279	0,279	0,419	0,531	0,531	0,531
At a flow rate of 5.4 m3/h	bar	0,146	0,307	0,511	0,511	0,767	0,971	0,971	0,971
Heating performance	l/hour	318	669	1115	1115	1673	2119	2119	2119
Lower heat exchanger volume	liters	3,0	6,4	10,6	10,6	15,9	20,1	20,1	20,1
Pressures and Temperatures									
Maximum heat exchanger temperature	C	95	95	95	95	95	95	95	95
Maximum tank temperature	C	95	95	95	95	95	95	95	95
Maximum heat exchanger pressure	bar	6	6	6	6	6	6	6	6
Maximum tank pressure	bar	3--6	3--6	3--6	3--6	3--6	3--6	3--6	3--6

AT ELECTRO/AT ELECTRO (Enamelled)/SS ELECTRO

AT ELECTRO - (Kohlenstahl) - ein Tank zur Nutzwassererwärmung von geschlossenen Systemen.
Anwendungsbereich - Einspeicherung und Akkumulation von Wärmeträger/Nutzwasser.
Tankvolumen von 300 bis 5000 Liter.
AT ELECTRO(Email) - Tank der elektrischen Erwärmung von Warmwasserversorgung
Anwendungsbereich - Einspeicherung und Akkumulation von Warmwasserversorgung.
Tankvolumen von 300 bis 2000 Liter.
SS ELECTRO (Rostfreistahl AISI 304) Tank der elektrischen Erwärmung von Warmwasserversorgung
Anwendungsbereich - Einspeicherung und Akkumulation von Warmwasserversorgung.
Tankvolumen von 300 bis 5000 Liter.

Vorteile:
- Die beste in ihrer Klasse Wärmedämmung aus Polyesterfaserstoff (Feuerwiderstandsklasse B-s2d0)
- Abnehmbare Wärmedämmung.
- Möglichkeit der Installation von Heizkörpern (2" Innengewinde, Gesamtleistung eines Heizkörpers bis 15 kW)
- Stutzen des Tankablaufs
- Der Tank besteht aus reinen kaltgewalzten Stahlsorten, damit Ihr Heizungs- oder Warmwasserversorgungssystem lange Zeit ohne Schmutzspuren und Ablagerungen auf den Wärmeaustauschern bleibt.
- Optional ist die Änderung der Tankkonstruktion nach Kundenzeichnung und die Auswahl der Isolierart A, B, C Klasse nach EGR (exhaust gas recirculation) möglich.
- Maximaldruck bis 6 Bar (optional bis 10 Bar).
- Verstärkte Holzverpackung mit der Möglichkeit des vertikalen/horizontalen (bis 1000 Liter) Transports mit 2 Schichten von Schutzfolie.
- Stilvolle Außenansicht der Tankaußenisolierung aus ABS-Kunststoff mit Zierkappen.
- Leistungsfähigkeit bis zu 9000 l/Std. der Warmwasserversorgung (bei entsprechender angelegter Leistung)

Tank Specifications	Un. of meas.	AT/AT ENAM/ SS EL 300	AT/AT ENAM/ SS EL500	AT/AT ENAM/ SS EL750	AT/AT ENAM/ SS EL1000	AT/AT ENAM/ SS EL1200	AT/AT ENAM/ SS EL1500	AT/AT ENAM/ SS EL2000	AT/SS EL3000	AT/SS EL5000
Tank volume with heat exchanger	l	295	480	703	995	1200	1525	2030	3540/3500	4910/4900
Tank height	mm	1600	1680	1630	2205	2080	2370	2100	2315/2210	3170/3010
Tank diameter without insulation	mm	500	650	790	790	950	950	1220	1500/1600	1500/1600
Tank diameter with insulation:										
Removable polyester insulation	mm	630	780	920	920	1070	1070	1350	1630/1730	1630/1730
Weight	kg	65	87	103	131	174	200	246	4501	6151
Package dimensions: D*W*H	mm	600*600*1325	750*750*1800	900*900*1800	900*900*2350	1050*1050*2100	1050*1050*2500	1450*1450*2300	1800*1800*2450	1850*3200*2000
Diameter of heating element installation pipe (internal thread)	"	2	2	2	2	2	2	2	2	2
Capacity and performance										
Recommended maximum capacity of the electric heating element	kW	3--36	6–54	6--54	6--90	6--90	6–90	6--108	6–108	6–135
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	293/146	488/244	732/366	977/488	1172/586	1465/732	1954/976	2931/1465	4885/2440
maximum tank temperature	C	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80
maximum tank pressure	bar	3–6--6	3--6–6	3–6--6	3–6--6	3–6--6	3--6--6	3--6–6	3–6--6	3--6–6

AT ELECTRO MONO/AT ELECTRO MONO (Enamelled)/SS ELECTRO MONO

AT ELECTRO MONO - **(Kohlenstahl)** - Tank zur Nutzwassererwärmung von geschlossenen Systemen.
Anwendungsbereich - Einspeicherung und Akkumulation von Wärmeträger/Nutzwasser.
Tankvolumen von 300 bis 5000 Liter.
AT ELECTRO MONO (Email) - Tank der elektrischen Erwärmung von Warmwasserversorgung
Anwendungsbereich - Einspeicherung und Akkumulation von Warmwasserversorgung.
Tankvolumen von 300 bis 2000 Liter.
SS ELECTRO MONO (Rostfreistahl AISI 304) - Tank der elektrischen Erwärmung von Warmwasserversorgung
Anwendungsbereich - Einspeicherung und Akkumulation von Warmwasserversorgung.
Tankvolumen von 300 bis 5000 Liter.

Vorteile:
- Die beste in ihrer Klasse Wärmedämmung aus Polyesterfaserstoff (Feuerwiderstandsklasse B-s2d0)
- Abnehmbare Wärmedämmung.
- Möglichkeit der Installation von Heizkörpern (2" Innengewinde, Gesamtleistung eines Heizkörpers - bis 15 kW)
- Stutzen des Tankablaufs
- Der Tank besteht aus reinen kaltgewalzten Stahlsorten, damit Ihr Heizungs- oder Warmwasserversorgungssystem lange Zeit ohne Schmutzspuren und Ablagerungen auf den Wärmeaustauschern bleibt.
- Optional ist die Änderung der Tankkonstruktion nach Kundenzeichnung und die Auswahl der Isolierart A, B, C Klasse nach EGR (exhaust gas recirculation) möglich.
- Maximaldruck bis 6 Bar (optional bis 10 Bar).
- Verstärkte Holzverpackung mit der Möglichkeit des vertikalen/horizontalen (bis 1000 Liter) Transports mit 2 Schichten von Schutzfolie.
- Stilvolle Außenansicht der Tankaußenisolierung aus ABS-Kunststoff mit Zierkappen.
- Leistungsfähigkeit bis zu 9000 l/Std. der Warmwasserversorgung (bei entsprechender angelegter Leistung)
- Leistungsfähigkeit des Wärmeaustauschers - bis 91 kW (optional bis 300 kW) Material des Wärmeaustauschers - Rostfreistahl AISI 304

Tank Specifications	Un. of meas.	AT/AT ENAM/SS EL MONO300	AT/AT ENAM/SS ELMONO500	AT/AT ENAM/SS ELMONO750	AT/AT ENAM/SS ELMONO1000	AT/AT ENAM/SS ELMONO1200	AT/AT ENAM/SS ELMONO1500	AT/AT ENAM/SS ELMONO2000	AT/AT ENAM/SS ELMONO3000	AT/AT ENAM/SS ELMONO5000
Tank volume with heat exchanger	l	295	480	703	995	1200	1525	2030	3540/3500	4910/4900
Tank height	mm	1600	1680	1630	2205	2080	2370	2100	2315/2210	3170/3010
Tank diameter without insulation	mm	500	650	790	790	950	950	1220	1500/1600	1500/1600
Tank diameter with insulation:										
Removable polyester insulation	mm	630	780	920	920	1070	1070	1350	1630/1730	1630/1730
Weight with heat exchanger	kg	76	98	114	142	185	211	257	465	630
Package dimensions: D*W*H	mm	600*600*1800	750*750*1800	900*900*1800	900*900*2350	1050*1050*2100	1050*1050*2500	1450*1450*2300	1800*1800*2450	1850*3200*2000
Heat exchanger pipe connection diameter (external thread)	"	1	1	1	1	1	1	1	1	1
Diameter of heating element installation pipe (internal thread)	"	2	2	2	2	2	2	2	2	2
Capacity and performance										
Recommended maximum capacity of the electric heating element	kW	3–36	6--54	6--54	6–90	6--90	6--90	6--108	6--108	6--135
Tank heating time from 8 to 50 degrees by a heating element with a capacity of 3/6 kW	min	293/146	488/244	732/366	977/488	1172/586	1465/732	1954/976	2931/1465	4885/2440
from a boiler with a capacity of										
18 kW	min	49	81	122	163	196	245	326	489	815
24 kW	min	37	61	92	122	146	183	244	366	610
32 kW	min	27	46	69	92	110	138	184	276	460
40 kW	min	24	37	55	73	88	110	146	219	365
Maximum tank performance for hot water supply in the first hour of operation with capacity applied to the tank and heating to 80 degrees, with 45 degrees tank outflow** - provided that recirculation is in operation		1117	1596	1816	2036	2316	2641	3146	5620	7030
Lower heat exchanger										
Heat exchanger area	sq.m	1,5	2	2	2	2	2	2	3,8	3,8
Heat exchanger capacity	kW	36	48	48	57,6	48	48	48	91,2	91,2
Heat exchanger friction loss										
At a flow rate of 0.5 m3/h	bar	0,005	0,006	0,006	0,008	0,008	0,008	0,008	0,014	0,014
At a flow rate of 2.2 m3/h	bar	0,070	0,093	0,093	0,112	0,112	0,112	0,112	0,212	0,212
At a flow rate of 3.8 m3/h	bar	0,210	0,279	0,279	0,335	0,335	0,335	0,335	0,637	0,637
At a flow rate of 5.4 m3/h	bar	0,384	0,511	0,511	0,614	0,614	0,614	0,614	1,166	1,166
Pressures and Temperatures										
Heat exchanger volume	liters	8,0	10,6	10,6	10,6	10,6	10,6	10,6	20,1	20,1
Maximum heat exchanger temperature	C	95	95	95	95	95	95	95	95	95
Maximum tank temperature	C	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80	95/80/80
Maximum heat exchanger pressure	bar	3--6--6	3--6--6	3--6--6	3--6--6	3--6--6	3--6--6	3--6--6	3--6--6	3--6--6
Maximum tank pressure	bar	6	6	6	6	6	6	6	6	6

Series TC (Carbon steel)

SS TC (AISI 304 stainless steel)

Cold/heat accumulator/buffer - the tank material is carbon steel/stainless steel
Scope of use: accumulation and storage of heat transfer fluid/process water/hot water supply
Tank volume: 300 up to 5000 litres.

Advantages:
- Best-in-class thermal insulation of foam rubber
- Possibility of connection diameters modification (of flanges and threads) at the customer's request
- Tank drain pipe.
- The tank is made from pure cold-rolled steel, so your heating or hot water supply system will remain free of traces of dirt and tarnish on the heat exchangers for a long time.
- Possibility of building multivalent heating/cooling systems based on this tank.
- Optional possibility of tank design modification according to a customer drawing and selection of ErP class A, B, C insulation type.
- Maximum pressure up to 6 bar (optionally up to 10 bar).
- The tank rim support allows the tank weight to be evenly distributed on the floor surface.

Tank Specifications	Un. of meas.	TC/SS TC 300	TC/SS TC 500	TC/SS TC 750	TC/SS TC 1000	TC/SS TC 1200	TC/SS TC 1500	TC/SS TC 2000	TC/SS TC 3000	TC/SS TC 5000
Tank volume	l	295	480	703	995	1200	1525	2030	3540/3500	4910/4900
Tank height	mm	1565	1565	1590	2165	1980	2330	2070	2315/2210	3170/3010
Tank diameter without insulation	mm	500	650	790	790	950	950	1220	1500/1600	1500/1600
Tank diameter with insulation:										
Foam rubber insulation	mm	540	690	830	830	990	990	1260	1540/1640	1540/1640
Weight	kg	65	87	103	131	174	200	246	450	615
Package dimensions: D*W*H	mm	700*800*1800	800*900*1800	930*1030*1800	930*1030*2350	1130*1050*2100	1130*1050*2500	1400*1500*2200	1800*1900*2450	1850*3200*2000
Diameter of flange connections		ДУ50	ДУ50	ДУ100	ДУ100	ДУ100	ДУ100	ДУ100	ДУ100	ДУ100
Diameter of thread connections	"	1/2 internal	1/2 internal	1/2 internal	1/2 internal	1/2 internal	1/2 internal	1/2 internal	1/2 internal	1/2 internal
Minimum operating temperature [*]	C	(-40) -10	(-40) -10	(-40) -10	(-40) -10	(-40) -10	(-40) -10	(-40) -10	(-40) -10	(-40) -10
Maximum tank temperature	C	95	95	95	95	95	95	95	95	95
Maximum tank pressure	bar	3--6	3--6	3--6	3--6	3--6	3--6	3--6	3--6	3--6
(*)-optional										

Electric heating elements

Heating element 2kW/3kW

The material of the heating element tube is stainless steel, so there is no better material for a heating element!! This heating element can be used with an enamelled tank, a stainless steel tank and a simple carbon steel tank!! German thermostats inside!! Quality proven over the years!! Emergency thermostat for additional boil protection already included!! Double overheating protection!! The power plug is already connected to the housing and installation and wiring are perfectly simple! Just screw it into the tank and plug it in! Set the desired temperature on the regulator and use it!
Maximum heating temperature of 75 C
- Scope of use: water heating.
- Suitable for tanks from 50 up to 5000 liters
- Connection size -1 1/4" or 1 1/2"
- Body material: Stainless steel/plastic thermostat housing
- Capacity: 3 kW
- Water heating rate: 54 / 81 l/h
- One year warranty

Heating element of 6 kW / 9 kW / 15 kW

- Scope of use: water heating.
- Suitable for tanks from 150-5000 / 400-5000 / 750-5000 litres
- Body material: Stainless steel Incoloy 875/ plastic thermostat housing
- Double boil protection (2 thermostats: 1 main + 1 emergency thermostat)
- 'Antifreeze' feature (prevents water in the tank from freezing)
- Temperature control range: 30 up to 75 C
- Connection size -1 1/2"
- Capacity: 6/9 kW
- Water heating rate: 161/243/405 l/h
- One year warranty

Active titanium anodes
Model S-TANK Gn / Hn / Hn-X

For enamelled carbon steel tanks and stainless steel tanks from 50 up to 5000 l.

PRODUCT FUNCTIONALITY:

- Smart corrosion protection
- Protection of stainless steel tanks against chlorides and sulphates
- Removes the unpleasant smell of rotten eggs from the water heater
- Releases oxygen in the process, thereby disinfecting the water
- Lets you forget about replacing the anode in your water heater forever
- Measures and generates the potential inside the tank in a way that corrosion cannot even occur

Magnesium anodes

A magnesium anode protects the inner surface of the heater tank against corrosion and the heating element against limescale buildup, reducing its density and facilitating tank cleaning. The magnesium anode is installed by manufacturers in both dry and wet heating tanks, which provides corrosion protection not only for the heating element, but also for the internal surface of the tank. As most boilers are made of metal, their interaction with water cannot be avoided. This means that corrosion cannot be avoided because tap water contains dissolved oxygen, which promotes corrosion. As the water in the tank heats up, the oxygen is actively released from the water and reacts with the metal, destroying the tank walls of the water heater.
To prevent corrosion, the magnesium anode must be inspected regularly and replaced if the anode is even partially destroyed. For more information on inspection and replacement of the magnesium anode, refer to the tank's data sheet or the installation and operating instructions.

Magnesium anodes for tank corrosion protection (made in Germany)

Anode	Size	Weight
Magnesium anode for 3/4" bolt	450x22	0.3
Magnesium anode for 3/4" bolt on M8 stud	450x22	0.3
Magnesium anode for bolt (1")	650x26	0.6
Magnesium anode for bolt (1")	960x26	0.9
Magnesium anode for bolt (1 1/4")	850x33	1.3
Magnesium anode for bolt (1 1/4")	1250x33	1.9

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