

2025

01/09



PRODUCT CATALOGUE

Efficient energy management

ABOUT US

The history of Kuidych Heating Technologies (KHT), a Ukrainian company, dates back to 1989, when a small enterprise united a team of engineers and technicians into a company for the production and supply of heating equipment. The main activity was the design, installation and commissioning of heating equipment in the industrial and domestic sectors. Due to the great demand for its products, in 2009 the company invested its own funds in the production of heating buffer tanks and indirect water heaters. We are one of the first companies that from the very beginning of its foundation to the present day has been committed to implementing modern solutions in the field of heating and sanitary systems.

KHT's slogan is efficient energy management. We make decisions quickly and implement innovations dictated by

the market. We manufacture high-quality products for heating, hot water supply and other projects. The highest quality of our products means customer trust, so that Kuidych Heating Technologies is a leading Ukrainian manufacturer of heating equipment.

Nowadays, the company is a powerful industrial enterprise with a team of professional employees. The company's production and warehouse facilities cover more than 19,000 m². A clear management system and maximum use of potential have given us a stable position in the Ukrainian and European markets. Most of our products are imported abroad, where we pay great attention to energy efficiency and quality. We always try to find the right solution through a flexible approach to customer needs and strive to implement effective energy-saving projects in accordance with requests.



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KHT BT PREMIUM WATER HEATERS IN PU SOLID INSULATION

BT series water heaters are designed for efficient storage of hot water for domestic use. They are made of carbon steel, phosphatised and coated with high-quality ceramic enamel suitable for drinking water. The water heaters are equipped with a DN 120 inspection flange opening. The heat exchangers are made of carbon steel. The maximum working pressure is 0.6 MPa, the temperature is 95°C.

BT water heaters are manufactured from 120 to 500 litres in solid PU insulation, from 750 to 2000 litres – in removable insulation

Marking: KHT BT-PREMIUM-XY-V-WP-PU
KHT BT-XY-V-GP-PS

BT - series

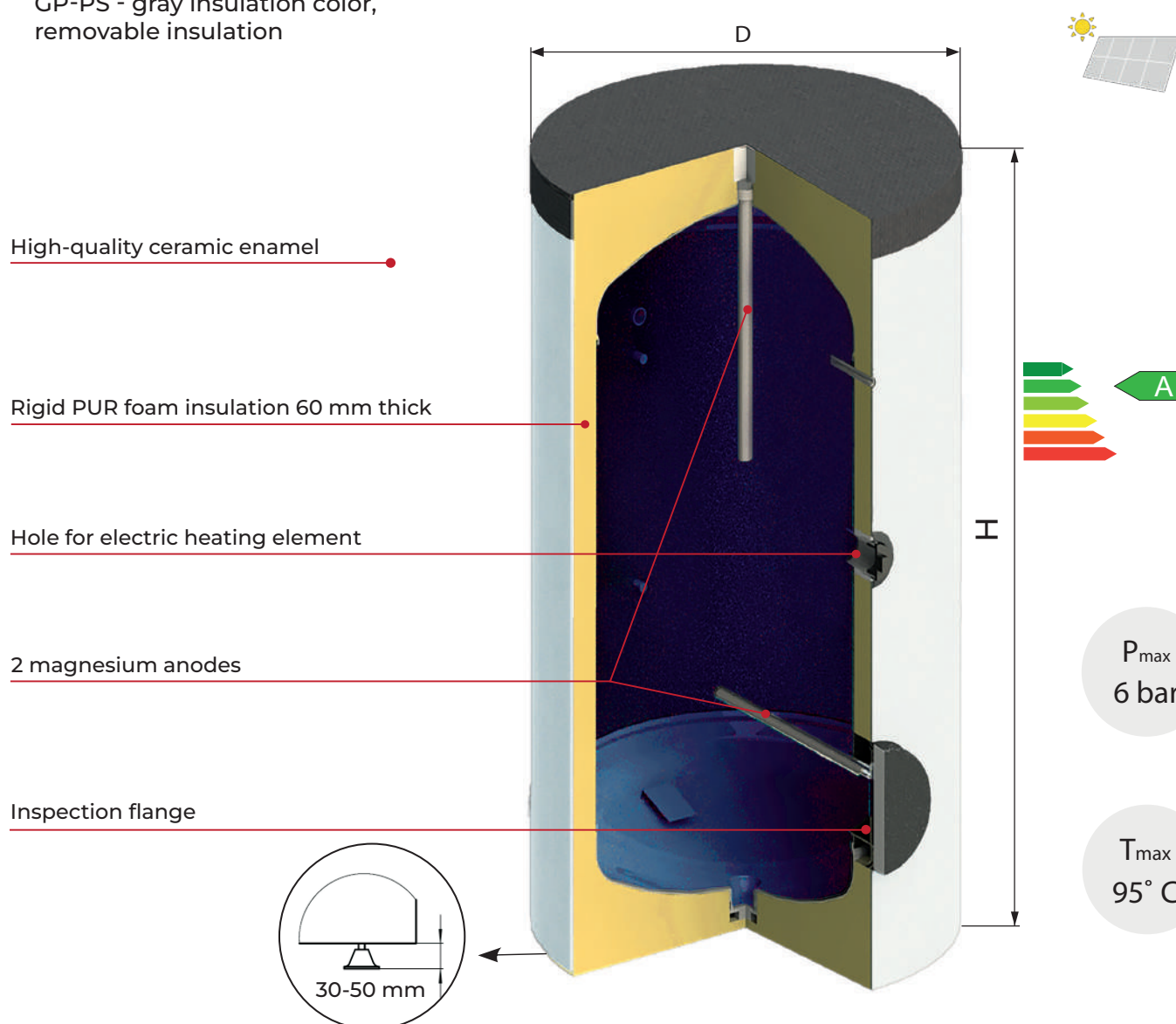
X - number of upper heat exchangers

Y - number of lower heat exchangers

V - standard size

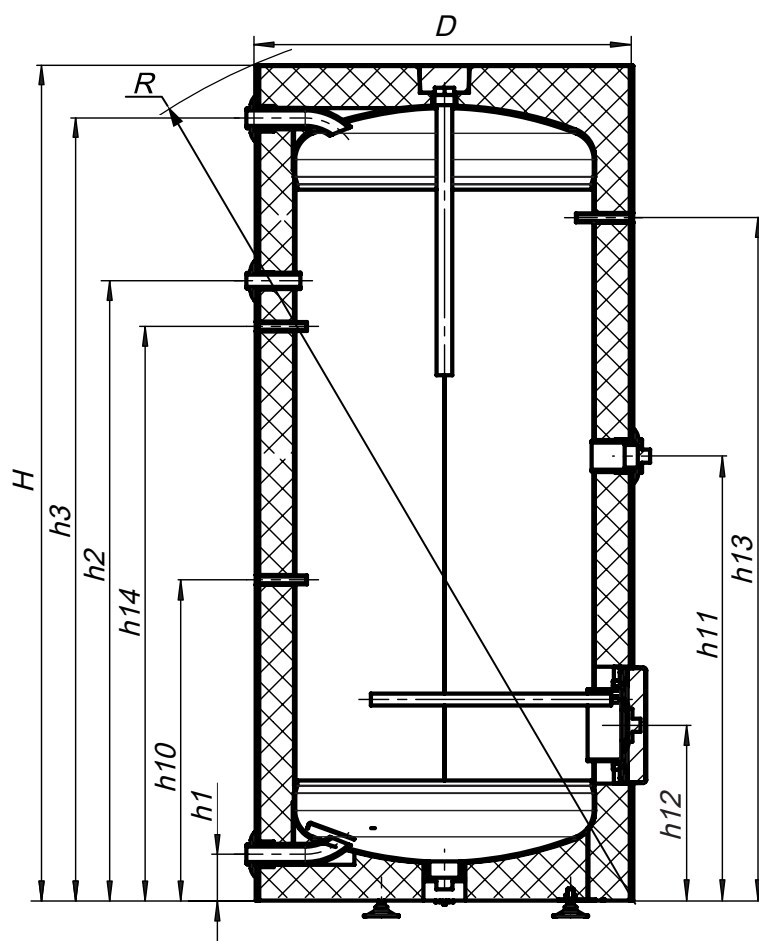
WP-PU - white insulation color, solid polyurethane foam insulation

GP-PS - gray insulation color, removable insulation



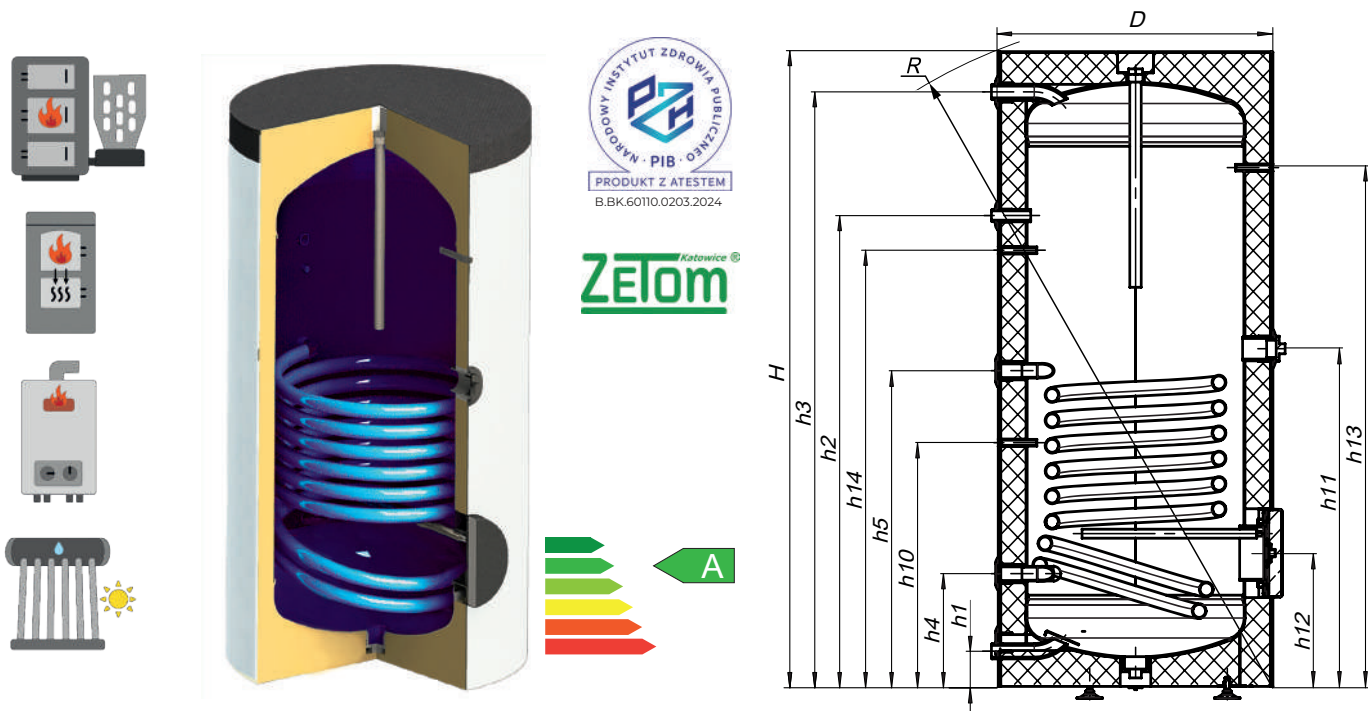
SERIES KHT BT Premium-00-WP-PU

Water heaters without heat exchangers



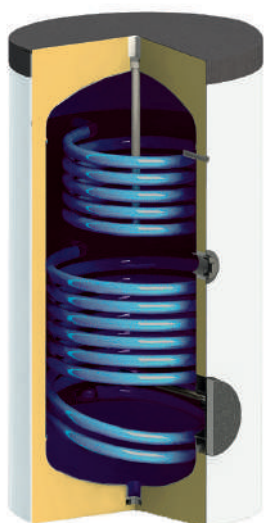
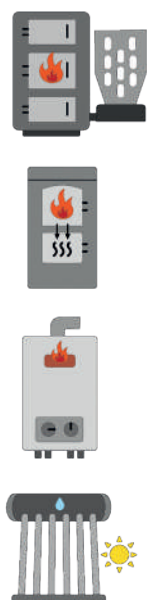
Specification	Units of measurement	Nominal volumes/ Article			
		200	300	400	500
		BTP000200WPPU	BTP000300WPPU	BTP000400WPPU	BTP000500WPPU
Cold water supply pipe h1	" / mm	1/ 77	1/ 83	1/ 83	1/ 92
Recycling pipe h2	" / mm	3/4/ 1032	3/4/ 1035	3/4/ 1268	3/4/ 1277
Hot water withdrawal pipe h3	" / mm	1/ 1303	1/ 1323	1/ 1573	1/ 1582
Sensor sleeve h14	mm	956	980	1168	1177
Sleeve h10	mm	534	608	648	657
Heating element pipe h11	" / mm	6/4/ 740	6/4/ 848	6/4/ 905	6/4/ 914
TU1 inspection flange/ Heating element pipe h12	" / mm	6/4/ 292	6/4/ 303	6/4/ 303	6/4/ 312
Thermometer sleeve h13	mm	1137	1148	1398	1407
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1391	1416	1666	1683
Diameter without insulation d/ Diameter with insulation D	mm	500/ 632	603/ 735	603/ 735	652/ 784
Volume V	l	229	338	406	480
Magnesium anode weight	kg	0,9	0,9	1,3	1,3
Length of magnesium anodes (main / additional)	mm	400/400	400/400	650/400	650/400
Internal surface area of the boiler	m ²	2,25	2,69	3,22	3,55
Mass	kg	59	72	83	90
Tilting radius R	mm	1526	1595	1821	1856
Inspection hole	Dn	120			
Heating element length	mm	540	580	580	620
Energy efficiency class		A	A	A	B

SERIES KHT BT Premium-01-WP-PU Water heaters with 1 heat exchanger

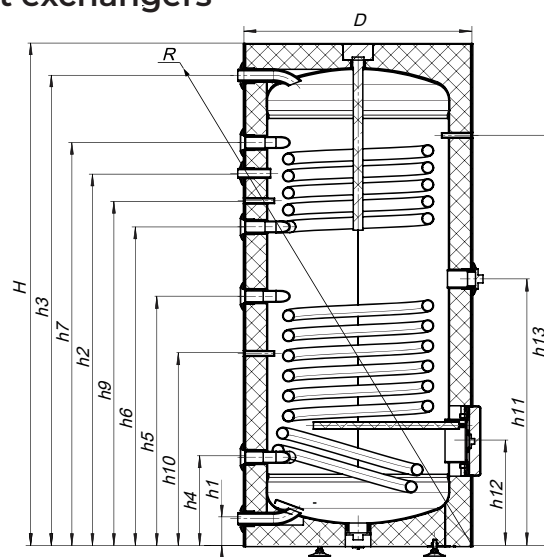


Specification	Units of measurement	Nominal volumes/ Article			
		200	300	400	500
		BTP010200WPPU	BTP010300WPPU	BTP010400WPPU	BTP010500WPPU
Cold water supply pipe h1	" / mm	1/ 77	1/ 83	1/ 83	1/ 92
Recycling pipe h2	" / mm	3/4/ 1032	3/4/ 1035	3/4/ 1268	3/4/ 1277
Hot water withdrawal pipe h3	" / mm	1/ 1303	1/ 1323	1/ 1573	1/ 1582
Lower heat exchanger return pipe h4	" / mm	1/ 247	1/ 258	5/4/ 258	5/4/ 267
Lower heat exchanger supply pipe h5	" / mm	1/ 693	1/ 778	5/4/ 843	5/4/ 852
Sensor sleeve h14	mm	956	980	1168	1177
Sleeve h10	mm	534	608	648	657
Heating element pipe h11	" / mm	6/4/ 740	6/4/ 848	6/4/ 905	6/4/ 914
TU1 inspection flange/ Heating element pipe h12	" / mm	6/4/ 292	6/4/ 303	6/4/ 303	6/4/ 312
Thermometer sleeve h13	mm	1137	1148	1398	1407
Volume of the lower heat exchanger	l	7,2	7,2	17,6	21,9
Area of the lower heat exchanger	m ²	1,14	1,14	2,0	2,5
Lower heat exchanger capacity (70/10/45°C)	kW	27	27	46	58
Constant performance of the lower heat exchanger	l/ h	650	1000	1100	1400
Operating pressure of the heat exchanger	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1391	1416	1666	1683
Diameter without insulation d/ Diameter with insulation D	mm	500/ 632	603/ 735	603/ 735	652/ 784
Total volume	l	229	338	406	480
Nominal volume	l	219	328	385	456
Magnesium anode weight	kg	0,9	0,9	1,3	1,3
Length of magnesium anodes (main / additional)	mm	400/400	400/400	650/400	650/400
Internal surface area of the boiler	m ²	3,39	4,5	5,2	5,95
Mass	kg	76	97	110	123
Tilting radius R	mm	1526	1595	1821	1856
Inspection hole	Dn	120			
Heating element length	mm	540	580	580	620
Energy efficiency class		A	A	A	B

SERIES KHT BT Premium-11-WP-PU Water heaters with 2 heat exchangers



ZETOM Katowice®



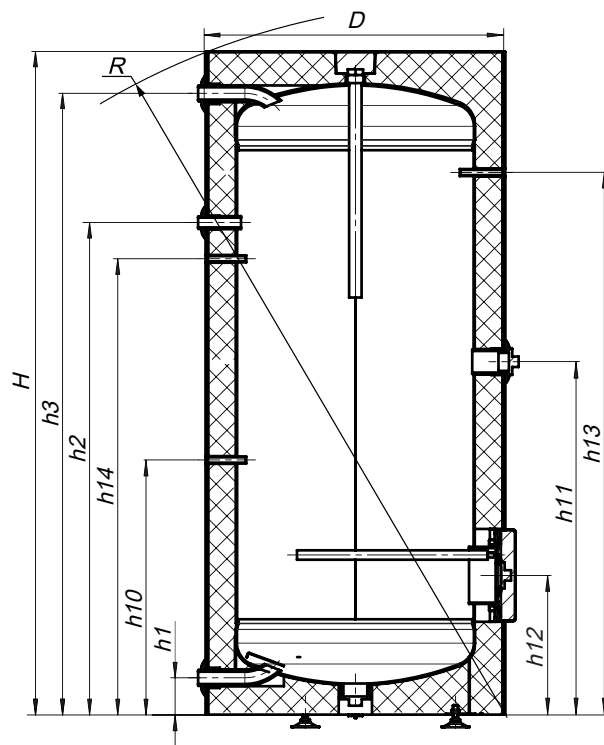
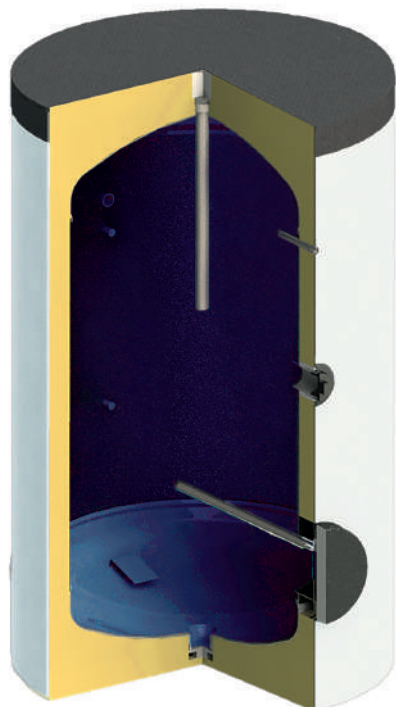
Specification	Units of measurement	Nominal volumes/ Article			
		200	300	400	500
		BTP110200WPPU	BTP110300WPPU	BTP110400WPPU	BTP110500WPPU
Cold water supply pipe h1	" / mm	1/ 77	1/ 83	1/ 83	1/ 92
Recycling pipe h2	" / mm	3/4/ 1032	3/4/ 1035	3/4/ 1268	3/4/ 1277
Hot water withdrawal pipe h3	" / mm	1/ 1303	1/ 1323	1/ 1573	1/ 1582
Lower heat exchanger return pipe h4	" / mm	1/ 247	1/ 258	5/4/ 258	5/4/ 267
Lower heat exchanger supply pipe h5	" / mm	1/ 693	1/ 778	5/4/ 843	5/4/ 852
Upper heat exchanger return pipe h6	" / mm	1/ 884	1/ 918	1/ 968	1/ 977
Upper heat exchanger supply pipe h7	" / mm	1/ 1117	1/ 1118	1/ 1368	1/ 1377
Sleeve h9	mm	956	980	1168	1177
Sleeve h10	mm	534	608	648	657
Heating element pipe h11	" / mm	6/4/ 740	6/4/ 848	6/4/ 905	6/4/ 914
TU1 inspection flange/ Heating element pipe h12	" / mm	6/4/ 292	6/4/ 303	6/4/ 303	6/4/ 312
Thermometer sleeve h13	mm	1137	1148	1398	1407
Volume of the lower heat exchanger	l	7,2	11,4	17,6	21,9
Area of the lower heat exchanger	m ²	1,14	1,8	2,0	2,5
Lower heat exchanger capacity (70/10/45°C)	kW	27	42	46	58
Constant performance of the lower heat exchanger	l/ h	650	1000	1100	1400
Volume of the upper heat exchanger	l	3,8	3,8	7,6	7,6
Upper heat exchanger area	m ²	0,6	0,6	1,2	1,2
Upper heat exchanger capacity (70/10/45°C)	kW	14	14	28	28
Constant performance of the upper heat exchanger	l/ h	350	350	700	700
Operating pressure of the heat exchangers	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1391	1416	1666	1683
Diameter without insulation d/ Diameter with insulation D	mm	500/ 632	603/ 735	603/ 735	652/ 784
Total volume	l	229	338	406	480
Nominal volume	l	215	318	376	443
Magnesium anode weight	kg	0,9	0,9	1,3	1,3
Length of magnesium anodes (main / additional)	mm	400/400	400/400	650/400	650/400
Internal surface area of the boiler	m ²	3,99	5,1	6,41	7,15
Mass	kg	84	106	127	140
Tilting radius R	mm	1526	1595	1821	1856
Inspection hole	Dn	120			
Heating element length	mm	540	580	580	620
Energy efficiency class		A	A	A	B

SERIES KHT BT-00-WP-PU

Water heaters without heat exchangers



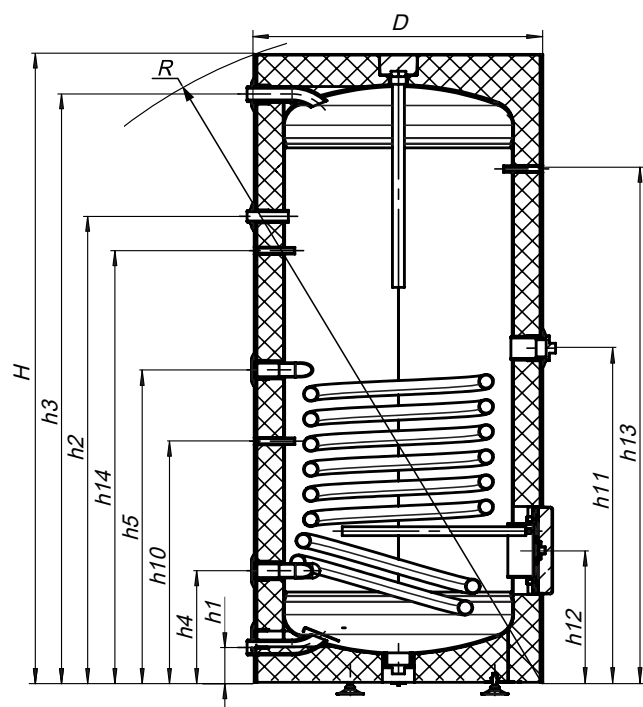
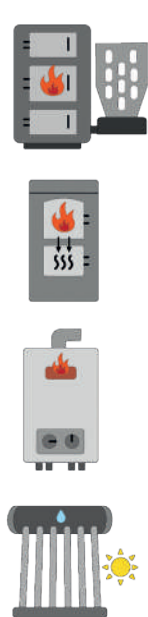
ZETOM
Kotowice®



Specification	Units of measurement	Nominal volumes/ Article			
		200	300	400	500
		BT000200WPPU	BT000300WPPU	BT000400WPPU	BT000500WPPU
Cold water supply pipe h1	" / mm	1/ 80	1/ 91	1/ 91	1/ 101
Recycling pipe h2	" / mm	3/4/ 830	3/4/ 841	3/4/ 1276	3/4/ 1286
Hot water withdrawal pipe h3	" / mm	1/ 1065	1/ 1076	1/ 1581	1/ 1591
Sleeve h10	mm	420	431	656	666
Heating element pipe h11	" / mm	6/4/ 655	6/4/ 666	6/4/ 913	6/4/ 923
TU1 inspection flange/ Heating element pipe h12	" / mm	6/4/ 280	6/4/ 291	6/4/ 311	6/4/ 321
Thermometer sleeve h13	mm	925	936	1406	1416
Sensor sleeve h14	mm	768	779	1176	1186
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1166	1196	1687	1679
Diameter without insulation d/ Diameter with insulation D	mm	502/603	603/704	603/704	652/753
Volume V	l	183	267	408	479
Magnesium anode weight	kg	0,9	0,9	1,3	1,3
Length of magnesium anodes (main / additional)	mm	400/400	400/400	650/400	650/400
Internal surface area of the boiler	m ²	1,79	2,24	3,18	3,49
Mass	kg	50	61	82	89
Tilting radius R	mm	1313	1388	1828	1841
Inspection hole	Dn	120			
Heating element length	mm	540	600	600	650
Energy efficiency class		B	B	B	B

SERIES KHT BT-01-WP-PU

Water heaters with 1 heat exchanger

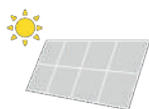


Specification	Units of measurement	Nominal volumes/ Article			
		200	300	400	500
		BT010200WPPU	BT010300WPPU	BT010400WPPU	BT010500WPPU
Cold water supply pipe h1	" / mm	1/ 80	1/ 91	1/ 91	1/ 101
Recycling pipe h2	" / mm	3/4/ 830	3/4/ 841	3/4/ 1276	3/4/ 1286
Hot water withdrawal pipe h3	" / mm	1/ 1065	1/ 1076	1/ 1581	1/ 1591
Lower heat exchanger return pipe h4	" / mm	1/ 235	1/ 246	1/ 266	1/ 276
Lower heat exchanger supply pipe h5	" / mm	1/ 605	1/ 616	1/ 851	1/ 861
Sleeve h10	mm	420	431	656	666
Heating element pipe h11	" / mm	6/4/ 655	6/4/ 666	6/4/ 913	6/4/ 923
TU1 inspection flange/ Heating element pipe h12	" / mm	6/4/ 280	6/4/ 291	6/4/ 311	6/4/ 321
Thermometer sleeve h13	mm	925	936	1406	1416
Sensor sleeve h14	mm	768	779	1176	1186
Volume of the lower heat exchanger	l	6	7,6	13,9	13,9
Area of the lower heat exchanger	m ²	0,9	1,2	1,6	1,6
Lower heat exchanger capacity (70/10/45°C)	kW	21	28	37	37
Constant performance of the lower heat exchanger	l/ h	500	700	900	900
Operating pressure of the heat exchanger	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1166	1196	1687	1679
Diameter without insulation d/ Diameter with insulation D	mm	502/603	603/704	603/704	652/753
Total volume	l	183	267	408	479
Nominal volume	l	175	257	391	462
Magnesium anode weight	kg	0,9	0,9	1,3	1,3
Length of magnesium anodes (main / additional)	mm	400/400	400/400	650/400	650/400
Internal surface area of the boiler	m ²	2,69	3,45	4,76	5,07
Mass	kg	63	78	104	111
Tilting radius R	mm	1313	1388	1828	1841
Inspection hole	Dn	120			
Heating element length	mm	540	580	580	620
Energy efficiency class		B	B	B	B



SERIES KHT BT-00-GP-PS

Water heaters without heat exchangers in removable insulation



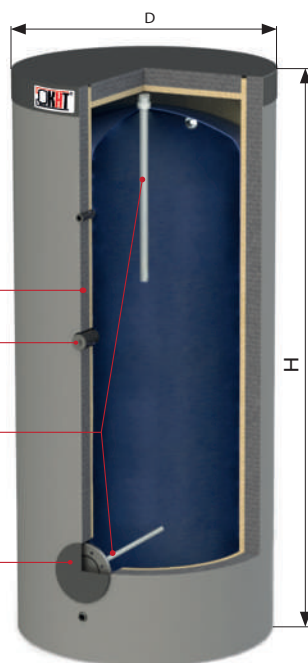
High-quality ceramic enamel

Composite high-performance removable thermal insulation, 80 mm

Hole for electric heating element

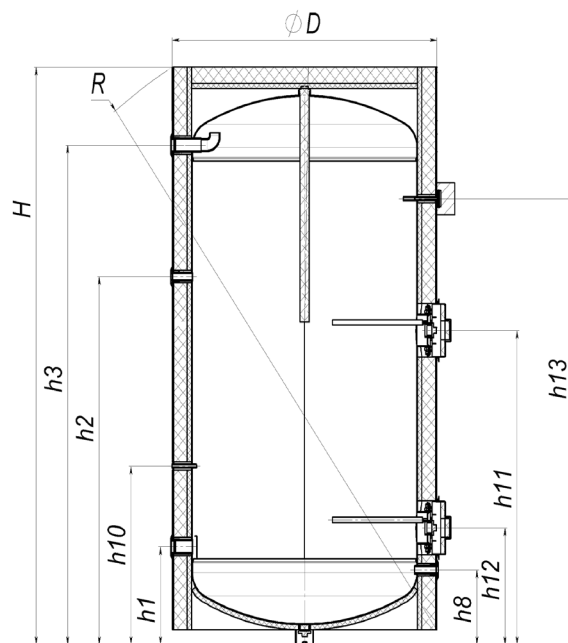
2 magnesium anodes

Inspection flange



P_{max}
6 bar

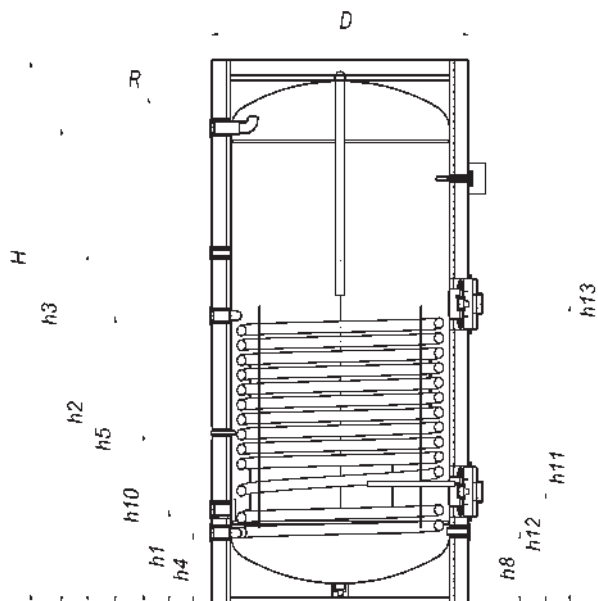
T_{max}
95° C



Specification	Units of measurement	Nominal volumes/ Article			
		750	1000	1500	2000
		BT000750GPPS	BT0001000GPPS	BT0001500GPPS	BT0002000GPPS
Cold water supply pipe h1	" / mm	5/4/ 318	6/4/ 277	6/4/ 305	6/4/ 342
Recycling pipe h2	" / mm	3/4/ 1628	3/4/ 1422	3/4/ 1310	3/4/ 1497
Hot water withdrawal pipe h3	" / mm	5/4/ 1803	6/4/ 1765	6/4/ 1800	6/4/ 1830
Drain pipe h8	" / mm	3/4/ 232	3/4/ 191	3/4/ 214	3/4/ 256
Sleeve h10	mm	638	577	605	542
TU1 inspection flange/ Heating element pipe h11	" / mm	DN 120 - 6/4 / 1193	DN 120 - 6/4 / 1322	DN 120 - 6/4 / 1148	DN 120 - 6/4 / 1237
TU1 inspection flange/ Heating element pipe h12	" / mm	DN 120 - 6/4 / 388	DN 120 - 6/4 / 347	DN 120 - 6/4 / 375	DN 120 - 6/4 / 412
Sleeve h13	mm	1613	1572	1600	1587
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1972	1944	2049	2170
Diameter without insulation d/ Diameter with insulation D	mm	750/ 920	850/ 1020	1000/ 1170	1200/ 1370
Volume V	l	766	973	1430	2123
Magnesium anode weight	kg	2,1	2,5	2,6	2,6
Length of magnesium anodes (main / additional)	mm	650/400	800/400	850/400	650/400
Internal surface area of the boiler	m ²	4,72	5,54	6,94	9,54
Mass	kg	129	155	184	251
Tilting radius R	mm	1990	1965	2075	2250
Heating element length	mm	700	820	950	1120
Energy efficiency class		B	B	C	C

SERIES KHT BT-01-GP-PS

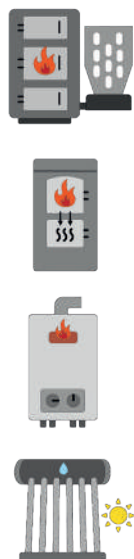
Water heaters with 1 heat exchanger in removable insulation



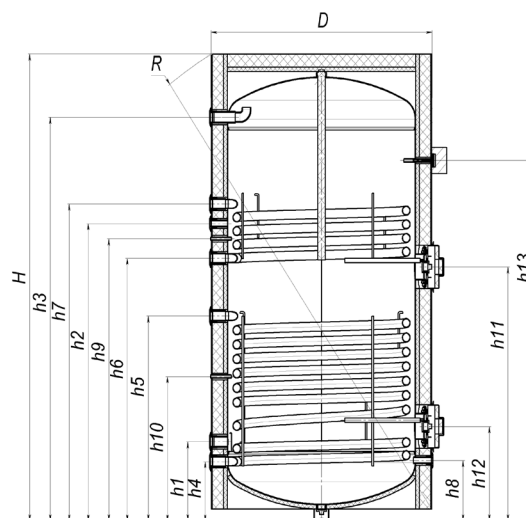
Specification	Units of measurement	Nominal volumes/ Article			
		750	1000	1500	2000
		BT010750GPPS	BT0101000GPPS	BT0101500GPPS	BT0102000GPPS
Cold water supply pipe h1	" / mm	5/4 / 310	6/4 / 300	6/4 / 343	6/4 / 342
Recycling pipe h2	" / mm	3/4 / 1620	3/4 / 1445	3/4 / 1348	3/4 / 1502
Hot water withdrawal pipe h3	" / mm	5/4 / 1790	6/4 / 1880	6/4 / 1838	6/4 / 1887
Lower heat exchanger return pipe h4	" / mm	5/4 / 224	5/4 / 213	5/4 / 252	5/4 / 256
Lower heat exchanger supply pipe h5	" / mm	5/4 / 1133	5/4 / 1283	5/4 / 1102	5/4 / 1126
Drain pipe h8	" / mm	3/4 / 225	3/4 / 214	3/4 / 257	3/4 / 256
Sleeve h10	mm	810	600	642	547
TU1 inspection flange/ Heating element pipe h11	" / mm	DN 120 - 6/4 / 1185	DN 120 - 6/4 / 1345	DN 120 - 6/4 / 1148	DN 120 - 6/4 / 1237
TU1 inspection flange/ Heating element pipe h12	" / mm	DN 120 - 6/4 / 380	DN 120 - 6/4 / 370	DN 120 - 6/4 / 375	DN 120 - 6/4 / 412
Sleeve h13	mm	1605	1595	1638	1587
Volume of the lower heat exchanger	l	27,8	41,7	41,7	41,7
Area of the lower heat exchanger	m ²	3,15	4,75	4,75	4,75
Lower heat exchanger capacity (70/10/45°C)	kW	73	110	110	110
Constant performance of the lower heat exchanger	l/ h	1400	2700	2700	2700
Operating pressure of the heat exchanger	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	2035	2040	2049	2170
Diameter without insulation d/ Diameter with insulation D	mm	750/ 920	850/ 1020	1000/ 1170	1200/ 1370
Total volume	l	766	973	1430	2123
Nominal volume	l	724	926	1380	2073
Magnesium anode weight	kg	2,1	2,5	2,6	2,6
Length of magnesium anodes (main / additional)	mm	650/400	800/400	850/400	650/400
Internal surface area of the boiler	m ²	8,05	10,29	11,42	13,1
Mass	kg	162	220	263	339
Tilting radius R	mm	1990	1965	2075	2250
Heating element length	mm	700	820	950	1120
Energy efficiency class		B	B	C	C

SERIES KHT BT-11-GP-PS

Water heaters with 2 heat exchangers in removable insulation

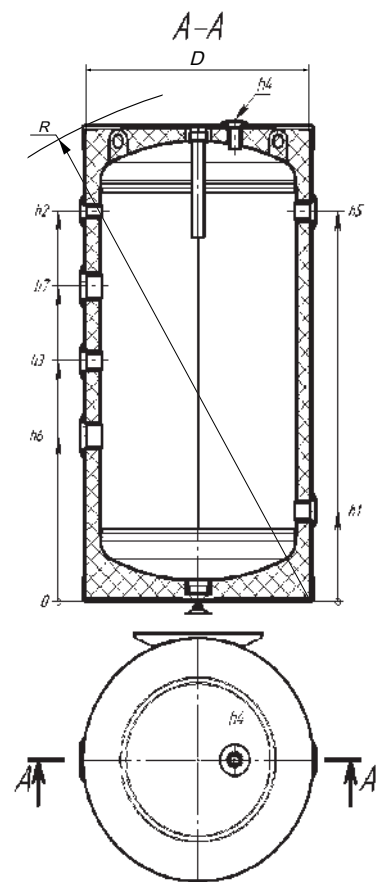
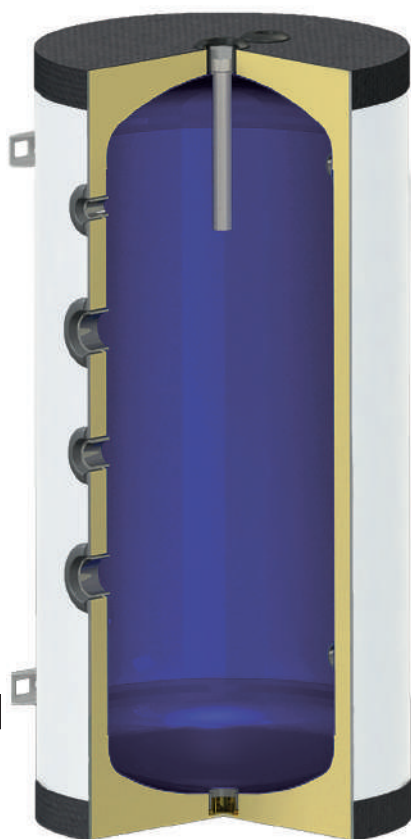


ZETom
Katowice



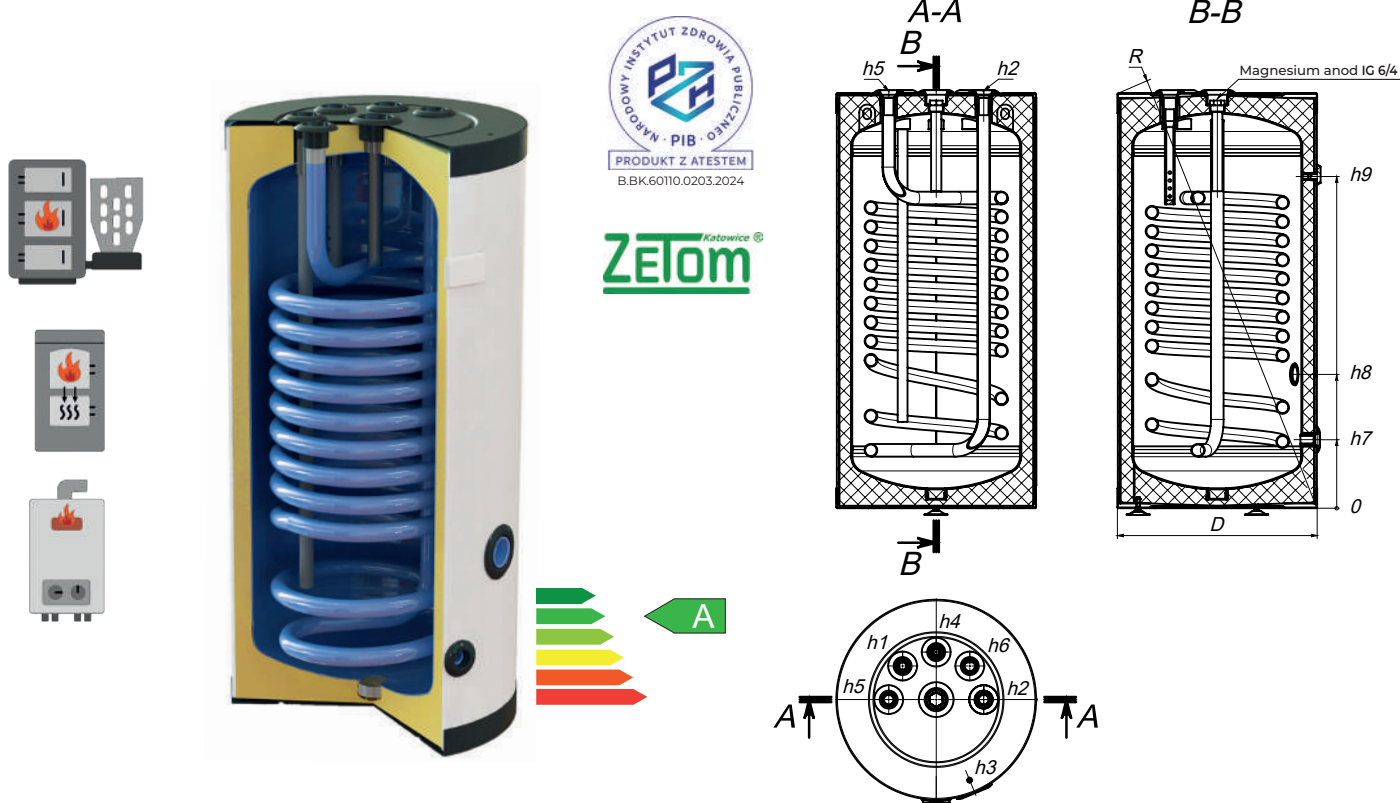
Specification	Units of measurement	Nominal volumes/ Article			
		750	1000	1500	2000
		BT110750GPPS	BT1101000GPPS	BT1101500GPPS	BT1102000GPPS
Cold water supply pipe h1	" / mm	5/4 / 310	6/4 / 213	6/4 / 343	6/4/377
Recycling pipe h2	" / mm	3/4 / 1620	3/4 / 1445	3/4 / 1348	3/4/1532
Hot water withdrawal pipe h3	" / mm	5/4 / 1790	6/4 / 1790	6/4 / 1838	6/4/1867
Lower heat exchanger return pipe h4	" / mm	5/4 / 224	5/4 / 213	5/4 / 252	5/4/286
Lower heat exchanger supply pipe h5	" / mm	5/4 / 1133	5/4 / 893	5/4 / 922	5/4/1156
Upper heat exchanger return pipe h6	" / mm	1 / 1320	5/4 / 1245	5/4 / 1188	5/4/1372
Upper heat exchanger supply pipe h7	" / mm	1 / 1700	5/4 / 1445	5/4 / 1438	5/4/1622
Drain pipe h8	" / mm	225	3/4 / 214	3/4 / 257	3/4/291
Sleeve h9	mm	1520	1345	1278	1462
Sleeve h10	mm	810	600	643	577
TU1 inspection flange/ Heating element pipe h11	" / mm	DN 120 - 6/4 / 1185	DN 120 - 6/4 / 1105	DN 120 - 6/4 / 1148	DN 120 - 6/4 / 1237
TU1 inspection flange/ Heating element pipe h12	" / mm	DN 120 - 6/4 / 380	DN 120 - 6/4 / 370	DN 120 - 6/4 / 375	DN 120 - 6/4 / 412
Sleeve h13	mm	1605	1595	1638	1622
Volume of the lower heat exchanger	l	34,7	26,6	29,5	41,7
Area of the lower heat exchanger	m ²	3,15	3	3,36	4,75
Lower heat exchanger capacity (70/10/45°C)	kW	69	74	74	110
Constant performance of the lower heat exchanger	l/h	1700	1800	1800	2700
Volume of the upper heat exchanger	l	7,6	13,9	12,7	13,9
Upper heat exchanger area	m ²	1,2	1,6	1,46	1,6
Upper heat exchanger capacity (70/10/45°C)	kW	28	37	37	37
Constant performance of the upper heat exchanger	l/h	700	900	900	900
Operating pressure of the heat exchangers	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	2035	2040	2049	2170
Diameter without insulation d/ Diameter with insulation D	mm	750/ 920	850/ 1020	1000/ 1170	1200/ 1370
Total volume	l	766	973	1430	2123
Nominal volume	l	715	927	1380	2057
Magnesium anode weight	kg	2,1	2,5	2,6	2,6
Length of magnesium anodes (main / additional)	mm	650/400	800/400	850/400	650/400
Internal surface area of the boiler	m ²	9,15	10,3	11,42	14,68
Mass	kg	198	196	258	341
Tilting radius R	mm	1990	2048	2075	2250
Heating element length	mm	700	820	950	1120
Energy efficiency class		B	B	C	C

SERIES KHT BT-PV-00-WP-PU stationary-suspended



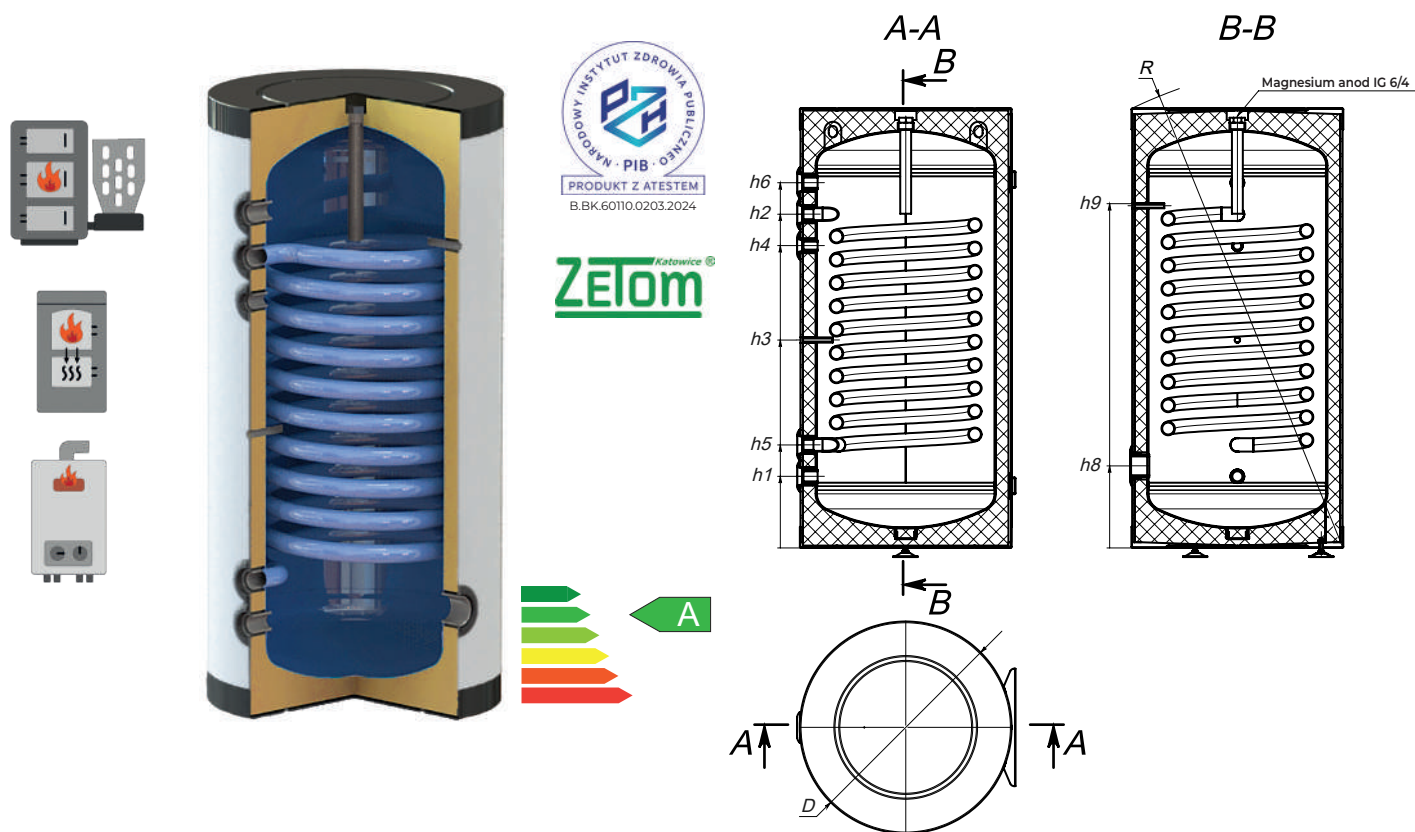
Specification	Units of measurement	Nominal volumes/ Article
		120
		BTPV000120WPPU
Cold water supply pipe/ Drain pipe h1	" / mm	1 / 189
Thermometer sleeve h2	" / mm	1/2 / 809
Recycling pipe h3	mm	1 / 499
Connection/vent pipe h4	" / mm	1/2 / 1019
Hot water withdrawal pipe h5	" / mm	1 / 809
Heating element pipe h6	" / mm	6/4 / 344
Heating element pipe h7	" / mm	6/4 / 654
Maximum working pressure of the tank	MPa	0,6
Total height H	mm	1049
Diameter without insulation d/ Diameter with insulation D	mm	505/ 430
Nominal volume	l	118
Magnesium anode weight	kg	0,5
Length of magnesium anode	mm	300
Mass	kg	41
Tilting radius R	mm	1162
Heating element length	mm	430
Energy efficiency class		A

SERIES KHT BT-U-01-WP-PU for connection to gas and pellet boilers, stationary-suspended



Specification	Units of measurement	Nominal volumes/ Article		
		100	120	140
		BTU010100WPPU	BTU010120WPPU/2	BTU010140WPPU
Cold water supply pipe h1	" / mm	3/4 / 836	3/4 / 1057	3/4 / 1149
Heat exchanger return pipe h2	" / mm	3/4 / 836	3/4 / 1057	3/4 / 1149
Sleeve h3	mm	836	1057	1149
Recycling pipe h4	" / mm	3/4 / 836	3/4 / 1057	3/4 / 1149
Heat exchanger supply pipe h5	" / mm	3/4 / 836	3/4 / 1057	3/4 / 1149
Hot water withdrawal pipe h6	" / mm	3/4 / 836	3/4 / 1057	3/4 / 1149
Drain pipe h7	" / mm	1/2 / 160	1/2 / 173	1/2 / 160
Heating element pipe h8	mm	6/4 / 275	6/4 / 338	6/4 / 325
Sleeve h9	mm	650	838	925
Heat exchanger volume	l	8,1	7,6	8,9
Heat exchanger area	m²	1,05	1,2	1,41
Heat exchanger capacity (70/10/45°C)	kW	25	28	33
Constant heat exchanger performance	l/ h	615	700	812
Operating pressure of the heat exchanger	MPa	1	1	1
Maximum working pressure of the tank	MPa	0,6	0,6	0,6
Total height H	mm	836	1057	1149
Diameter without insulation d/ Diameter with insulation D	mm	430/505	430/505	430/505
Total volume	l	97	126	142
Nominal volume	l	89	116	131
Magnesium anode weight	kg	0,47	0,6	0,63
Length of magnesium anode	mm	300	350	400
Mass	kg	40	47	52
Tilting radius R	mm	873	1162	1176
Heating element length	mm	380	380	380
Energy efficiency class		A	A	A

SERIES KHT KHT BT-S-01-WP-PU
for connection to gas and pellet boilers, stationary-suspended



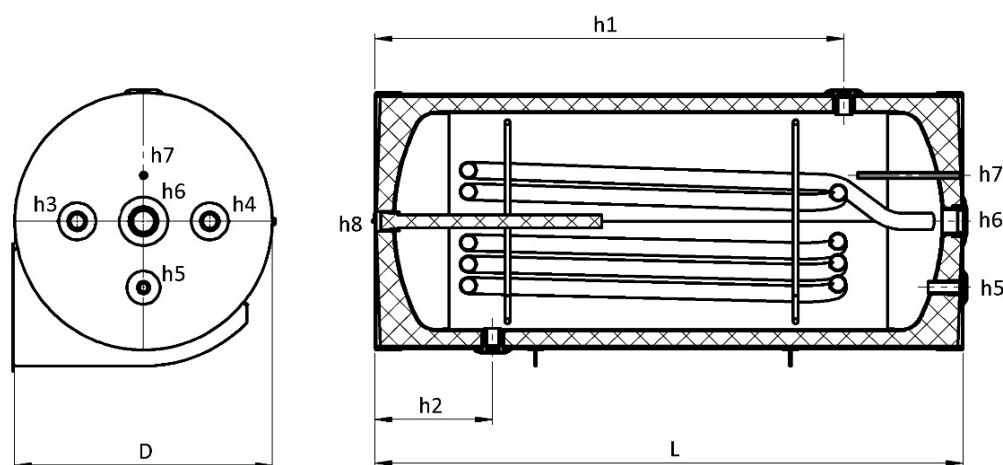
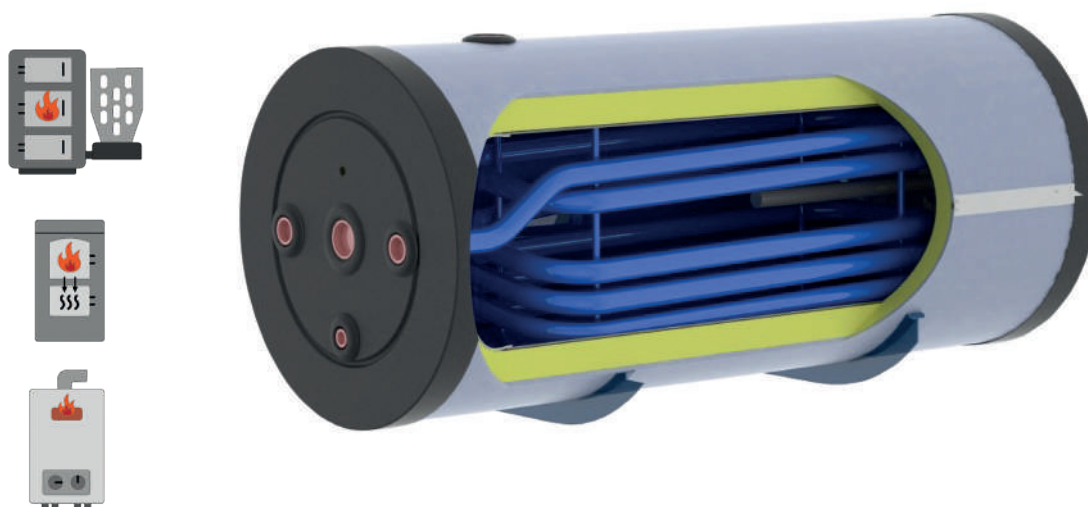
Specification	Units of measurement	Nominal volumes/ Article		
		100	120	140
		BTS010100WPPU	BTS010120WPPU	BTS010140WPPU
Cold water supply pipe/ Drain pipe h1	" / mm	3/4 / 158	3/4 / 158	3/4 / 158
Heat exchanger return pipe h5	" / mm	3/4 / 233	3/4 / 246	3/4 / 233
Sleeve h3	mm	433	483	593
Recycling pipe h4	" / mm	1/2 / 508	1/2 / 708	1/2 / 808
Heat exchanger supply pipe h2	" / mm	3/4 / 583	3/4 / 783	3/4 / 883
Hot water withdrawal pipe h6	" / mm	3/4 / 658	3/4 / 858	3/4 / 958
Heating element pipe h8	mm	6/4 / 183	6/4 / 183	6/4 / 183
Sleeve h9	mm	603	803	913
Heat exchanger volume	l	6,3	6,3	7,92
Heat exchanger area	m ²	0,75	1	1,25
Heat exchanger capacity (70/10/45°C)	kW	17	23	29
Constant heat exchanger performance	l/ h	418	600	713
Operating pressure of the heat exchangers	MPa	1	1	1
Maximum working pressure of the tank	MPa	0,6	0,6	0,6
Total height H	mm	822	1013	1132
Diameter without insulation d/ Diameter with insulation D	mm	430/505	430/505	430/505
Total volume	l	97	126	143
Nominal volume	l	90	116	132
Magnesium anode weight	kg	0,47	0,5	0,63
Length of magnesium anode	mm	300	300	400
Mass	kg	34	37	49
Tilting radius R	mm	860	1162	1346
Heating element length	mm	450	450	450
Energy efficiency class		A	A	A

SERIES KHT BT-H-01-140-GP-PU

Ideal for gas and pellet boilers



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Specification	Units of measurement	Nominal volumes/ Article
		140
		BTH001140GPPU
Hot water withdrawal pipe h1	" / mm	3/4 / 920
Cold water supply pipe h2	"	3/4/ 231
Heat exchanger return pipe h3	"	1
Heat exchanger supply pipe h4	"	1
Connection pipes h5	"	1/2
Heating element pipe h6	"	6/4
Temperature sensor sleeve h7	mm	12
Magnesium anode connection h8	"	6/4
Heat exchanger volume	l	7,6
Heat exchanger area	m ²	0,96
Heat exchanger capacity (70/10/45°C)	kW	23
Operating pressure of the heat exchangers	MPa	1
Maximum working pressure of the tank	MPa	0,6
Length L	mm	1153
Diameter without insulation d/ Diameter with insulation D	mm	430/505
Total volume/ Nominal volume	l	144/136
Mass	kg	48
Energy efficiency class		B

PREMIUM KHT BTM WATER HEATERS IN SOLID PU INSULATION

BTM series water heaters are designed for efficient storage of hot water for domestic use and are ideal for low-temperature systems, such as heat pumps and condensing boilers. They are made of carbon steel and coated with high quality ceramic enamel suitable for drinking water. The water heaters are equipped with a DN 120 inspection flange opening. The heat exchangers are made of carbon steel. The maximum working pressure is 0.6 MPa, the temperature is 95°C.

BTM water heaters are manufactured from 200 to 500 litres in solid PU insulation, from 750 to 1000 litres – in removable insulation.



Marking: KHT BT-PREMIUM-XY-V-WP-PU KHT BT-XY-V-GP-PS

BTM - series

X - number of upper heat exchangers

Y - number of lower heat exchangers

V - standard size

WP-PU - white insulation color, solid polyurethane foam insulation

GP-PS - gray insulation color, removable insulation

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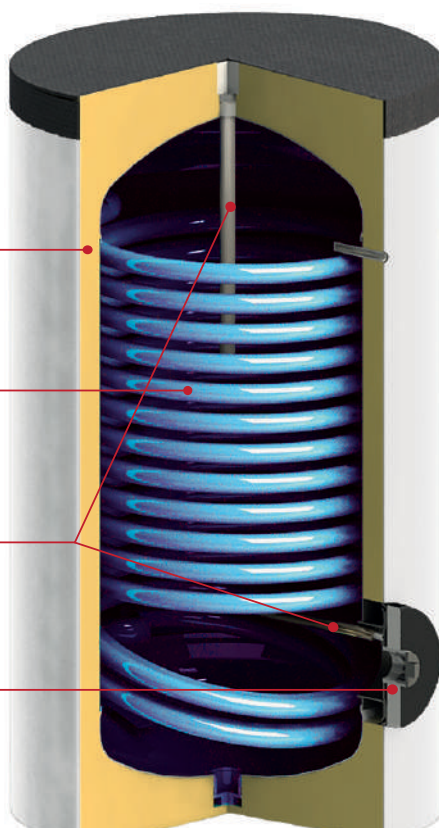
High-quality ceramic enamel

Rigid PUR foam insulation 60 mm thick

Carbon steel heat exchangers

2 magnesium anodes

Inspection flange

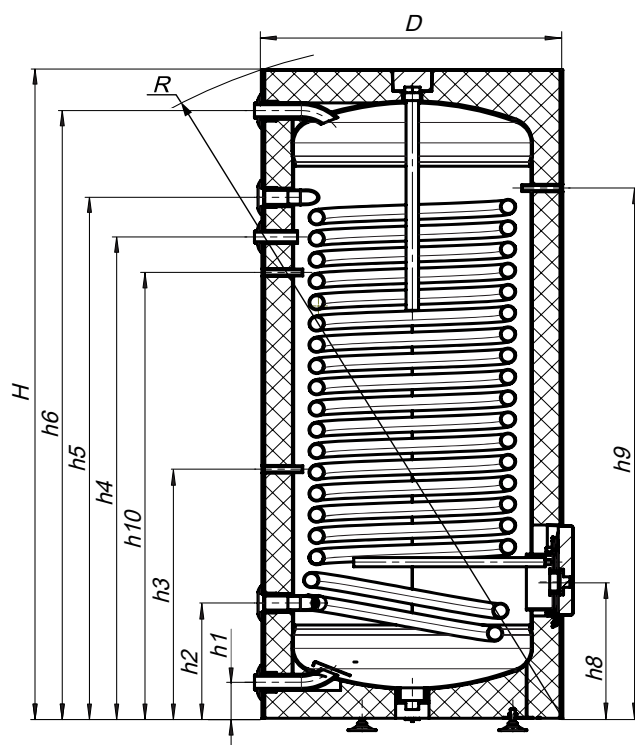


$P_{\max}$
6 bar

$T_{\max}$
95° C

SERIES KHT BTM Premium-WP-PU

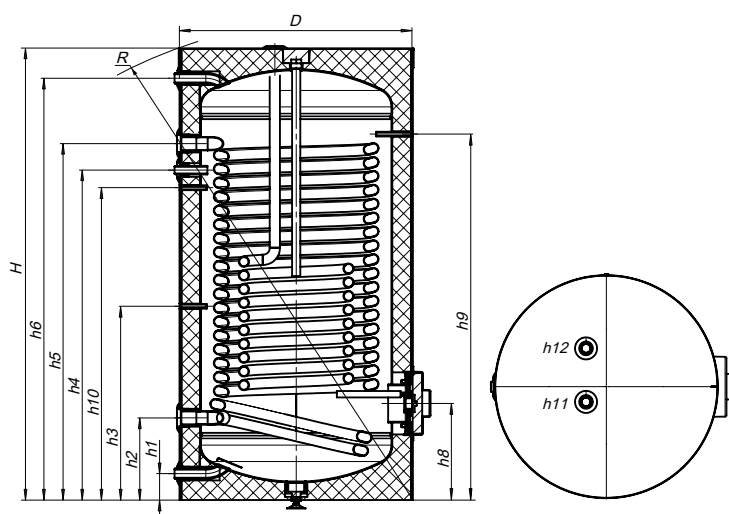
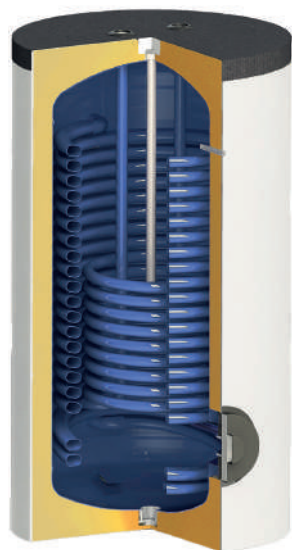
Water heaters for heat pumps with 1 heat exchanger



Specification	Units of measurement	Nominal volumes/ Article			
		200	300	400	500
		BTMP0200WPPU	BTMP0300WPPU	BTMP0400WPPU	BTMP0500WPPU
Cold water supply pipe h1	" / mm	1 / 77	1 / 83	1 / 83	1 / 92
Heat exchanger return pipe h2	" / mm	1 / 247	5/4 / 258	5/4 / 258	5/4 / 267
Dry sleeve h3	mm	534	608	648	657
Recycling pipe h4	" / mm	3/4 / 1032	3/4 / 1035	3/4 / 1268	3/4 / 1277
Heat exchanger supply pipe h5	" / mm	1 / 1117	5/4 / 1118	5/4 / 1368	5/4 / 1377
Hot water withdrawal pipe h6	" / mm	1 / 1303	1 / 1323	1 / 1573	1 / 1582
Inspection flange/ Heating element pipe h8	" / mm	6/4 / 292	6/4 / 303	6/4 / 303	6/4 / 312
Dry sleeve h9	mm	1137	1148	1398	1407
Sleeve h10	mm	956	980	1168	1177
Heat exchanger volume	l	16,5	35,8	46,6	53,8
Heat exchanger area	m ²	2,6	4,0	5,15	5,94
Heat exchanger capacity (70/10/45°C)	kW	60	92	119	137
Constant heat exchanger performance	l/ h	1500	2300	3000	3400
Operating pressure of the heat exchangers	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1391	1416	1666	1683
Diameter without insulation d/ Diameter with insulation D	mm	500/ 632	603/ 735	603/ 735	652/784
Total volume	l	229	338	406	480
Nominal volume	l	208	294	352	419
Magnesium anode weight	kg	1,1	1,5	1,7	1,9
Length of magnesium anodes (main / additional)	mm	500/400	750/400	850/400	1000/400
Internal surface area of the boiler	m ²	4,86	6,65	8,37	9,49
Mass	kg	95	119	143	159
Tilting radius R	mm	1526	1595	1821	1856
Heating element length	mm	450	580	580	620
Energy efficiency class		A	A	A	B

SERIES KHT BTM Premium-11-WP-PU

Water heaters for heat pumps with 2 heat exchangers



Specification	Units of measurement	Nominal volumes/ Article		
		200	300	400
		BTMP11200WPPU	BTMP11300WPPU	BTMP11400WPPU
Cold water supply pipe h1	" / mm	1/ 77	1/ 83	1/ 92
External heat exchanger return pipe h2	" / mm	1/ 247	1/ 258	5/4 / 267
Dry sleeve h3	mm	534	608	657
Recycling pipe h4	" / mm	3/4 / 1032	3/4 / 1035	3/4 / 1277
External heat exchanger supply pipe h5	" / mm	1/ 1117	1/ 1118	5/4 / 1377
Hot water withdrawal pipe h6	" / mm	1/ 1303	1/ 1323	1/ 1581
Inspection flange/ Heating element pipe h8	" / mm	292	303	312
Dry sleeve h9	mm	1137	1148	1407
Sleeve h10	mm	956	980	1177
Internal heat exchanger return pipe h11	" / mm	1/ 1391	1/ 1424	1/ 1679
Internal heat exchanger supply pipe h12	" / mm	1/ 1391	1/ 1424	1/ 1679
Volume of internal/external heat exchanger	l	6,4 / 16,5	7,2 / 30,0	9,65 / 60,55
Area of internal/external heat exchanger	m ²	1,02 / 2,6	1,1 / 4,0	1,2 / 6,06
Internal/external heat exchanger capacity (70/10/45°C)	kW	24 / 60	26 / 92	28 / 140
Constant performance of the internal/external heat exchanger	l/ h	590/ 1474	640/ 2300	670 / 3440
Operating pressure of the heat exchangers	MPa	1	1	1
Maximum working pressure of the tank	MPa	0,6	0,6	0,6
Total height H	mm	1391	1424	1679
Diameter without insulation d/ Diameter with insulation D	mm	502/ 634	603/ 735	652/ 784
Total volume	l	233	333	472
Nominal volume	l	210	289	403
Magnesium anode weight	kg	1,3	1,7	2,3
Length of magnesium anodes (main / additional)	mm	650/400	850/400	850/400
Internal surface area of the boiler	m ²	5,86	7,78	11,6
Mass	kg	100	133	163
Tilting radius R	mm	1526	1595	1856
Heating element length	mm	450	580	620
Energy efficiency class		A	A	A

ATTENTION!

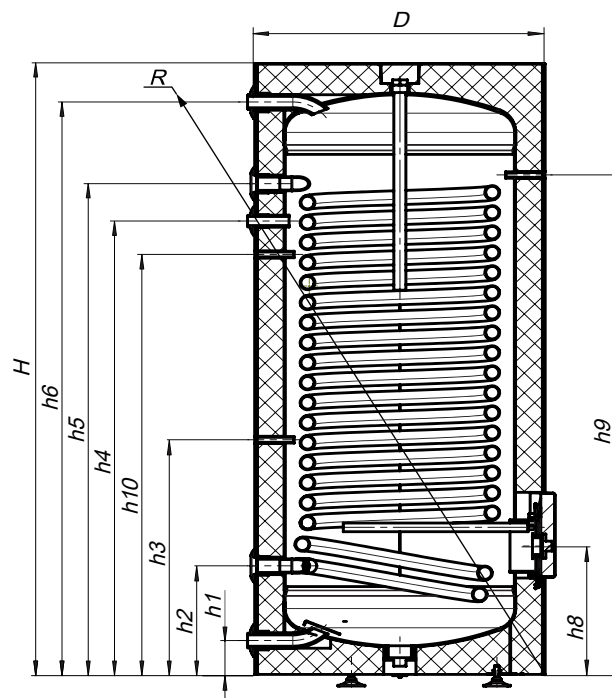
Water heaters with a capacity from 500 to 2000 liters are available on request with removable PS insulation and two or three heat exchangers (according to the sketch).

SERIES KHT BTM-WP-PU

Water heaters for heat pumps with 1 heat exchanger



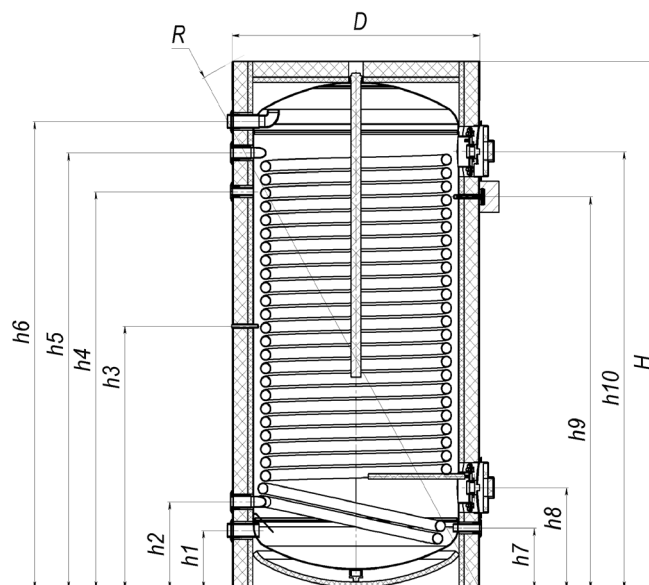
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Specification	Units of measurement	Nominal volumes/ Article			
		200	300	400	500
		BTM0200WPPU	BTM0300WPPU	BTM0400WPPU	BTM0500WPPU
Cold water supply pipe h1	" / mm	1 / 80	1 / 91	1 / 91	1 / 101
Heat exchanger return pipe h2	" / mm	1 / 235	5/4 / 246	5/4 / 266	5/4 / 276
Dry sleeve h3	mm	420	431	656	666
Recycling pipe h4	" / mm	3/4 / 830	3/4 / 841	3/4 / 1276	3/4 / 1286
Heat exchanger supply pipe h5	" / mm	1 / 915	5/4 / 926	5/4 / 1376	5/4 / 1386
Hot water withdrawal pipe h6	" / mm	1 / 1065	1 / 1076	1 / 1581	1 / 1591
Inspection flange/ Heating element pipe h8	" / mm	6/4 / 280	6/4 / 291	6/4 / 311	6/4 / 321
Dry sleeve h9	mm	925	936	1406	1416
Sleeve h10	mm	768	779	1176	1186
Heat exchanger volume	l	13	27,8	32,4	38,2
Heat exchanger area	m ²	2,4	3,1	3,7	4,4
Heat exchanger capacity (70/10/45°C)	kW	56	72	86	102
Constant heat exchanger performance	l/ h	1400	1800	2100	2500
Operating pressure of the heat exchangers	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	1166	1196	1687	1679
Diameter without insulation d/ Diameter with insulation D	mm	502/603	603/704	603/704	652/753
Total volume	l	183	267	408	479
Nominal volume	l	167	238	369	433
Magnesium anode weight	kg	0,9	1,1	1,5	1,7
Length of magnesium anodes (main / additional)	mm	400/400	500/400	750/400	850/400
Internal surface area of the boiler	m ²	3,8	5,1	6,87	7,84
Mass	kg	77	102	132	148
Tilting radius R	mm	1313	1388	1828	1841
Heating element length	mm	450	580	580	620
Energy efficiency class		B	B	B	B

SERIES KHT BTM-GP-PS

Water heaters for heat pumps in removable insulation



Specification	Units of measurement	Nominal volumes/ Article			
		750	1000	1500	2000
		BTM0750GPPS	BTM1000GPPS	BTM1500GPPS	BTM2000GPPS
Cold water supply pipe h1	" / mm	6/4 / 214	6/4 / 204	6/4 / 274	6/4 / 296
Heat exchanger return pipe h2	" / mm	5/4 / 325	5/4 / 315	6/4 / 365	6/4 / 407
Sleeve h3	mm	875	995	840	1087
Recycling pipe h4	" / mm	3/4 / 1425	3/4 / 1515	3/4 / 1515	3/4 / 1607
Heat exchanger supply pipe h5	" / mm	5/4 / 1575	5/4 / 1665	6/4 / 1404	6/4 / 1757
Hot water withdrawal pipe h6	" / mm	6/4 / 1798	6/4 / 1786	6/4 / 1860	6/4 / 1879
Drain pipe h7	" / mm	3/4 / 224	3/4 / 214	3/4 / 279	3/4 / 306
Inspection flange/ Heating element pipe h8	mm	6/4 / 380	6/4 / 370	6/4 / 435	6/4 / 462
Sleeve h9	mm	1505	1495	1585	1587
Inspection flange with heating element h10	mm	6/4 / 1675	6/4 / 1670	6/4 / 1735	1762
Heat exchanger volume	l	55,6	58,3	116,7	159
Heat exchanger area	m ²	6,3	7,9	11,1	15,4
Heat exchanger capacity (70/10/45°C)	kW	145	182	256	355
Constant heat exchanger performance	l/h	3600	4500	6300	8700
Operating pressure of the heat exchangers	MPa	1			
Maximum working pressure of the tank	MPa	0,6			
Total height H	mm	2035	2040	2088	2155
Diameter without insulation d/ Diameter with insulation D	mm	750/ 920	850/ 1020	1000/ 1170	1200 / 1370
Total volume	l	766	973	1430	1430
Nominal volume	l	700	903	1313	1271
Magnesium anode weight	kg	2,3	3,1	2,3	4,9
Length of magnesium anodes (main / additional)	mm	850/400	1150/400	850/400	950 / 950
Internal surface area of the boiler	m ²	11,26	13,6	17,7	18,35
Mass	kg	213	284	313	481
Tilting radius R	mm	1924	2048	2100	2170
Heating element length	mm	700	820	900	1070
Energy efficiency class		B	B	B	B

*The manufacturer reserves the right to change the technical data given in the tables.

BBT series water heaters are designed for heating and storage of hot water for domestic purposes in large volumes. For corrosion protection, the inner surface of the water heaters is covered with high-quality ceramic enamel in models up to 2000 litres and epoxy enamel in models from 2500 to 10000 litres. For additional protection, magnesium anodes are installed, the size of which is selected according to the internal surface of the water heater. The thermal insulation is made of soft polyurethane (foam) with a closed-cell structure, 80 mm thick, and is covered with artificial leather on the outside.

BBT water heaters come with one inspection opening of TU5 size.



Marking: BBT-V

BBT - series
V - standard size



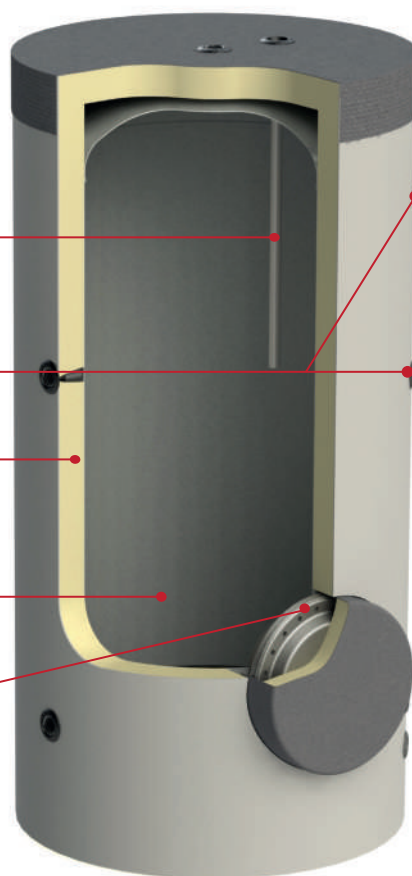
Size of magnesium anodes according to boiler volume

1/2" thermometer holes

Thermal insulation made of soft polyurethane foam with a closed-cell structure, 80 mm thick

High-quality ceramic enamel for models up to 2000 l, from 2500-3000 l - epoxy enamel

Inspection opening TU5



$P_{\max}$
6 bar

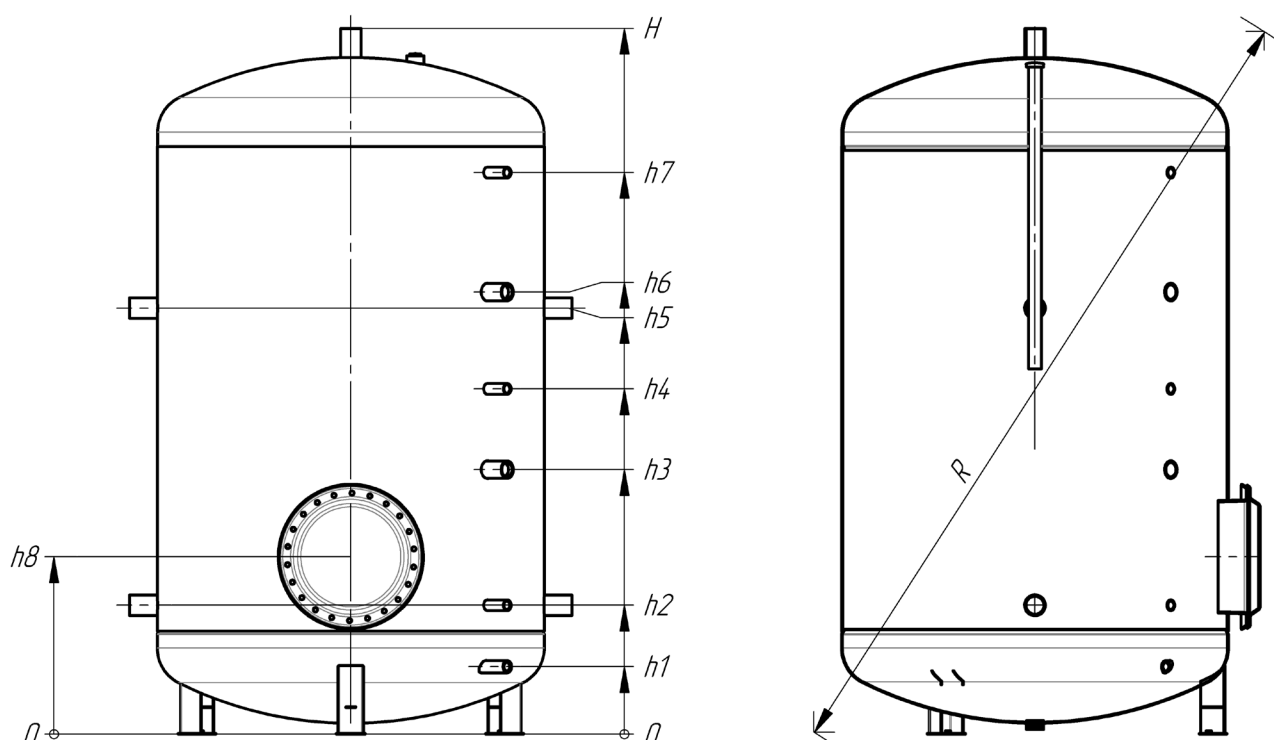
$T_{\max}$
95° C

SERIES BBT



Specification	Units of measurement	Nominal volumes/ Article				
		750	1000	1500	2000	2500
		BBT0000750PD	BBT0001000PD	BBT0001500PD	BBT0002000PD	BBT0002500PD
Connection pipes / Drain pipe h1	"/ mm	1 / 215	1 / 201	1 / 267	1 / 209	1 / 335
Connection pipes h2	"/ mm	6/4 / 336	6/4 / 326	2 / 392	2 / 399	2 / 460
Temperature sensor sleeve h2	"/ mm	3/4 / 336	3/4 / 326	3/4 / 392	3/4 / 399	3/4 / 460
Connection pipes h3	"/ mm	6/4 / 756	6/4 / 746	6/4 / 802	6/4 / 819	6/4 / 870
Temperature sensor sleeve h4	"/ mm	3/4 / 1031	3/4 / 996	3/4 / 1062	3/4 / 1069	3/4 / 1130
Connection pipes h5	"/ mm	6/4 / 1256	6/4 / 1246	6/4 / 1312	2 / 1319	2 / 1380
Connection pipes h6	"/ mm	6/4 / 1306	6/4 / 1246	6/4 / 1322	6/4 / 1319	6/4 / 1390
Temperature sensor sleeve h7	"/ mm	3/4 / 1676	3/4 / 1666	3/4 / 1732	3/4 / 1739	3/4 / 1800
Inspection opening TU5 h8	"/ mm	420 / 516	420 / 524	420 / 572	420 / 579	420 / 640
Maximum operating pressure of the water heater P	MPa	0.6				
Height H	mm	2025	2045	2135	2186	2242
Diameter without insulation d	mm	750	850	1000	1200	1300
Diameter with insulation D	mm	920	1020	1170	1370	1470
Volume V	l	760	988	1422	2046	2411
Weight M	kg	130	161	193	283	372
Tilting radius R	mm	2224	2276	2417	2580	2664
Magnesium anode weight	kg	-	1,3	1,6	1,9	2,3
Length of magnesium anodes (main / additional)	mm	-	790	950	1150	950

SERIES BBT



Specification	Units of measurement	Nominal volumes/ Article				
		3000	4000	5000	7000	10000
		BBT0003000PD	BBT0004000PD	BBT0005000PD	BBT0007000PD	BBT00010000PD
Connection pipes / Drain pipe h1	"/ mm	1/371	1/ 424	1/430	1/430	1/430
Connection pipes h2	"/ mm	2/496	2 / 505	3/535	3/535	3/540
Temperature sensor sleeve h2	"/ mm	3/4 / 496	3/4 / 505	3/4 / 535	3/4 / 535	3/4 / 540
Connection pipes h3	"/ mm	6/4 / 916	6/4 / 870	6/4 / 1095	6/4 / 1205	6/4 / 1695
Temperature sensor sleeve h4	"/ mm	3/4 / 1166	3/4 / 1200	3/4 / 1505	3/4 / 1930	3/4 / 2705
Connection pipes h5	"/ mm	2/1416	2 / 1895	3/ 2055	3/2955	3/4455
Connection pipes h6	"/ mm	6/4 / 1466	6/4 / 1540	6/4 / 1915	6/4 / 2245	6/4 / 3715
Temperature sensor sleeve h7	"/ mm	3/4 / 1836	3/4 / 1895	3/4 / 2475	3/4 / 3375	3/4 / 4870
Inspection opening TU5 h8	"/ mm	420/676	420/715	420/715	420/715	420/715
Maximum operating pressure of the water heater P	MPa	0,6				
Height H	mm	2308	2379	2985	3885	5385
Diameter without insulation d	mm	1400	1600	1600	1600	1600
Diameter with insulation D	mm	1570	1770	1770	1770	1770
Volume V	l	2765	3734	5095	6885	9901
Weight M	kg	366	539	679	857	1156
Tilting radius R	mm	2791	2965	3470	4269	5668
Magnesium anode weight	kg	2,3	2,8	3,5	4,1	6
Length of magnesium anodes (main / additional)	mm	950	1150	1150	1150	1150

KHT HEAT TOWERS

Heat towers are specially designed for use with heat pumps. They are a combination of a buffer tank and a water heater in one housing, which ensures easy installation, savings on pipework and optimisation of boiler room space. THP series combines the functions of a buffer tank and an enamelled combination water heater. In THPH series, water heats for hot water supply through a high-speed heat exchanger made of AISI 316L stainless steel corrugated pipe.

Marking: KHT THP/THPH-X/Y-GP-PU



THPh - series

X - standard size of the upper HWS tank

Y - standard size of the lower central heating tank (CH)

GP - gray insulation color,

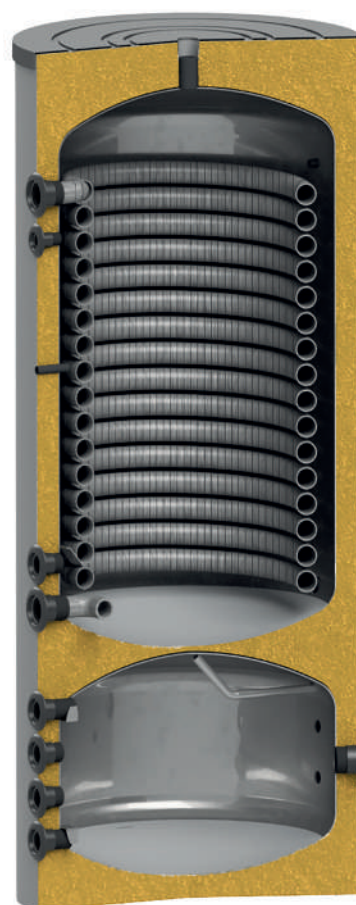
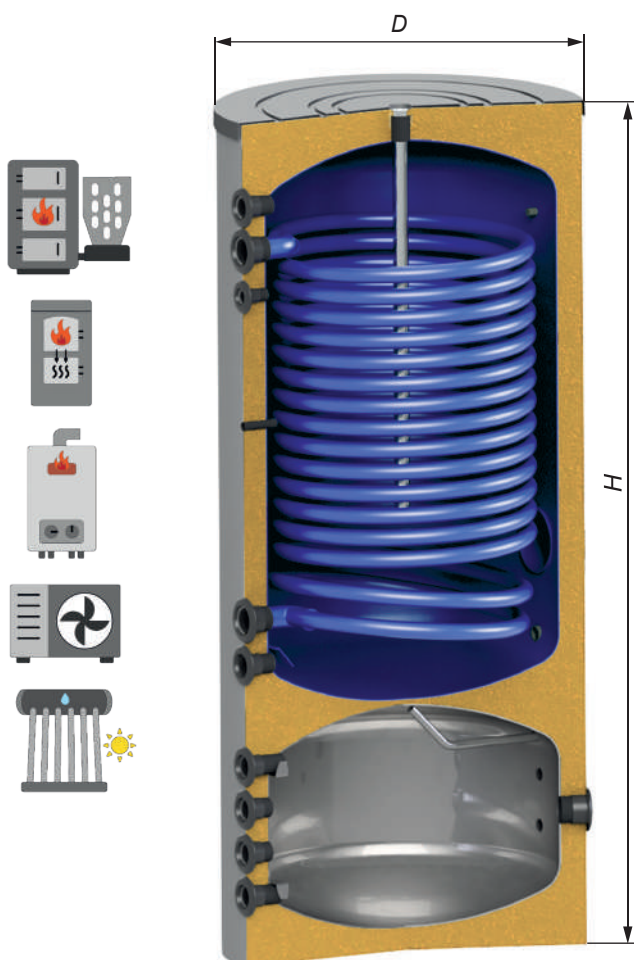
PU - rigid polyurethane foam insulation



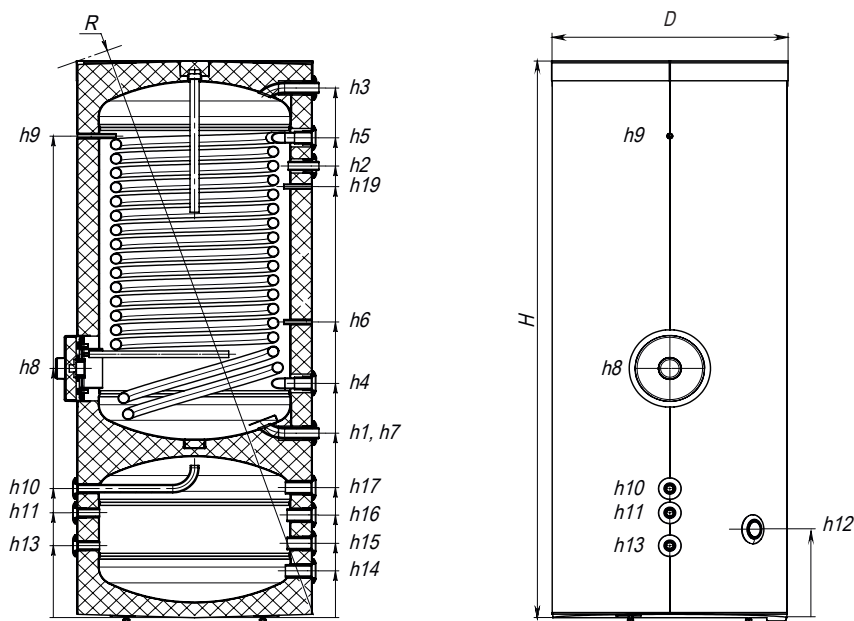
KHT THP-205/75-GP-PU

KHT THP-290/105-GP-PU

KHT THPH-290/105-GP-PU

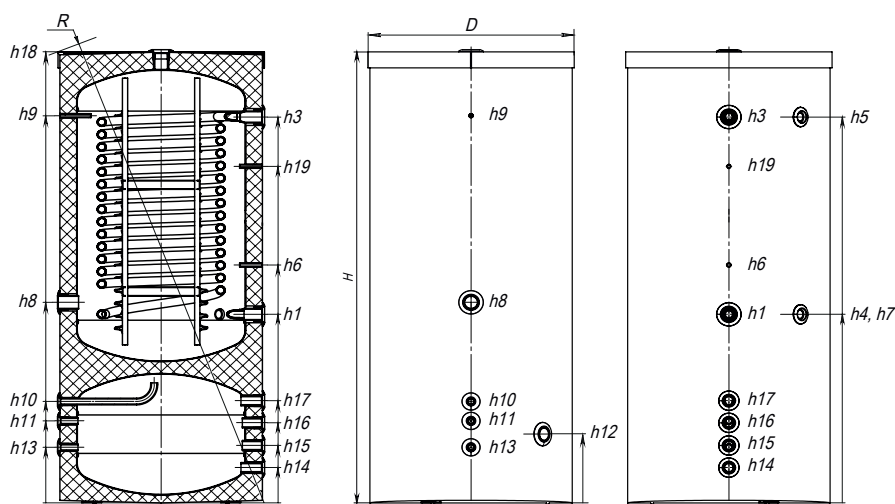


Enameled heat towers KHT THP-GP-PU



Specifications	Units of measurement	Nominal volumes/ Article	
		205/75	290/105
		THP20575GPPU	THP290105GPPU
Cold water supply pipe h1/ Drain pipe h7	" / mm	1 / 556	1 / 558
Recycling pipe h2	" / mm	3/4 / 1361	3/4 / 1363
Hot water withdrawal pipe h3	" / mm	1 / 1596	1 / 1598
Heat exchanger return pipe h4	" / mm	1/ 706	5/ 4/ 708
Heat exchanger supply pipe h5	" / mm	1 / 1446	5/ 4/ 1448
Temperature sensor sleeve h6	mm	891	893
Heating element pipe h8	" / mm	6/4 / 751	6/4 / 753
Temperature sensor sleeve h9	mm	1451	1453
Air vent pipe h10	" / mm	1/2 / 389	1/2 / 380
Temperature measuring sleeve h11	" / mm	1/2 / 316	1/2 / 307
Electric heating element pipe h12	" / mm	6/4 / 258	6/4 / 258
Temperature measuring sleeve h13	" / mm	1/2 / 217	1/2 / 208
Coolant connection h14	" / mm	1 / 141	1 / 132
Coolant connection h15	" / mm	1 / 224	1 / 215
Coolant connection h16	" / mm	1 / 309	1 / 300
Coolant connection h17	" / mm	1 / 392	1 / 383
Temperature sensor sleeve 19	mm	1299	1301
Heat exchanger volume	l	15,2	24
Heat exchanger area	m ²	2,4	3,2
Heat exchanger capacity (70/10/45°C)	kW	56	74
Constant heat exchanger performance	l/ h	1400	1800
Operating pressure of the heat exchanger	MPa	1	
Working pressure of the upper HWS tank /lower central heating (CH) tank	MPa	0,6/ 0,3	0,6/ 0,3
Total height H	mm	1677	1692
Diameter with insulation D/ Diameter without insulation d	mm	677/ 550	737/ 601
Total volume of the upper boiler	l	224	281
Nominal volume of the upper boiler /lower buffer tank	l	211/ 80	251/ 93
Internal surface area	m ²	4,6	5,6
Mass	kg	111	132
Tilting radius R	mm	1802	1838
Magnesium anode weight	kg	0,9	1,1
Length of magnesium anodes (main / additional)	mm	400/400	500/400
Energy efficiency class		A	A

Hygienic heat towers KHT THPh-290/105-GP-PU

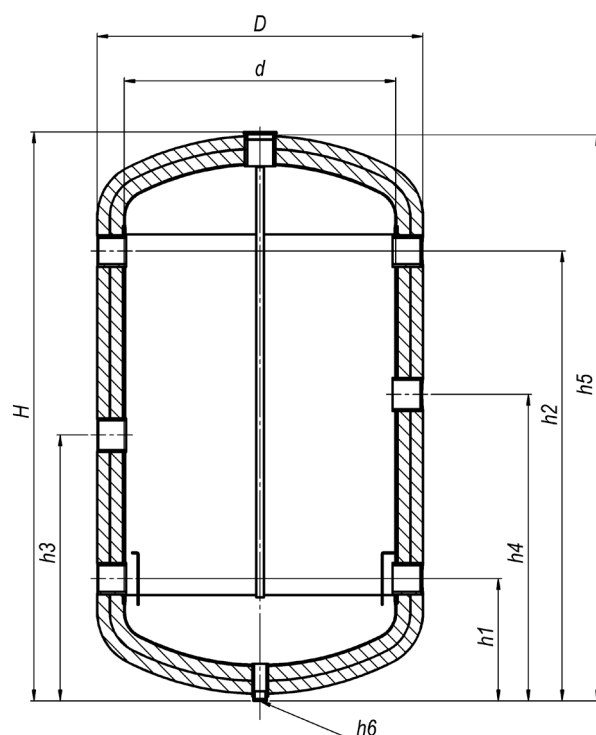
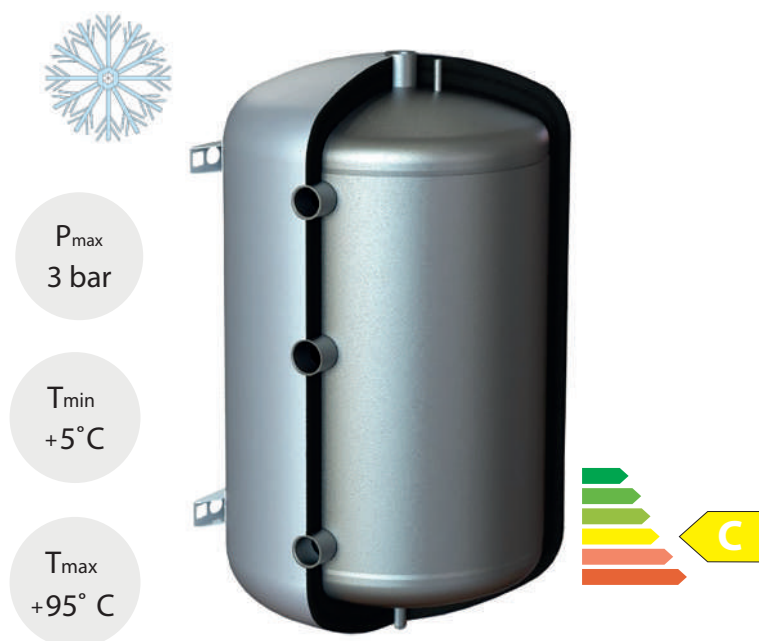


Specifications	Units of measurement	Nominal volumes/ Article
		290/105
		THPh290105GPPU
Cold water supply pipe h1	" / mm	5/4 / 708
Hot water withdrawal pipe h3	" / mm	5/4 / 1448
Heat exchanger return pipe h4/ Drain pipe h7	" / mm	5/4 / 1 / 708
Heat exchanger supply pipe h5	" / mm	1 / 1448
Temperature sensor sleeve h6	mm	893
Electric heating element pipe h8	" / mm	6/4 / 753
Temperature sensor sleeve h9	mm	1453
Air vent pipe h10	" / mm	1/2 / 381
Temperature measuring sleeve h11	" / mm	1/2 / 308
Electric heating element pipe h12	" / mm	6/4 / 258
Temperature measuring sleeve h13	" / mm	1/2 / 209
Coolant connection h14	" / mm	1 / 133
Coolant connection h15	" / mm	1 / 216
Coolant connection h16	" / mm	1 / 301
Coolant connection h17	" / mm	1 / 384
Connection, venting, h18	" / mm	5/4/1692
Temperature sensor sleeve 19	mm	1452
Heat exchanger volume	l	12,8
Heat exchanger area	m ²	4,0
Heat exchanger capacity (70/10/45°C)	kW	92
Constant heat exchanger performance	l/h	2200
Operating pressure of the heat exchanger	MPa	1
Working pressure of tanks	MPa	0,3
Total height H	mm	1718
Diameter with insulation D/ without insulation d	mm	739/ 603
Total volume of the upper boiler	l	283
Nominal volume of the upper boiler /lower buffer tank	l	270/ 92
Mass	kg	81
Tilting radius R	mm	1838
Nominal pipe diameter	DN	25
Heating element length	mm	550
Energy efficiency class		A

KS series cold storage tanks are designed to accumulate the coolant at low temperatures in refrigeration and air conditioning systems as buffer elements of the system. The insulation is made of heat-insulating material based on synthetic rubber foam.

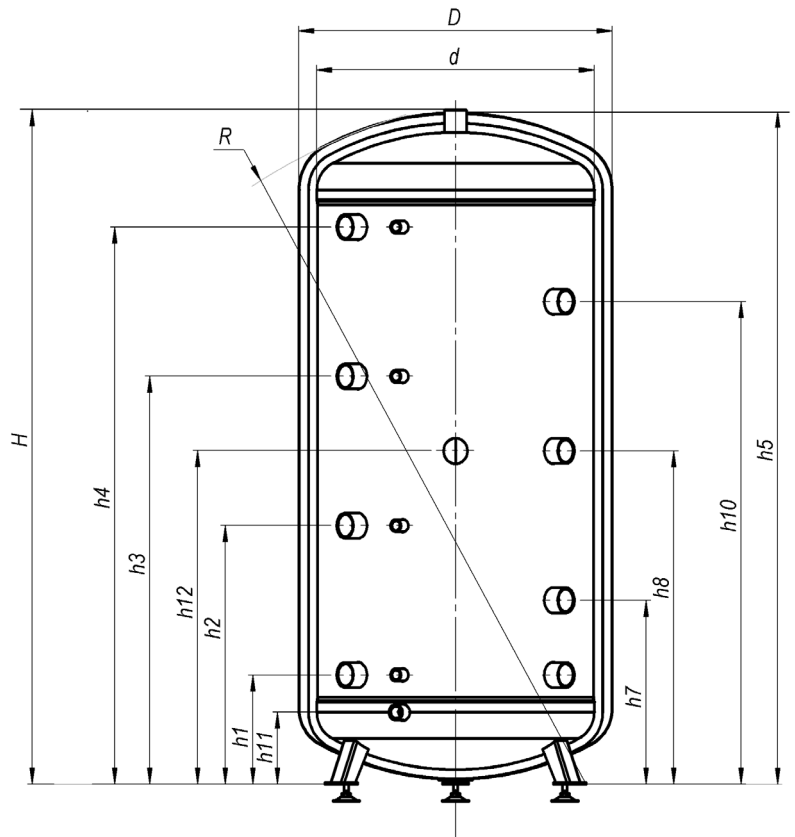
Marking: KHT KS-XY-V-GP-KPU

KS - series
XY - number of upper and lower heat exchangers
V - standard size
GP-KPU - foamed synthetic rubber



Specifications	Units of measurement	Nominal volumes/ Article	
		100	
		KS000100GPKPU	
Connection pipes h1	" / mm	5/4 / 187	
Connection pipes h2	" / mm	5/4 / 687	
Heating element pipe h3	" / mm	6/4 / 406	
Heating element pipe h4	" / mm	6/4 / 468	
Connection pipes/ venting h5	" / mm	5/4 / 867	
Drain pipe h6	" / mm	1/2 / 0	
Working pressure	MPa	0,3	
Height H	mm	869	
Diameter without insulation d	mm	430	
Diameter with insulation D	mm	510	
Nominal volume	l	100	
Mass	kg	21	
Tilting radius R	mm	1008	
Energy efficiency class		C	

KHT KS cold storage tanks



Specifications	Units of measurement	Nominal volumes/ Article							
		200	300	400	500	800	1000	1500	2000
		KS000200GPKPU	KS000300GPKPU	KS000400GPKPU	KS000500GPKPU	KS000800GPKPU	KS001000GPKPU	KS001500GPKPU	KS002000GPKPU
Connection pipes h1	" / mm	6/4 / 204	6/4 / 222	6/4 / 227	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 380
Connection pipes h2	" / mm	6/4 / 507	6/4 / 525	6/4 / 610	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 843
Connection pipes h3	" / mm	6/4 / 811	6/4 / 829	6/4 / 994	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1307
Connection pipes h4	" / mm	6/4 / 1114	6/4 / 1132	6/4 / 1377	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1770
Temperature sensor sleeve	"	1/2							
Connection pipes/ venting h5	" / mm	5/4 / 1333	5/4 / 1369	5/4 / 1619	5/4 / 1886	5/4 / 1691	5/4 / 1941	1990	5/4 / 2147
Connection pipes h7	" / mm	6/4 / 356	6/4 / 374	6/4 / 419	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 612
Connection pipes h8	" / mm	6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1075
Connection pipes h10	" / mm	6/4 / 962	6/4 / 980	6/4 / 1185	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1558
Drain pipe h11	" / mm	3/4 / 128	3/4 / 146	3/4 / 146	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 294
Heating element pipe h12		6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 1190	6/4 / 1235
Maximum working pressure of the tank	MPa	0,3							
Total height H	mm	1335	1371	1621	1888	1693	1943	1992	2149
Diameter without insulation d/ with insulation D	mm	502/ 582	603/ 683	603/ 683	651/ 731	790/ 870	790/ 870	1000/ 1080	1196/ 1276
Nominal volume	l	232	338	408	555	722	843	1361	1979
Mass	kg	38	46	53	65	73	81	123	177
Tilting radius R	mm	1458	1532	1760	2025	1904	2129	2266	2500
Energy efficiency class		C	C	C	C	C	C	C	C

KHT HPTH BUFFER TANKS TO THE HEAT PUMP

HPTH series heat and cold storage tanks are designed to work with a heat pump. The insulation is made of solid polyurethane foam and allows for both heat and cold operation in the temperature range from 6°C to 95°C.

Marking: KHT HPTH-V-WP-PU
KHT HPTH-3-V-WP-PU



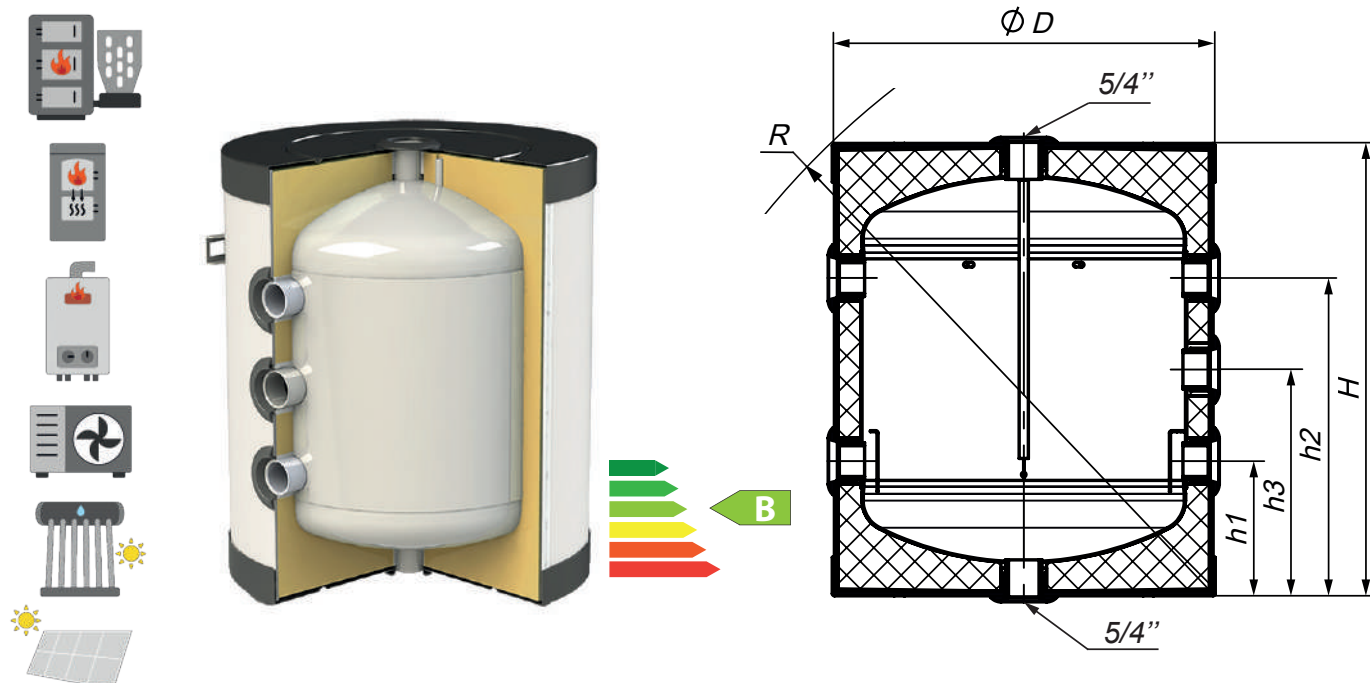
HPTH - series

3 - additional third socket for electric heater

V - standard size

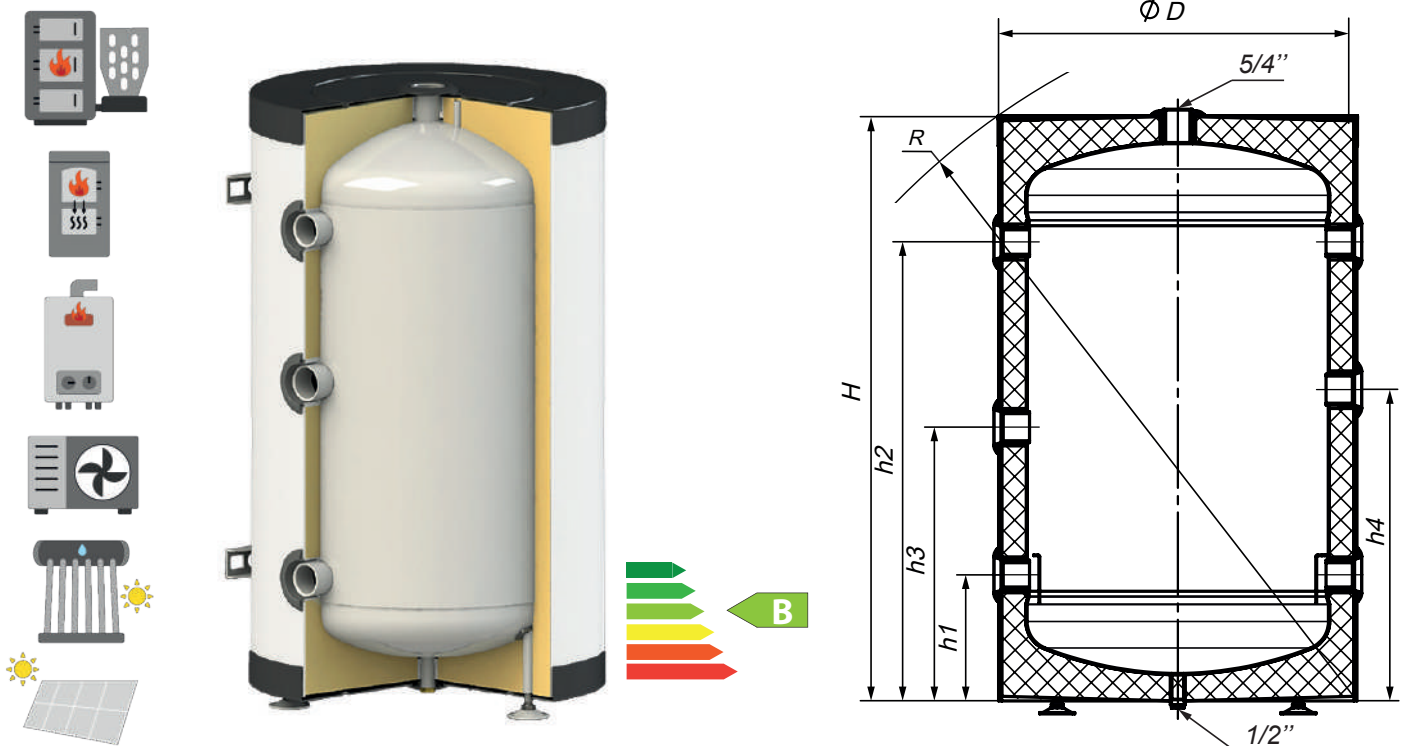
WP - white insulation color,

PU - solid polyurethane foam insulation



Specifications	Units of measurement	Nominal volumes/ Article
		60
		HPTH360WPPU
Connection pipes h1	" / mm	5/4 / 181
Connection pipes h2	" / mm	5/4 / 421
Heating element pipe h3	" / mm	6/4 / 301
Upper connection	"	5/4
Lower connection	"	5/4
Working pressure	MPa	0,5
Total height H	mm	609
Diameter with insulation D	mm	505
Volume V	l	63
Mass	kg	15
Tilting radius R	mm	784
Heating element length	mm	450
Energy efficiency class		B

KHT HPTH-3-WP-PU



Specifications	Units of measurement	Nominal volumes/ Article		
		100	120	150
		HPTH3100WPPU	HPTH3120WPPU	HPTH3150WPPU
Connection pipes h1	" / mm	5/4 / 187	5/4 / 187	5/4 / 220
Connection pipes h2	" / mm	5/4 / 687	5/4 / 822	5/4 / 770
Heating element pipe h3	" / mm	6/4 / 406	6/4 / 474	6/4 / 464
Heating element pipe h4	" / mm	6/4 / 468	6/4 / 536	6/4 / 526
Upper connection	"	5/4	5/4	5/4
Lower connection	"	1/2	1/2	1/2
Working pressure	MPa		0,5	
Total height H	mm	868	1006	990
Diameter with insulation D	mm	505	505	594
Volume V	l	101	120	158
Mass	kg	21	23	35
Tilting radius R	mm	997	1117	1134
Heating element length	mm	450	450	500
Energy efficiency class		B	B	B

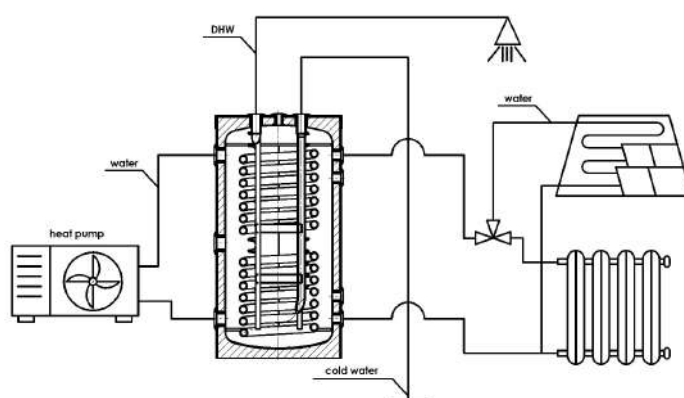
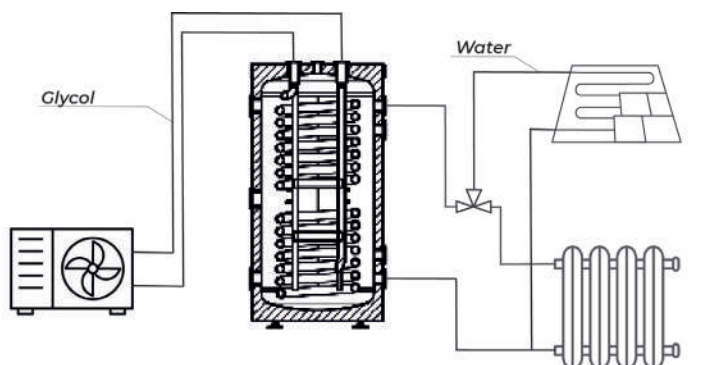
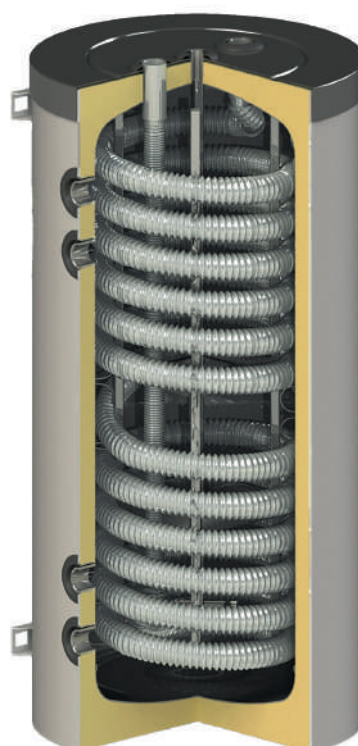
HPhygienic series buffer tanks efficiently heat domestic hot water in a flow-through mode, using the heat energy stored in the heating system. The heat is transferred via an integrated heat exchanger with a large surface area, which allows the water to be heated efficiently and quickly only when it is consumed. This makes them ideal for low-temperature heating systems, providing energy savings.

HPhygienic buffer tanks can also be used to separate systems, such as glycol-water, or to connect two heat sources operating at different operating pressures. The heat exchanger, made of corrugated stainless steel pipe AISI-316L, provides hygienic hot water preparation that prevents the development of Legionella bacteria, eliminating the need for high-temperature heating. HPhygienic tanks do not require annual maintenance, including the replacement of the magnesium anode, and their service life is longer than enamelled water heaters.

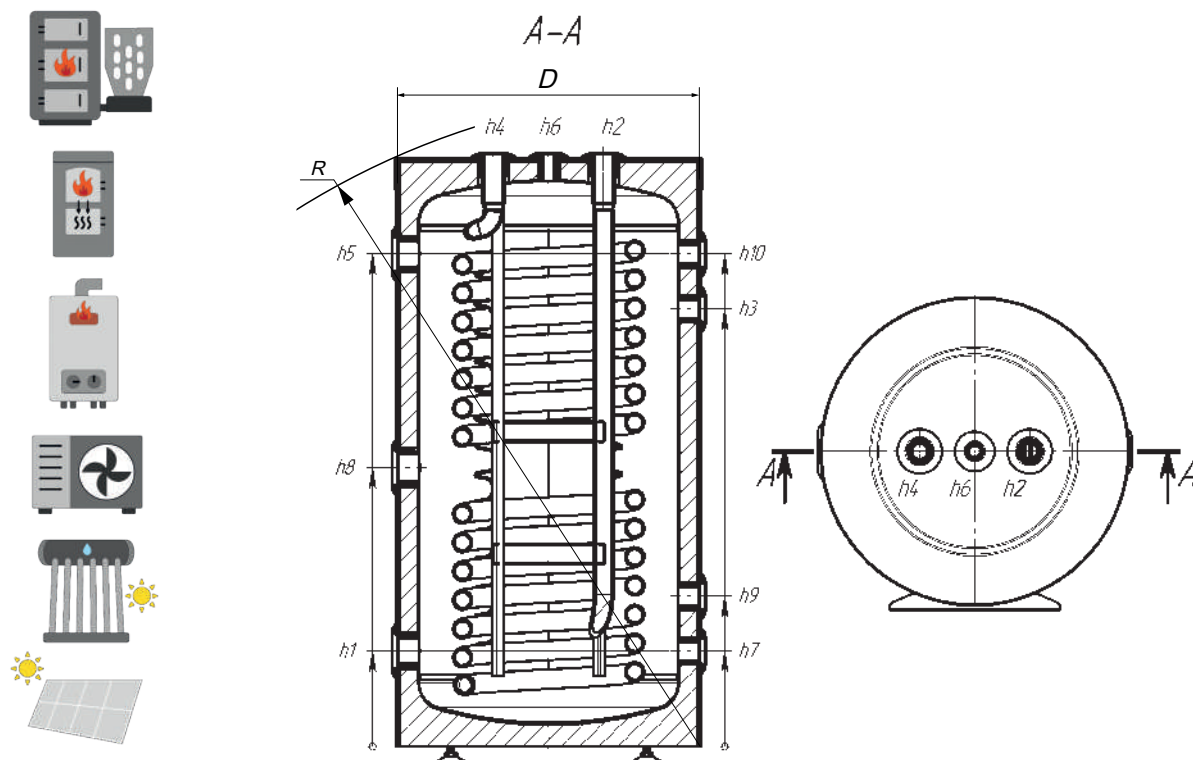


Marking: KHT HPT_h-OX-V-GP-PU
KHT HPh-XY-V-GP-PU
KHT HPh-XY-V-GP-PS

HPT_h/HPh - series
 X - number of stainless HE
 Y - number of steel HE
 V - standard size
 GP - gray insulation color
 PU - solid polyurethane foam insulation
 PS - removable insulation.



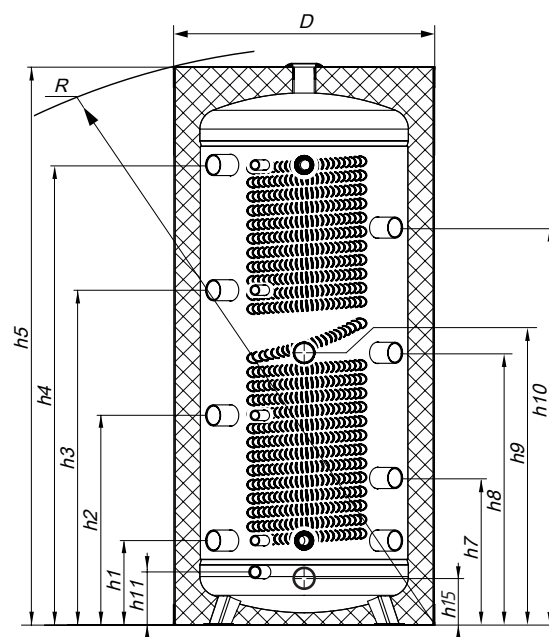
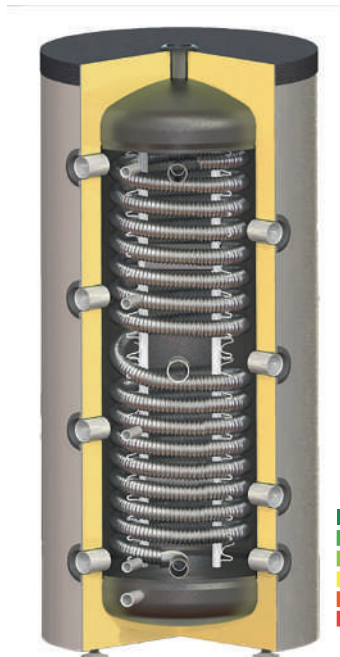
SERIES KHT HPTh-01-120-GP-PU to the heat pump



Specifications	Units of measurement	Nominal volumes/ Article
		120
		HPTh010120GPPU
Cold water supply pipe h1	" / mm	5/4 / 193
Heat exchanger return pipe h2	" / mm	5/4 / 1057
Recycling pipe h3	mm	5/4 / 753
Heat exchanger supply pipe h4	" / mm	5/4 / 1057
Hot water withdrawal pipe h5	" / mm	1 / 843
Air vent pipe h6	" / mm	1/2 / 1057
Drain pipe h7	" / mm	1 / 193
Heating element pipe h8	mm	6/4 / 493
Connection pipes h9	mm	1 / 283
Connection pipe/ Hot water withdrawal pipe h10	mm	1 / 843
Heat exchanger volume	l	13,8
Heat exchanger area	m ²	3,5
Heat exchanger capacity (70/10/45°C)	kW	81
Constant heat exchanger performance	l/ h	1990
Operating pressure of the heat exchangers	MPa	1
Maximum working pressure of the tank	MPa	0,5
Total height H	mm	1057
Diameter without insulation d/ with insulation D	mm	430/ 505
Total volume	l	124
Nominal volume	l	110
Mass	kg	32
Tilting radius R	mm	1162
Heating element length	mm	450
Energy efficiency class		A

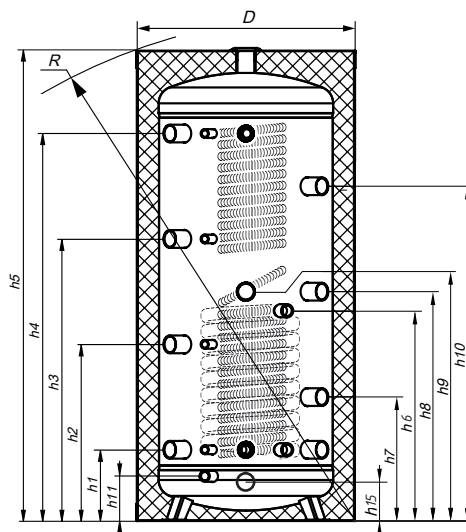
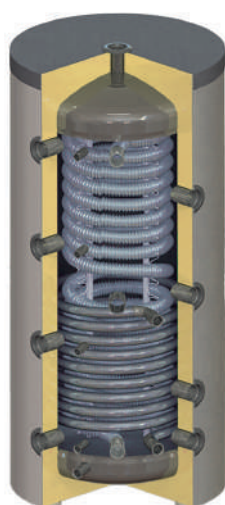
SERIES KHT HPh-10-GP-PU

Buffer tanks with heat exchanger made of AISI 316L stainless steel



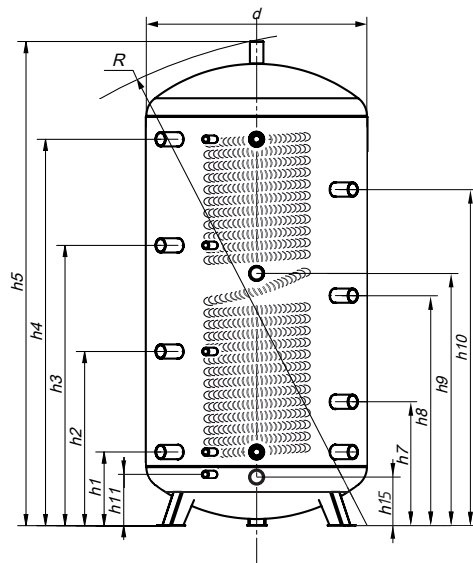
Specifications	Units of measurement	Nominal volumes/ Article		
		200	300	400
		HPhI00200GPPU	HPhI00300GPPU	HPhI00400GPPU
Connection pipes h1	" / mm	6/4 / 212	6/4 / 231	6/4 / 236
Connection pipes h2	" / mm	6/4 / 516	6/4 / 534	6/4 / 619
Connection pipes h3	" / mm	6/4 / 819	6/4 / 837	6/4 / 1002
Connection pipes h4	" / mm	6/4 / 1122	6/4 / 1141	6/4 / 1386
Temperature sensor sleeve	"	1/2		
Connection pipes/ venting h5	" / mm	5/4 / 1360	5/4 / 1396	5/4 / 1646
DHW heat exchanger hot water withdrawal pipe h4	" / mm	1 / 1122	1 / 1141	1 / 1386
DHW heat exchanger cold water supply pipe h1	" / mm	1 / 212	1 / 231	1 / 236
Connection pipes h7	" / mm	6/4 / 364	6/4 / 382	6/4 / 427
Connection pipes h8	" / mm	6/4 / 667	6/4 / 686	6/4 / 811
Connection of the upper electric heating element h9	" / mm	6/4 / 667	6/4 / 686	6/4 / 886
Connection pipes h10	" / mm	6/4 / 971	6/4 / 989	6/4 / 1194
Drain pipe h11	" / mm	3/4 / 136	3/4 / 155	3/4 / 155
Connection of the lower electric heating element h15	" / mm	6/4 / 119	6/4 / 137	6/4 / 137
Operating pressure of the heat exchangers	MPa	1		
DHW heat exchanger area	m ²	3,5	3,5	4
DHW heat exchanger volume	l	11	11	13
Maximum working pressure of the tank	MPa	0,5		
Total height H	mm	1369	1405	1655
Diameter without insulation d/ with insulation D	mm	502/ 634	603/ 735	603/ 735
Total volume	l	236	344	419
Nominal volume	l	224	332	405
Mass	kg	55	64	74
Tilting radius R	mm	1501	1576	1802
Nominal pipe diameter	DN	25		
Surface area	m ²	3,5	3,5	4
Heating element length	mm	500	600	600
Energy efficiency class		A	A	A

SERIES KHT HPh-11-GP-PU - Buffer tanks with AISI 316L stainless steel heat exchanger and carbon steel bottom heat exchanger



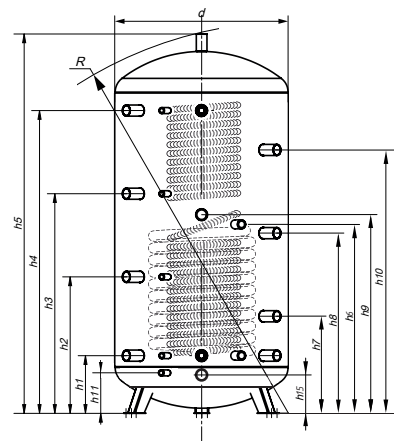
Specifications	Units of measurement	Nominal volumes/ Article		
		200	300	400
		HPh110200GPPU	HPh110300GPPU	HPh110400GPPU
Connection pipes h1	" / mm	6/4 / 212	6/4 / 231	6/4 / 236
Connection pipes h2	" / mm	6/4 / 516	6/4 / 534	6/4 / 619
Connection pipes h3	" / mm	6/4 / 819	6/4 / 837	6/4 / 1002
Connection pipes h4	" / mm	6/4 / 1122	6/4 / 1141	6/4 / 1386
Temperature sensor sleeve	"	1/2		
Connection pipes/ venting h5	" / mm	5/4 / 1360	5/4 / 1396	5/4 / 1646
Lower heat exchanger return line branch pipe h1	" / mm	1 / 212	1 / 231	1 / 236
Lower heat exchanger supply line branch pipe h6	" / mm	1 / 612	1 / 631	1 / 836
DHW heat exchanger hot water withdrawal pipe h4	" / mm	1 / 1122	1 / 1141	1 / 1386
DHW heat exchanger cold water supply pipe h1	" / mm	1 / 212	1 / 231	1 / 236
Connection pipes h7	" / mm	6/4 / 364	6/4 / 382	6/4 / 427
Connection pipes h8	" / mm	6/4 / 667	6/4 / 686	6/4 / 811
Connection of the upper electric heating element h9	" / mm	6/4 / 667	6/4 / 686	6/4 / 886
Connection pipes h10	" / mm	6/4 / 971	6/4 / 989	6/4 / 1194
Drain pipe h11	" / mm	3/4 / 136	3/4 / 155	3/4 / 155
Connection of the lower electric heating element h15	" / mm	6/4 / 119	6/4 / 137	6/4 / 137
Operating pressure of the heat exchangers	MPa	1		
Area of the lower heat exchanger	m ²	1,2	1,2	1,8
Volume of the lower heat exchanger	l	7,4	7,4	11,2
DHW heat exchanger area	m ²	3,5	3,5	4
DHW heat exchanger volume	l	11	11	13
Maximum working pressure of the tank	MPa	0,5		
Total height H	mm	1369	1405	1655
Diameter without insulation d/ with insulation D	mm	502/ 634	603/ 735	603/ 735
Total volume	l	236	344	419
Nominal volume	l	215	323	391
Mass	kg	71	81	98
Tilting radius R	mm	1501	1576	1802
Nominal pipe diameter	DN	25		
Surface area	m ²	3,5	3,5	4
Heating element length	mm	500	600	600
Energy efficiency class		A	A	A

SERIES KHT HPh-10-GP-PS - Buffer tanks with heat exchanger made of AISI 316L stainless steel in removable insulation



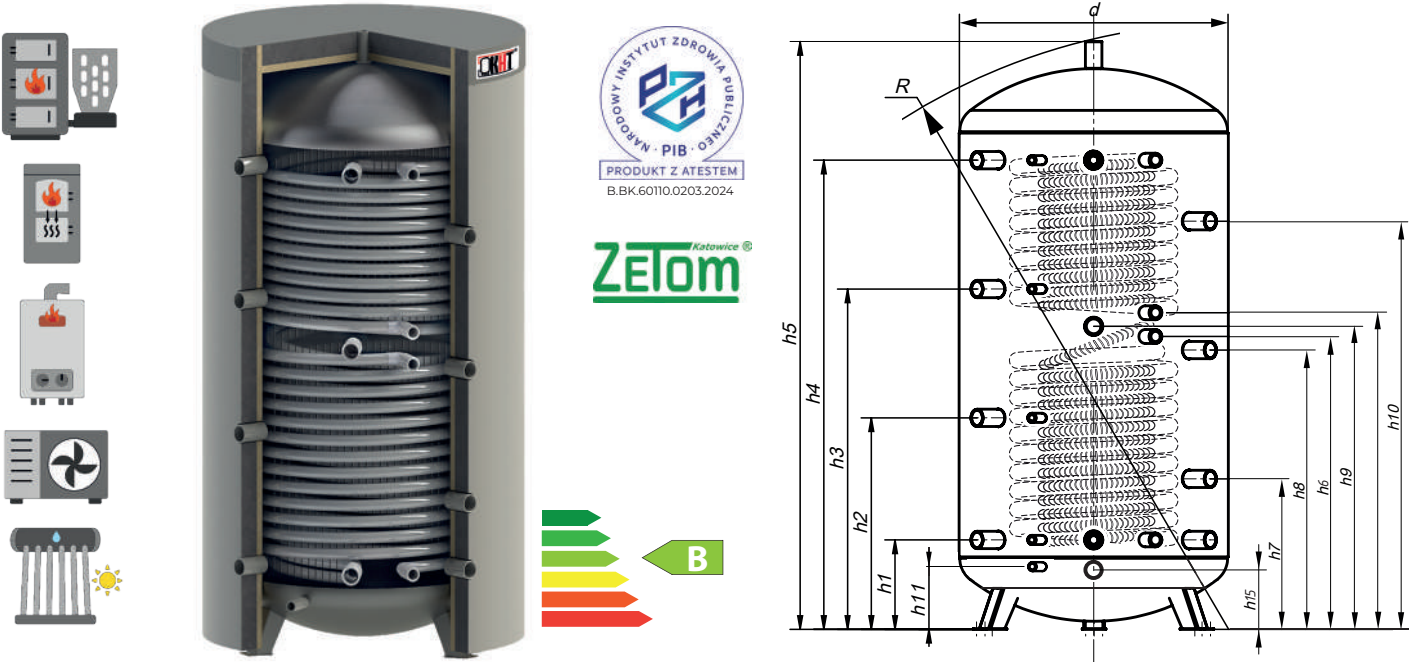
Specifications	Units of measurement	Nominal volumes/ Article							
		200	300	400	500	800	1000	1500	2000
		HPh100200GPPS	HPh100300GPPS	HPh100400GPPS	HPh100500GPPS	HPh100800GPPS	HPh101000GPPS	HPh101500GPPS	HPh102000GPPS
Connection pipes h1	" / mm	6/4 / 204	6/4 / 222	6/4 / 227	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 385
Connection pipes h2	" / mm	6/4 / 507	6/4 / 525	6/4 / 610	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 848
Connection pipes h3	" / mm	6/4 / 811	6/4 / 829	6/4 / 994	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1312
Connection pipes h4	" / mm	6/4 / 1114	6/4 / 1132	6/4 / 1377	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1775
Temperature sensor sleeve	"	1/2							
Connection pipes/ venting h5	" / mm	5/4 / 1378	5/4 / 1414	5/4 / 1664	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2206
DHW heat exchanger hot water withdrawal pipe h4	" / mm	1 / 1114	1 / 1132	1 / 1377	5/4 / 1632	5/4 / 1422	5/4 / 1667	5/4 / 1685	5/4 / 1775
DHW heat exchanger cold water supply pipe h1	" / mm	1 / 204	1 / 222	1 / 227	5/4 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 385
Connection pipes h7	" / mm	6/4 / 356	6/4 / 374	6/4 / 419	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 617
Connection pipes h8	" / mm	6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1080
Connection of the upper electric heating element h9	" / mm	6/4 / 659	6/4 / 677	6/4 / 877	6/4 / 1037	6/4 / 922	6/4 / 1047	6/4 / 1115	6/4 / 1205
Connection pipes h10	" / mm	6/4 / 962	6/4 / 980	6/4 / 1185	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1543
Drain pipe h11	" / mm	3/4 / 128	3/4 / 146	3/4 / 147	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 299
Connection of the lower electric heating element h15	" / mm	6/4 / 119	6/4 / 137	6/4 / 137	6/4 / 152	6/4 / 182	6/4 / 182	6/4 / 199	6/4 / 290
Operating pressure of the heat exchangers	MPa	1	1	1	1	0,8	0,8	0,8	0,8
DHW heat exchanger area	m ²	3,5	3,5	4	5	6	7,8	8	8
DHW heat exchanger volume	l	11	11	13	15,8	23	30	30,7	30,7
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1380	1416	1666	1933	1738	1988	2029	2217
Diameter without insulation d	mm	502	603	603	651	790	790	997	1196
Diameter with insulation D	mm	674	775	775	823	962	962	1169	1368
Total volume	l	236	344	419	566	733	850	1361	2113
Nominal volume	l	224	332	405	545	704	819	1329	2081
Mass	kg	53	62	70	85	95	107	149	203
Tilting radius R	mm	1409	1455	1699	1968	1791	2034	2099	2199
Nominal pipe diameter	DN	25	25	25	32	32	32	32	32
Surface area	m ²	3,5	3,5	4	5	6	7,8	8	8
Heating element length	mm	500	600	600	650	790	790	995	1195
Energy efficiency class		B	B	B	B	B	B	C	C

SERIES KHT HPh-11-GP-PS - Buffer tanks with AISI 316L stainless steel heat exchanger and carbon steel bottom heat exchanger in removable insulation

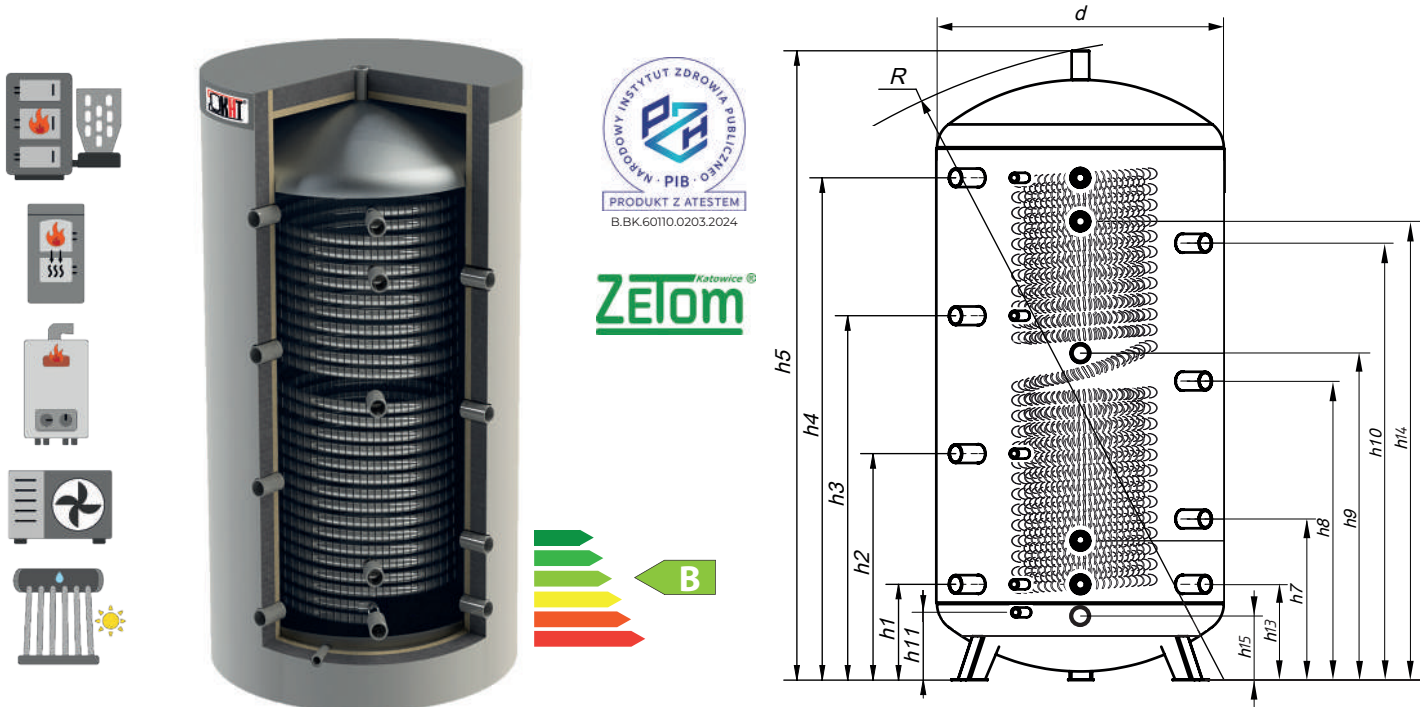


Specifications	Units of measurement	Nominal volumes/ Article							
		200	300	400	500	800	1000	1500	2000
		HPh110200GPPS	HPh110300GPPS	HPh110400GPPS	HPh110500GPPS	HPh110800GPPS	HPh111000GPPS	HPh111500GPPS	HPh112000GPPS
Connection pipes h1	" / mm	6/4 / 204	6/4 / 222	6/4 / 227	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 385
Connection pipes h2	" / mm	6/4 / 507	6/4 / 525	6/4 / 610	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 848
Connection pipes h3	" / mm	6/4 / 811	6/4 / 829	6/4 / 994	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1312
Connection pipes h4	" / mm	6/4 / 1114	6/4 / 1132	6/4 / 1377	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1775
Temperature sensor sleeve	"	1/2							
Connection pipes/ venting h5	" / mm	5/4 / 1378	5/4 / 1414	5/4 / 1664	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2206
Lower heat exchanger return line branch pipe h1	" / mm	1 / 204	1 / 222	1 / 227	1 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 385
Lower heat exchanger supply line branch pipe h6	" / mm	1 / 604	1 / 622	1 / 827	1 / 842	5/4 / 872	5/4 / 877	5/4 / 1045	5/4 / 1135
DHW heat exchanger hot water withdrawal pipe h4	" / mm	1 / 1114	1 / 1132	1 / 1377	5/4 / 1632	5/4 / 1422	5/4 / 1667	5/4 / 1685	5/4 / 1775
DHW heat exchanger cold water supply pipe h1	" / mm	1 / 204	1 / 222	1 / 227	5/4 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 385
Connection pipes h7	" / mm	6/4 / 356	6/4 / 374	6/4 / 419	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 617
Connection pipes h8	" / mm	6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1080
Connection of the upper electric heating element h9	" / mm	6/4 / 659	6/4 / 677	6/4 / 877	6/4 / 1037	6/4 / 922	6/4 / 1047	6/4 / 1115	6/4 / 1205
Connection pipes h10	" / mm	6/4 / 962	6/4 / 980	6/4 / 1185	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1543
Drain pipe h11	" / mm	3/4 / 128	3/4 / 146	3/4 / 147	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 299
Connection of the lower electric heating element h15	" / mm	6/4 / 1119	6/4 / 137	6/4 / 137	6/4 / 152	6/4 / 182	6/4 / 182	6/4 / 199	6/4 / 290
Operating pressure of the heat exchangers	MPa	1	1	1	1	0,8	0,8	0,8	0,8
DHW operating pressure of the heat exchanger	MPa	1							
Area of the lower heat exchanger	m ²	1,2	1,2	1,8	1,8	3,2	3,2	4,7	4,7
Volume of the lower heat exchanger	l	7,4	7,4	11,2	11,2	29,5	29,5	42	42
DHW heat exchanger area	m ²	3,5	3,5	4	5	6	7,8	8	8
DHW heat exchanger volume	l	11	11	13	16	23	30	30,7	30,7
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1380	1416	1666	1933	1738	1988	2029	2217
Diameter without insulation d/ with insulation D	mm	502/ 674	603/775	603/ 775	651/ 823	790/ 962	790/ 962	997/ 1169	1196/ 1368
Total volume	l	236	344	419	566	733	850	1361	2113
Nominal volume	l	215	323	391	531	675	785	1279	2031
Mass	kg	70	78	95	109	144	159	233	269
Tilting radius R	mm	1409	1455	1699	1968	1791	2034	2099	2199
Nominal pipe diameter	DN	25	25	25	32	32	32	32	32
Surface area	m ²	3,5	3,5	4	5	6	7,8	8	8
Heating element length	mm	500	600	600	650	790	790	995	1195
Energy efficiency class		B	B	B	B	B	B	C	C

SERIES KHT HPh-12-GP-PS



SERIES KHT HPh-20-GP-PS



SERIES KHT HPh-12-GP-PS

Buffer tanks with heat exchanger made of AISI 316L stainless steel and lower and upper heat exchangers made of carbon steel in removable insulation

Specifications	Units of measurement	Nominal volumes/ Article				
		500	800	1000	1500	2000
		HPh120500GPPS	HPh120800GPPS	HPh121000GPPS	HPh121500GPPS	HPh122000GPPS
Connection pipes h1	" / mm	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 385
Connection pipes h2	" / mm	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 848
Connection pipes h3	" / mm	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1312
Connection pipes h4	" / mm	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1775
Temperature sensor sleeve	"	1/2				
Connection pipes/ venting h5	" / mm	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2206
Upper heat exchanger return line branch pipe h12	" / mm	1 / 1232	5/4 / 972	5/4 / 1217	5/4 / 1185	5/4 / 1275
Upper heat exchanger supply line branch pipe h4	" / mm	5/4 / 1632	5/4 / 1422	5/4 / 1667	5/4 / 1685	5/4 / 1775
Lower heat exchanger return line branch pipe h1	" / mm	5/4 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 385
Lower heat exchanger supply line branch pipe h6	" / mm	1 / 842	5/4 / 872	5/4 / 877	5/4 / 1045	5/4 / 1135
DHW heat exchanger hot water withdrawal pipe h4	" / mm	5/4 / 1632	5/4 / 1422	5/4 / 1667	5/4 / 1685	5/4 / 1775
DHW heat exchanger cold water supply pipe h1	" / mm	5/4 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 385
Connection pipes h7	" / mm	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 617
Connection pipes h8	" / mm	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1080
Connection of the upper electric heating element h9	" / mm	6/4 / 1037	6/4 / 922	6/4 / 1047	6/4 / 1115	6/4 / 1205
Connection pipes h10	" / mm	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1498
Drain pipe h11	" / mm	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 254
Connection of the lower electric heating element h15	" / mm	6/4 / 152	6/4 / 182	6/4 / 182	6/4 / 199	6/4 / 290
Working pressure of the lower and upper heat exchanger	MPa	1	0,8	0,8	0,8	0,8
DHW heat exchanger operating pressure	MPa	1				
Upper heat exchanger area	m²	1,2	2,4	2,4	3,2	3,2
Volume of the upper heat exchanger	l	8	22	22	29,5	29,5
Area of the lower heat exchanger	m²	1,8	3,2	3,2	4,7	4,7
Volume of the lower heat exchanger	l	11,2	29,5	29,5	42	42
DHW heat exchanger area	m²	5	6	7,8	8	8
DHW heat exchanger volume	l	15,8	23	30	30,7	30,7
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1933	1738	1988	2029	2217
Diameter without insulation d/ with insulation D	mm	651/ 823	790/ 962	790/ 962	997/ 1169	1196/ 1368
Total volume	l	566	733	850	1361	2113
Nominal volume	l	520	650	760	1245	1997
Mass	kg	139	173	188	271	351
Tilting radius R	mm	1968	1791	2034	2099	2199
Nominal pipe diameter	DN	32				
Surface area	m²	5	6	7,8	8	8
Heating element length	mm	650	790	790	995	1195
Energy efficiency class		B	B	B	C	C

SERIES KHT HPh-20-GP-PS

Buffer tanks with double heat exchanger made of AISI 316L stainless steel in removable insulation

Specifications	Units of measurement	Nominal volumes/ Article				
		500	800	1000	1500	2000
		HPh200500GPPS	HPh200800GPPS	HPh201000GPPS	HPh201500GPPS	HPh202000GPPS
Connection pipes h1	" / mm	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 385
Connection pipes h2	" / mm	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 848
Connection pipes h3	" / mm	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1312
Connection pipes h4	" / mm	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1775
Temperature sensor sleeve	"	1/2				
Connection pipes/ venting h5	" / mm	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2206
DHW heat exchanger hot water withdrawal pipe h4	" / mm	5/4 / 1632	5/4 / 1422	5/4 / 1667	5/4 / 1685	5/4 / 1775
DHW heat exchanger cold water supply pipe h1	" / mm	5/4 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 385
HP heat exchanger hot water withdrawal pipe h14	" / mm	5/4 / 1512	5/4 / 1302	5/4 / 1547	5/4 / 1565	5/4 / 1655
HP heat exchanger cold water supply pipe h13	" / mm	5/4 / 362	5/4 / 392	5/4 / 397	5/4 / 415	5/4 / 505
Connection pipes h7	" / mm	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 617
Connection pipes h8	" / mm	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1080
Connection of the upper electric heating element h9	" / mm	6/4 / 1037	6/4 / 922	6/4 / 1047	6/4 / 1115	6/4 / 1205
Connection pipes h10	" / mm	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1543
Drain pipe h11	" / mm	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 299
Connection of the lower electric heating element h15	" / mm	6/4 / 152	6/4 / 182	6/4 / 182	6/4 / 199	6/4 / 290
Operating pressure of the heat exchangers	MPa	1	0,8	0,8	0,8	0,8
DHW heat exchanger area	m ²	5	6	7,8	8	8
DHW heat exchanger volume	l	16	23	30	30,7	30,7
HP heat exchanger area	m ²	5	6	7,8	8	8
HP heat exchanger volume	l	15,8	23	30	30,7	30,7
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1933	1738	1988	2029	2217
Diameter without insulation d/ with insulation D	mm	651/ 823	790/ 962	790/ 962	997/ 1169	1196/ 1368
Total volume	l	566	733	850	1361	2113
Nominal volume	l	525	685	788	1298	2050
Mass	kg	98	110	126	169	222
Tilting radius R	mm	1968	1791	2034	2099	2199
Nominal pipe diameter	DN	32				
Surface area	m ²	5	6	7,8	8	8
Heating element length	mm	650	790	790	995	1195
Energy efficiency class		B	B	B	C	C

The HPTU series buffer tanks efficiently heat domestic hot water in flow-through mode by using the thermal energy accumulated in the heating system. Heat is transferred via an integrated heat exchanger with a large surface area, which enables efficient and rapid water heating only at the moment of consumption. This makes them ideally suited for low-temperature heating systems, ensuring energy savings.

Additionally, HPTU buffer tanks can be used for system separation (e.g., glycol-water) or for connecting two heat sources operating at different working pressures.

The heat exchanger is made of corrugated stainless steel pipe (AISI 316L), ensuring hygienic domestic hot water preparation and eliminating the risk of Legionella bacteria development, thus removing the need for high-temperature disinfection. HPhygienic tanks require no annual maintenance, including magnesium anode replacement, and have a longer service life compared to enamel-coated water heaters.

Buffer tanks can optionally be equipped with high-efficiency block-type TU4 heat exchangers made of stainless steel. Depending on the model (version), the required number of heat exchangers with the appropriate placement is added to the buffer tank.

Marking: HPTU-XYZ-V-GP-PS



HPTU - series

X - number of upper heat exchangers

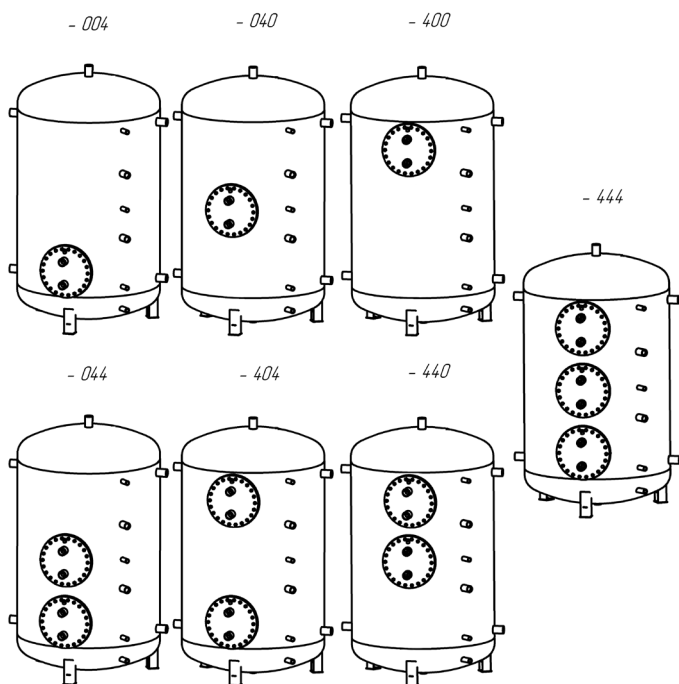
Y - model with a medium heat exchanger

Z - model with bottom heat exchanger

V - standard size

GP - gray insulation color

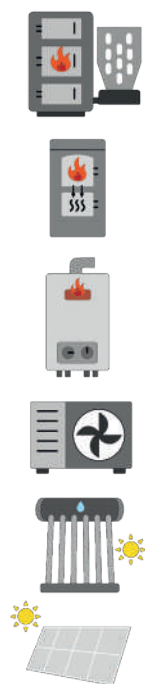
PS - removable insulation.



P_{max}
6 bar

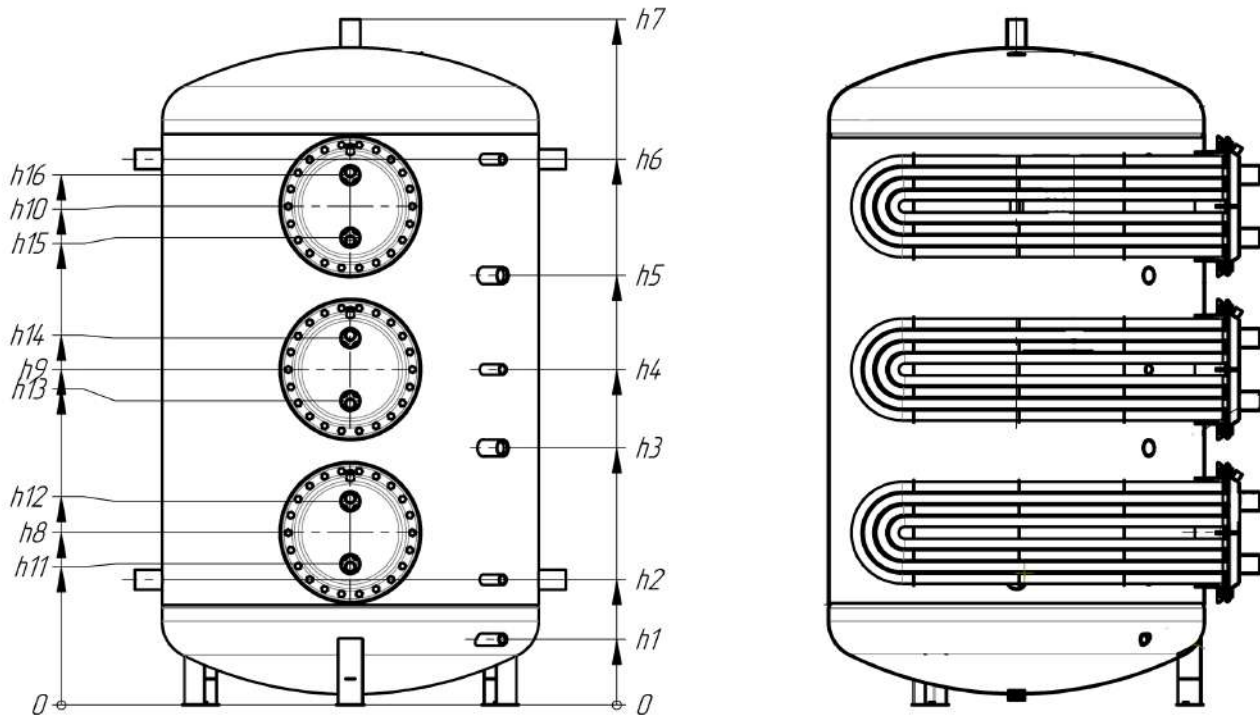
T_{max}
95° C

SERIES HPTU-004/044/444-GP-PS



Specification	Units of measurement	Nominal volumes/ Article				
		750	1000	1500	2000	2500
		HPTU0040750GPPS	HPTU0041000GPPS	HPTU0041500GPPS	HPTU0042000GPPS	HPTU0042500GPPS
		HPTU0440750GPPS	HPTU0441000GPPS	HPTU0441500GPPS	HPTU0442000GPPS	HPTU0442500GPPS
Connection pipes / Drain pipe h1	"/ mm	1 / 215	1 / 201	1 / 267	1 / 209	1 / 335
Connection pipes h2	"/ mm	6/4 / 336	6/4 / 326	2 / 392	2 / 399	2 / 460
Temperature sensor sleeve h2	"/ mm	3/4 / 336	3/4 / 326	3/4 / 392	3/4 / 399	3/4 / 460
Connection pipes h3	"/ mm	6/4 / 756	6/4 / 746	6/4 / 802	6/4 / 819	6/4 / 870
Temperature sensor sleeve h4	"/ mm	3/4 / 1031	3/4 / 996	3/4 / 1062	3/4 / 1069	3/4 / 1130
Connection pipes h5	"/ mm	6/4 / 1256	6/4 / 1246	6/4 / 1312	2 / 1319	2 / 1380
Connection pipes h6	"/ mm	6/4 / 1306	6/4 / 1246	6/4 / 1322	6/4 / 1319	6/4 / 1390
Temperature sensor sleeve h7	"/ mm	3/4 / 1676	3/4 / 1666	3/4 / 1732	3/4 / 1739	3/4 / 1800
Inspection opening TU4 h8	mm/ mm	340 / 486	340 / 476	340 / 542	340 / 549	340 / 610
Inspection opening TU4 h9	mm/ mm	340 / 1006	340 / 996	340 / 1062	340 / 1069	340 / 1130
Inspection opening TU4 h10	mm/ mm	340 / 1526	340 / 1516	340 / 1582	340 / 1589	340 / 1650
Maximum operating pressure of the water heater P	MPa	0.6				
Height H	mm	2025	2045	2135	2186	2242
Diameter without insulation d	mm	750	850	1000	1200	1300
Diameter with insulation D	mm	920	1028	1170	1370	1470
Volume V	l	760	988	1422	2046	2411
Weight M	kg	130	161	193	283	372
Tilting radius R	mm	2224	2276	2417	2580	2664
Maximum length of the TU4 block-type heat exchanger	mm	700	850	950	1090	1300

SERIES HPTU-004/044/444-GP-PS



Specification	Units of measurement	Nominal volumes/ Article				
		3000	4000	5000	7000	10000
		HPTU0043000GPPS	HPTU0044000GPPS	HPTU0045000GPPS	HPTU0047000GPPS	HPTU00410000GPPS
		HPTU0443000GPPS	HPTU0444000GPPS	HPTU0445000GPPS	HPTU0447000GPPS	HPTU04410000GPPS
		HPTU4443000GPPS	HPTU4444000GPPS	HPTU4445000GPPS	HPTU4447000GPPS	HPTU44410000GPPS
Connection pipes / Drain pipe h1	"/ mm	1 / 371	1 / 424	1 / 430	1 / 430	1 / 430
Connection pipes h2	"/ mm	2 / 496	2 / 505	3 / 535	3 / 535	3 / 540
Temperature sensor sleeve h2	"/ mm	3/4 / 496	3/4 / 505	3/4 / 535	3/4 / 535	3/4 / 540
Connection pipes h3	"/ mm	6/4 / 916	6/4 / 870	6/4 / 1095	6/4 / 1205	6/4 / 1695
Temperature sensor sleeve h4	"/ mm	3/4 / 1166	3/4 / 1200	3/4 / 1505	3/4 / 1930	3/4 / 2705
Connection pipes h5	"/ mm	2 / 1416	2 / 1895	3 / 2055	3 / 2955	3 / 4455
Connection pipes h6	"/ mm	6/4 / 1466	6/4 / 1540	6/4 / 1915	6/4 / 2245	6/4 / 3715
Temperature sensor sleeve h7	"/ mm	3/4 / 1836	3/4 / 1895	3/4 / 2475	3/4 / 3375	3/4 / 4870
Inspection opening TU4 h8	mm/ mm	340 / 646	340 / 685	340 / 685	340 / 685	340 / 685
Inspection opening TU4 h9	mm/ mm	340 / 1167	340 / 1205	340 / 1505	340 / 1725	340 / 2705
Inspection opening TU4 h10	mm/ mm	340 / 1687	340 / 1725	340 / 2325	340 / 3225	340 / 4725
Maximum operating pressure of the water heater P	MPa	0.6				
Height H	mm	2308	2379	2985	3885	5385
Diameter without insulation d	mm	1400	1600	1600	1600	1600
Diameter with insulation D	mm	1570	1770	1770	1770	1770
Volume V	l	2765	3734	5095	6885	9901
Weight M	kg	366	539	679	857	1156
Tilting radius R	mm	2791	2965	3470	4269	5668
Maximum length of the TU4 block-type heat exchanger	mm	1500	1500	1560	1560	1560

KHT PS BUFFER TANKS IN SOLID AND REMOVABLE INSULATION

PS buffer tanks are designed for use in heating systems. They are closed vessels that can operate under an internal coolant overpressure of up to 0.5 MPa, made of carbon steel without an internal coating. PS buffer vessels are available in 3 models: PS-00, PS-01, PS-02, available in volumes from 200 to 10,000 litres.

A special feature of this series of buffer tanks is the arrangement of the connection pipes for consumers and energy sources at an angle of 90°, which facilitates the optimal installation of the tank in the boiler room.

It is also possible to manufacture PS buffer tanks with large area stainless steel heat exchangers on request for hydraulic systems requiring a large heat exchange area and high flows.

Marking: KHT PS-0Y-V-GP-PU
KHT PS-0Y-V-GP-PS



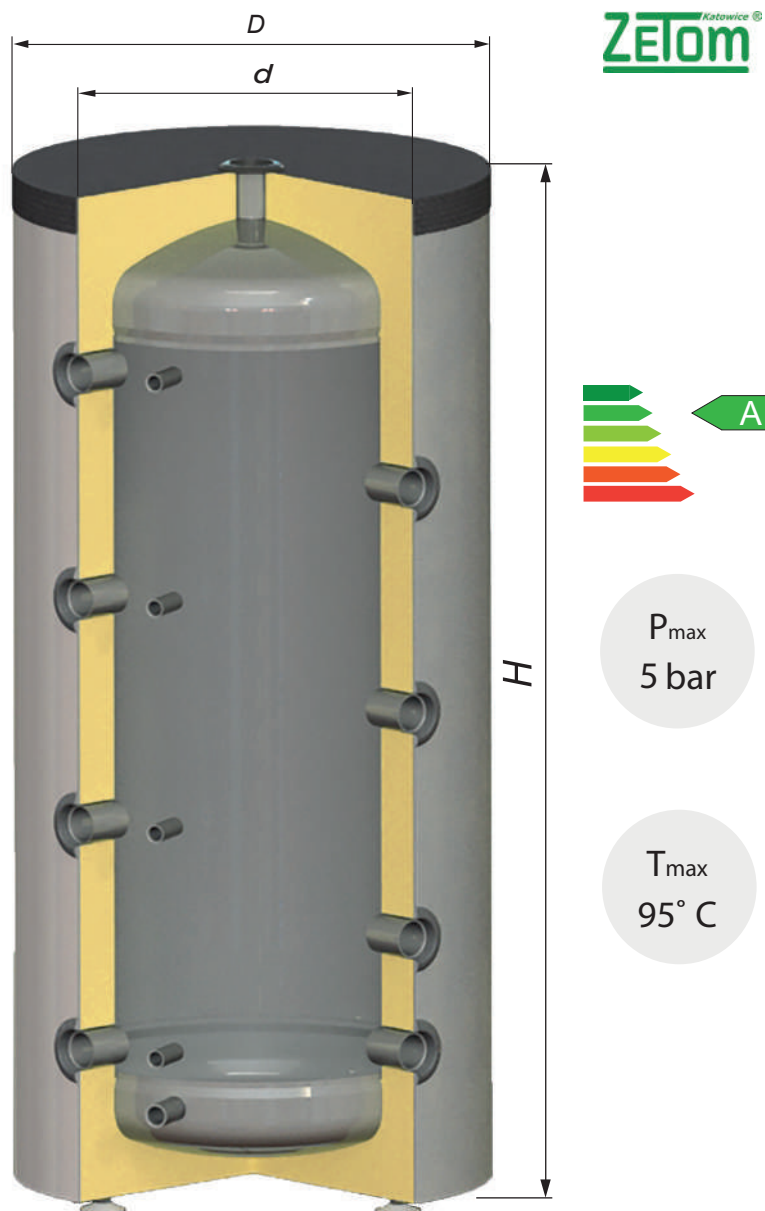
PS - series
Y - number of steel HE
V - standard size
GP - gray insulation color
PU - rigid polyurethane foam insulation
PUM - insulation made of removable soft polyurethane foam
PS - removable thermal insulation.

MODEL PS-01:

Buffer tank with bottom heat exchanger made of carbon steel:
- possibility to connect solar collectors, heat pumps and other energy sources.

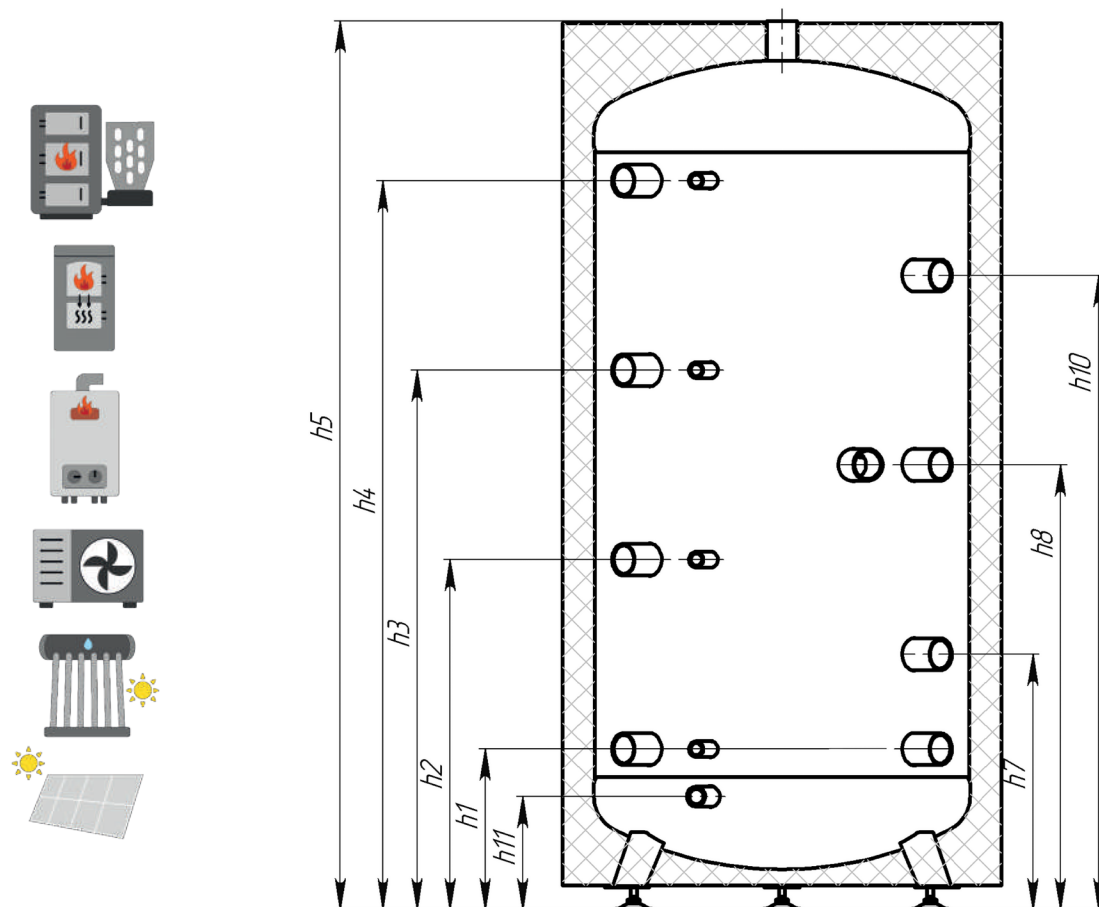
MODEL PS-02:

Buffer tank with two integrated carbon steel heat exchangers:
- possibility to connect solar collectors, heat pumps and other energy sources;
- possibility to connect consumers with a different type or pressure of heat carrier.



SERIES KHT PS-00-GP-PU

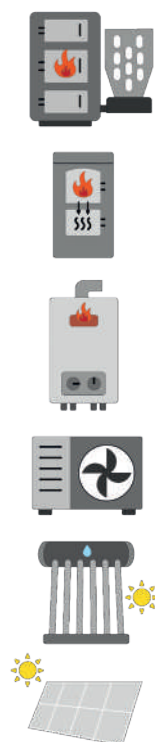
Buffer tanks without heat exchangers in solid thermal insulation



Specifications	Units of measurement	Nominal volumes/ Article		
		200	300	400
		PS000200GPPU	PS000300GPPU	PS000400GPPU
Connection pipes h1	" / mm	6/4 / 212	6/4 / 231	6/4 / 236
Connection pipes h2	" / mm	6/4 / 516	6/4 / 534	6/4 / 619
Connection pipes h3	" / mm	6/4 / 819	6/4 / 837	6/4 / 1002
Connection pipes h4	" / mm	6/4 / 1122	6/4 / 1141	6/4 / 1386
Temperature sensor sleeve	"		1/2	
Connection pipes/ venting h5	" / mm	5/4 / 1360	5/4 / 1396	5/4 / 1646
Connection pipes h7	" / mm	6/4 / 364	6/4 / 382	6/4 / 427
Connection pipes/ heating element pipe h8	" / mm	6/4 / 667	6/4 / 686	6/4 / 811
Connection pipes h10	" / mm	6/4 / 971	6/4 / 989	6/4 / 1194
Drain pipe h11	" / mm	3/4 / 136	3/4 / 155	3/4 / 155
Maximum working pressure of the tank	MPa		0,5	
Total height H	mm	1369	1405	1655
Diameter without insulation d	mm	502	603	603
Diameter with insulation D	mm	634	735	735
Volume	l	236	344	389
Mass	kg	44	54	61
Tilting radius R	mm	1501	1576	1802
Heating element length	mm	500	600	600
Energy efficiency class		A	A	A

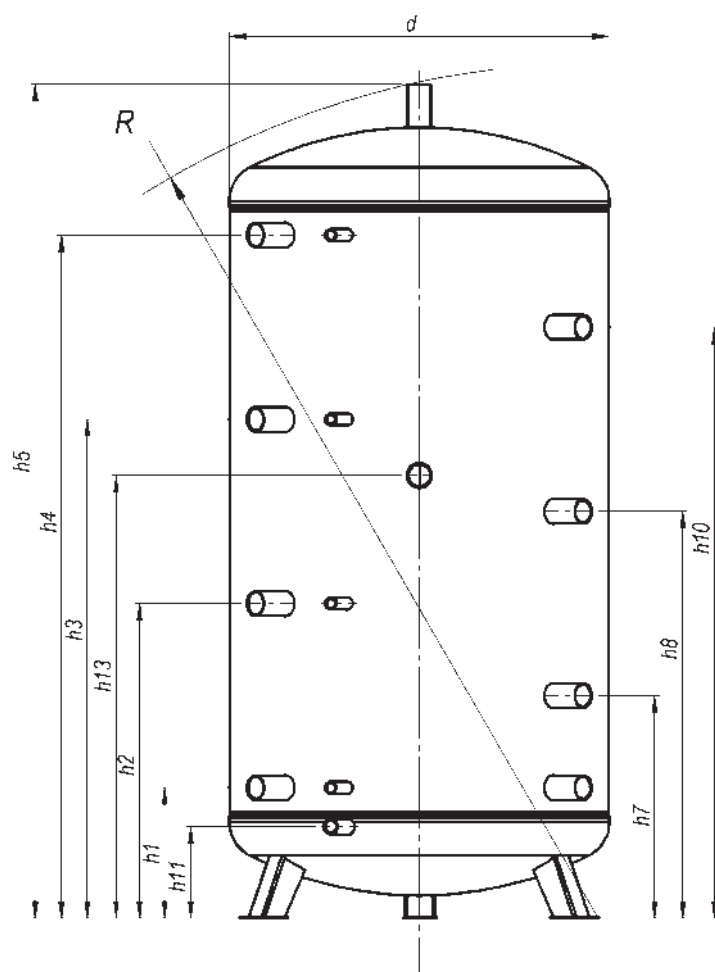
SERIES KHT PS-00-GP-PS

Buffer tanks without heat exchangers in solid thermal insulation



Specifications	Units of measurement	Nominal volumes/ Article						
		200	300	400	500	800	1000	1000-MAX
		PS000200GPPS	PS000300GPPS	PS000400GPPS	PS000500GPPS	PS000800GPPS	PS001000GPPS	PS001000GPPSM
Connection pipes h1	" / mm	6/4 / 204	6/4 / 222	6/4 / 227	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 282
Connection pipes h2	" / mm	6/4 / 507	6/4 / 525	6/4 / 610	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 745
Connection pipes h3	" / mm	6/4 / 811	6/4 / 829	6/4 / 994	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1209
Connection pipes h4	" / mm	6/4 / 1114	6/4 / 1132	6/4 / 1377	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1672
Temperature sensor sleeve	"	1/2						
Connection pipes/ venting h5	" / mm	5/4 / 1378	5/4 / 1414	5/4 / 1664	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 1982
Connection pipes h7	" / mm	6/4 / 356	6/4 / 374	6/4 / 419	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 514
Connection pipes h8	" / mm	6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 977
Connection pipes h10	" / mm	6/4 / 962	6/4 / 980	6/4 / 1185	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1440
Drain pipe h11	" / mm	3/4 / 128	3/4 / 146	3/4 / 147	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 282
Heating element pipe h13	" / mm	6/4 / 659	6/4 / 677	6/4 / 877	6/4 / 937	6/4 / 922	6/4 / 1047	6/4 / 1052
Maximum working pressure of the tank	MPa	0,5						
Total height H	mm	1380	1416	1666	1933	1738	1988	1993
Diameter without insulation d	mm	502	603	603	651	790	790	850
Diameter with insulation D	mm	674	775	775	823	962	962	1022
Nominal volume	l	236	344	389	564	733	850	968
Mass	kg	42	51	56	69	77	86	91
Tilting radius R	mm	1409	1455	1699	1968	1791	2034	2038
Heating element length	mm	500	600	600	650	790	790	850
Energy efficiency class		B	B	B	B	B	B	B

SERIES KHT PS-00-GP-PS/PUM - Buffer tanks without heat exchangers in removable insulation made of soft polyurethane foam

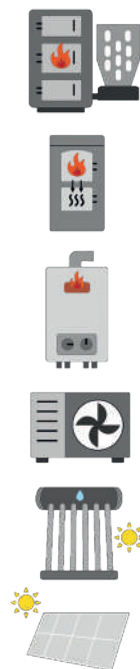


Specifications	Units of measurement	Nominal volumes/ Article						
		1500	2000	3000	4000	5000	7000	10000
		PS001500GPPS	PS002000GPPS	PS003000GPPS	PS004000GPPS	PS005000GPPS	PS007000GPPS	PS010000GPPS
Connection pipes h1	" / mm	6/4 / 295	6/4 / 340	6/4 / 435	6/4 / 465	2 / 465	3 / 490	3 / 490
Connection pipes h2	" / mm	6/4 / 758	6/4 / 803	6/4 / 898	6/4 / 928	2 / 1128	3 / 1437	3 / 1830
Connection pipes h3	" / mm	6/4 / 1222	6/4 / 1267	6/4 / 1362	6/4 / 1392	2 / 1792	3 / 2383	3 / 3490
Connection pipes h4	" / mm	6/4 / 1685	6/4 / 1730	6/4 / 1825	6/4 / 1855	2 / 2455	3 / 3330	3 / 4830
Temperature sensor sleeve	"	1/2						
Connection pipes/ venting h5	" / mm	5/4 / 2027	5/4 / 2199	5/4 / 2220	5/4 / 2300	3 / 2896	3 / 3800	3 / 5296
Connection pipes h7	" / mm	6/4 / 527	6/4 / 572	6/4 / 667	6/4 / 697	2 / 797	3 / 1040	3 / 1160
Connection pipes h8	" / mm	6/4 / 990	6/4 / 1035	6/4 / 1130	6/4 / 1160	2 / 1460	3 / 1987	3 / 2660
Connection pipes h10	" / mm	6/4 / 1453	6/4 / 1498	6/4 / 1593	6/4 / 1623	2 / 2120	3 / 2933	3 / 4160
Drain pipe h11	" / mm	3/4 / 209	3/4 / 254	1 / 349	1 / 370	1 / 370	1 / 370	1 / 370
Heating element pipe h13	" / mm	6/4 / 1115	6/4 / 1160	6/4 / 1255	6/4 / 1285	6/4 / 1285	6/4 / 1285	6/4 / 1285
Maximum working pressure of the tank	MPa	0,3						
Total height H	mm	2029	2105	2220	2300	2896	3799	5296
Diameter without insulation d	mm	997	1196	1397	1600	1600	1600	1600
Diameter with insulation D	mm	1169	1368	1569	1772	1772	1772	1772
Nominal volume	l	1361	2113	2735	3734	4962	6771	9787
Mass	kg	128	181	280	378	454	580	760
Tilting radius R	mm	2099	2199	2363	2526	2961	3849	5328
Heating element length	mm	995	1195	1395	1600	1600	1600	1600
Energy efficiency class		C	C	C	C	C	C	C

SERIES KHT PS-01-GP-PS

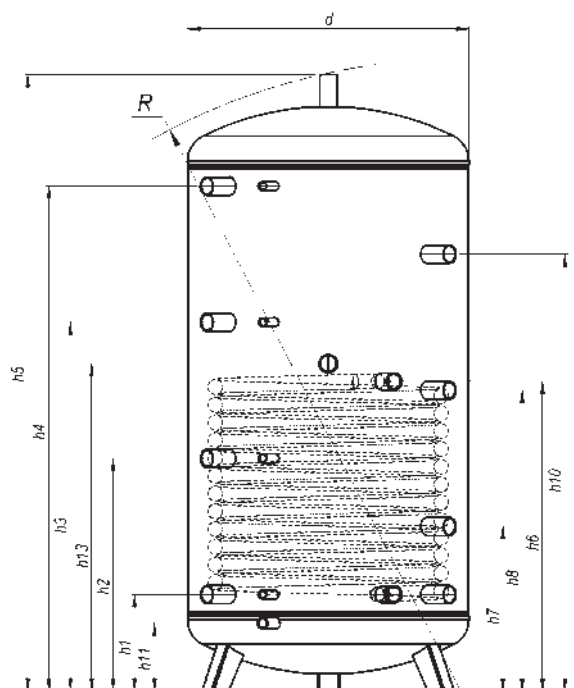
Buffer tanks with 1 heat exchanger in removable insulation

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Specifications	Units of measurement	Nominal volumes/ Article							
		200	300	400	500	800	1000	1500	2000
		PS010200GPPS	PS010300GPPS	PS010400GPPS	PS010500GPPS	PS010800GPPS	PS011000GPPS	PS011500GPPS	PS012000GPPS
Connection pipes h1	" / mm	6/4 / 204	6/4 / 222	6/4 / 227	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 340
Connection pipes h2	" / mm	6/4 / 507	6/4 / 525	6/4 / 610	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 803
Connection pipes h3	" / mm	6/4 / 811	6/4 / 829	6/4 / 994	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1267
Connection pipes h4	" / mm	6/4 / 1114	6/4 / 1132	6/4 / 1377	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1730
Temperature sensor sleeve	"	1/2							
Connection pipes/ venting h5	" / mm	5/4 / 1378	5/4 / 1414	5/4 / 1664	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2199
Lower heat exchanger return line branch pipe h1	" / mm	1 / 204	1 / 222	1 / 227	1 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 340
Lower heat exchanger supply line branch pipe h6	" / mm	1 / 604	1 / 622	1 / 827	1 / 842	5/4 / 872	5/4 / 877	5/4 / 1045	5/4 / 1090
Connection pipes h7	" / mm	6/4 / 356	6/4 / 374	6/4 / 419	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 572
Connection pipes h8	" / mm	6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1035
Connection pipes h10	" / mm	6/4 / 962	6/4 / 980	6/4 / 1185	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1498
Drain pipe h11	" / mm	3/4 / 128	3/4 / 146	3/4 / 147	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 254
Heating element pipe h13	" / mm	6/4 / 659	6/4 / 677	6/4 / 827	6/4 / 1037	6/4 / 922	6/4 / 1047	6/4 / 1115	6/4 / 1160
Operating pressure of the heat exchangers	MPa	1							
Area of the lower heat exchanger	m²	1,2	1,2	1,8	1,8	3,2	3,2	4,7	4,7
Volume of the lower heat exchanger	l	7,4	7,4	11,2	11,2	29,5	29,5	42	42
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1380	1416	1666	1933	1738	1988	2029	2105
Diameter without insulation d/ with insulation D	mm	502/ 674	603/ 775	603/ 775	651/ 823	790/ 962	790/ 962	997/ 1169	1196/ 1368
Total volume	l	236	344	419	564	733	850	1361	2113
Nominal volume	l	227	335	405	552	707	816	1311	2063
Mass	kg	58	67	82	94	127	138	212	247
Tilting radius R	mm	1409	1455	1699	1968	1791	2034	2099	2199
Heating element length	mm	500	600	600	650	790	790	995	1195
Energy efficiency class		B	B	B	B	B	B	C	C

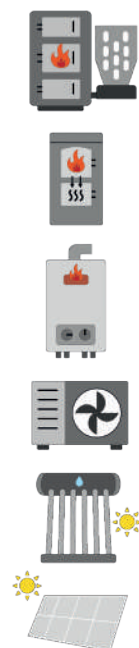
SERIES KHT PS-01-GP-PUM - Buffer tanks with 1 heat exchanger in removable insulation made of soft polyurethane foam



Specifications	Units of measurement	Nominal volumes/ Article				
		3000	4000	5000	7000	10000
		PS013000GPPS	PS014000GPPS	PS015000GPPS	PS017000GPPS	PS0110000GPPS
Connection pipes h1	" / mm	6/4 / 435	6/4 / 465	2 / 465	3 / 490	3 / 490
Connection pipes h2	" / mm	6/4 / 898	6/4 / 928	2 / 1128	3 / 1437	3 / 1830
Connection pipes h3	" / mm	6/4 / 1362	6/4 / 1392	2 / 1792	3 / 2383	3 / 3490
Connection pipes h4	" / mm	6/4 / 1825	6/4 / 1855	2 / 2455	3 / 3330	3 / 4830
Temperature sensor sleeve	"			1/2		
Connection pipes/ venting h5	" / mm	5/4 / 2220	5/4 / 2300	3 / 2896	3 / 3800	3 / 5296
Lower heat exchanger return line branch pipe h1	" / mm	5/4 / 435	5/4 / 465	5/4 / 465	5/4 / 490	5/4 / 490
Lower heat exchanger supply line branch pipe h6	" / mm	5/4 / 1185	5/4 / 1215	5/4 / 1215	5/4 / 1240	5/4 / 1240
Connection pipes h7	" / mm	6/4 / 667	6/4 / 697	2 / 797	3 / 1040	3 / 1160
Connection pipes h8	" / mm	6/4 / 1130	6/4 / 1160	2 / 1460	3 / 1987	3 / 2660
Connection pipes h10	" / mm	6/4 / 1593	6/4 / 1623	2 / 2120	3 / 2933	3 / 4160
Drain pipe h11	" / mm	1 / 349	1 / 370	1 / 370	1 / 370	1 / 370
Heating element pipe h13	" / mm	6/4 / 1255	6/4 / 1285	6/4 / 1285	6/4 / 1285	6/4 / 1285
Operating pressure of the heat exchangers	MPa			1		
Area of the lower heat exchanger	m ²	4,7	4,7	4,7	4,7	4,7
Volume of the lower heat exchanger	l	42	42	42	42	42
Maximum working pressure of the tank	MPa			0,3		
Total height H	mm	2220	2300	2896	3799	5296
Diameter without insulation d/ with insulation D	mm	1397/1569	1600/1772	1600/1772	1600/1772	1600/1772
Total volume	l	2735	3734	4962	6771	9787
Nominal volume	l	2685	3684	4912	6721	9737
Mass	kg	346	444	520	646	826
Tilting radius R	mm	2363	2526	2961	3849	5328
Heating element length	mm	1395	1600	1600	1600	1600
Energy efficiency class		C	C	C	C	C

SERIES KHT PS-02-GP-PS

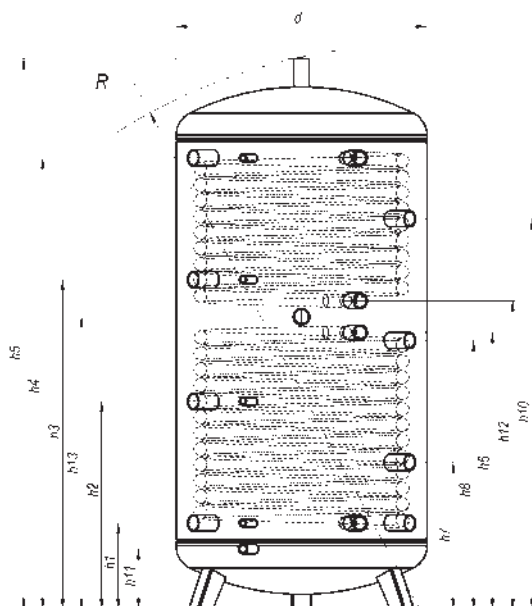
Buffer tanks with 2 heat exchangers in removable insulation



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Specifications	Units of measurement	Nominal volumes/ Article				
		500	800	1000	1500	2000
		PS020500GPPS	PS020800GPPS	PS0201000GPPS	PS0201500GPPS	PS0202000GPPS
Connection pipes h1	" / mm	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 340
Connection pipes h2	" / mm	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 803
Connection pipes h3	" / mm	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1267
Connection pipes h4	" / mm	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1730
Temperature sensor sleeve	"	1/2				
Connection pipes/ venting h5	" / mm	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2199
Upper heat exchanger return line branch pipe h12	" / mm	1 / 1232	5/4 / 972	5/4 / 1217	5/4 / 1185	5/4 / 1230
Upper heat exchanger supply line branch pipe h4	" / mm	1 / 1632	5/4 / 1422	5/4 / 1667	5/4 / 1685	5/4 / 1730
Lower heat exchanger return line branch pipe h1	" / mm	1 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 340
Lower heat exchanger supply line branch pipe h6	" / mm	1 / 842	5/4 / 872	5/4 / 877	5/4 / 1045	5/4 / 1090
Connection pipes h7	" / mm	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 572
Connection pipes h8	" / mm	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1035
Connection pipes h10	" / mm	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1498
Drain pipe h11	" / mm	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 254
Heating element pipe h13	" / mm	6/4 / 1037	6/4 / 922	6/4 / 1047	6/4 / 1115	6/4 / 1160
Operating pressure of the heat exchangers	MPa	1				
Upper heat exchanger area	m ²	1,2	2,4	2,4	3,2	3,2
Volume of the upper heat exchanger	l	8	22	22	29,5	29,5
Area of the lower heat exchanger	m ²	1,8	3,2	3,2	4,7	4,7
Volume of the lower heat exchanger	l	11,2	29,5	29,5	42	42
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1933	1738	1988	2029	2105
Diameter without insulation d/ with insulation D	mm	651/ 823	790/ 962	790/ 962	997/ 1169	1196/ 1368
Total volume	l	564	733	850	1361	2113
Nominal volume	l	541	674	791	1277	2029
Mass	kg	123	155	166	249	329
Tilting radius R	mm	1968	1791	2034	2099	2199
Heating element length	mm	650	790	790	995	1195
Energy efficiency class		B	B	B	C	C

SERIES KHT PS-02-GP-PUM - Buffer tanks with 2 heat exchangers in removable insulation made of soft polyurethane foam



Specifications	Units of measurement	Nominal volumes/ Article				
		3000	4000	5000	7000	10000
		PS023000GPPUM	PS024000GPPUM	PS025000GPPUM	PS027000GPPUM	PS0210000GPPUM
Connection pipes h1	" / mm	6/4 / 435	6/4 / 465	2 / 465	3 / 490	3 / 490
Connection pipes h2	" / mm	6/4 / 898	6/4 / 928	2 / 1128	3 / 1437	3 / 1830
Connection pipes h3	" / mm	6/4 / 1362	6/4 / 1392	2 / 1792	3 / 2383	3 / 3490
Connection pipes h4	" / mm	6/4 / 1825	6/4 / 1855	2 / 2455	3 / 3330	3 / 4830
Temperature sensor sleeve	"	1/2				
Connection pipes/ venting h5	" / mm	5/4 / 2220	5/4 / 2300	3 / 2896	3 / 3800	3 / 5296
Upper heat exchanger return line branch pipe h12	" / mm	5/4 / 1325	5/4 / 1355	5/4 / 1355	5/4 / 3330	5/4 / 4830
Upper heat exchanger supply line branch pipe h4	" / mm	5/4 / 1825	5/4 / 1855	5/4 / 2455	5/4 / 2830	5/4 / 4330
Lower heat exchanger return line branch pipe h1	" / mm	5/4 / 435	5/4 / 465	5/4 / 465	5/4 / 490	5/4 / 490
Lower heat exchanger supply line branch pipe h6	" / mm	5/4 / 1185	5/4 / 1215	5/4 / 1215	5/4 / 1240	5/4 / 1240
Connection pipes h7	" / mm	6/4 / 667	6/4 / 697	2 / 797	3 / 1040	3 / 1160
Connection pipes h8	" / mm	6/4 / 1130	6/4 / 1160	2 / 1460	3 / 1987	3 / 2660
Connection pipes h10	" / mm	6/4 / 1593	6/4 / 1623	2 / 2120	3 / 2933	3 / 4160
Drain pipe h11	" / mm	1 / 349	1 / 370	1 / 370	1 / 370	1 / 370
Heating element pipe h13	" / mm	6/4 / 1255	6/4 / 1285	6/4 / 1285	6/4 / 1285	6/4 / 1285
Operating pressure of the heat exchangers	MPa	1				
Upper heat exchanger area	m ²	3,2	3,2	3,2	3,2	3,2
Volume of the upper heat exchanger	l	29,5	29,5	29,5	29,5	29,5
Area of the lower heat exchanger	m ²	4,7	4,7	4,7	4,7	4,7
Volume of the lower heat exchanger	l	42	42	42	42	42
Maximum working pressure of the tank	MPa	0,3				
Total height H	mm	2220	2300	2896	3799	5296
Diameter without insulation d/ with insulation D	mm	1397/1569	1600/1772	1600/1772	1600/1772	1600/1772
Total volume	l	2735	3734	4962	6771	9787
Nominal volume	l	2651	3650	4878	6687	9703
Mass	kg	384	482	558	684	864
Tilting radius R	mm	2363	2526	2961	3849	5328
Heating element length	mm	1395	1600	1600	1600	1600
Energy efficiency class		C	C	C	C	C

KHT PSI BUFFER TANKS IN REMOVABLE INSULATION

PSI series buffer tanks have a built-in stainless steel upper heat exchanger, the main purpose of which is to produce hot water for domestic use in high-temperature heating systems. The heat exchanger, made of corrugated stainless steel pipe AISI-316L, ensures hygienic water preparation, which prevents the development of the Legionella bacterium. It is suitable for connecting various heat sources, in particular: solid fuel boilers, electric boilers, solar collectors, etc.



Marking: KHT PSI-XY-V-GP-PS

PSI - series

X - number of stainless HE

Y - number of steel HE

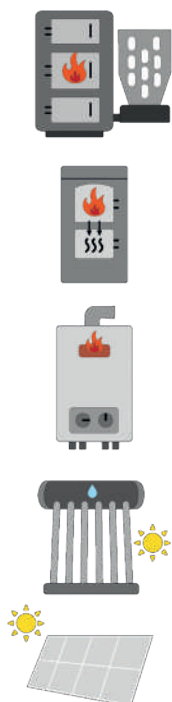
V - standard size

GP - gray insulation color,

PS - removable thermal insulation



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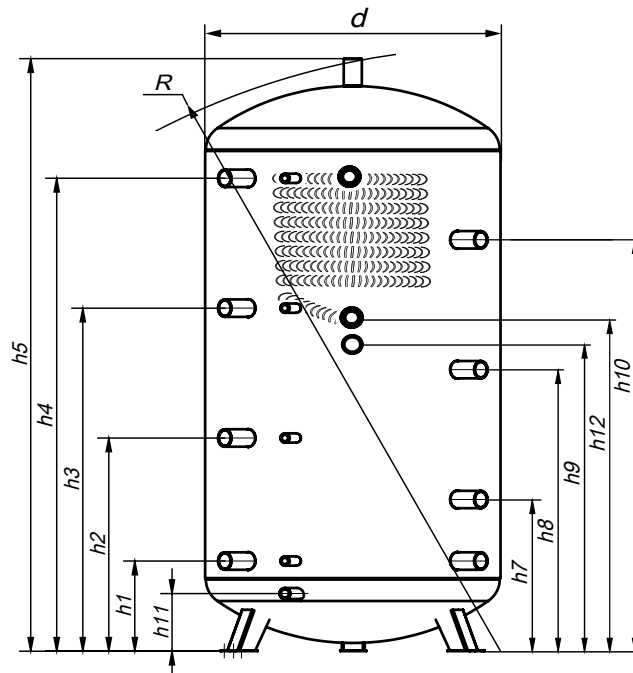


$P_{\max}$
5 bar

$T_{\max}$
95° C

SERIES KHT PSI-10-GP-PS

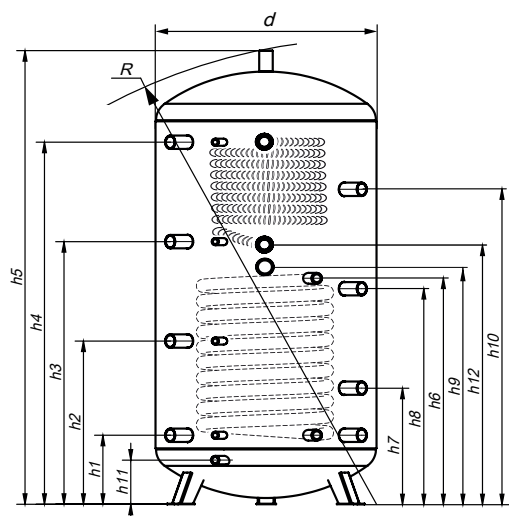
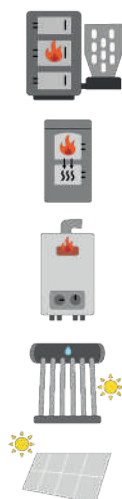
Buffer tanks with upper heat exchanger made of AISI 316L stainless steel



Specifications	Units of measurement	Nominal volumes/ Article							
		200	300	400	500	800	1000	1500	2000
		PSI100200GPPS	PSI100300GPPS	PSI100400GPPS	PSI100500GPPS	PSI100800GPPS	PSI1001000GPPS	PSI1001500GPPS	PSI1002000GPPS
Connection pipes h1	" / mm	6/4 / 204	6/4 / 222	6/4 / 227	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 340
Connection pipes h2	" / mm	6/4 / 507	6/4 / 525	6/4 / 610	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 803
Connection pipes h3	" / mm	6/4 / 811	6/4 / 829	6/4 / 994	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1267
Connection pipes h4	" / mm	6/4 / 1114	6/4 / 1132	6/4 / 1377	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1730
Temperature sensor sleeve	"	1/2							
Connection pipes/ venting h5	" / mm	5/4 / 1378	5/4 / 1414	5/4 / 1664	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2199
Upper DHW heat exchanger supply line branch pipe h12	" / mm	1 / 764	1 / 782	1 / 1027	1 / 1282	1 / 1072	1 / 1317	1 / 1335	1 / 1380
Upper DHW heat exchanger return line branch pipe h4	" / mm	1 / 1114	1 / 1132	1 / 1377	1 / 1632	1 / 1422	1 / 1667	1 / 1685	1 / 1730
Connection pipes h7	" / mm	6/4 / 356	6/4 / 374	6/4 / 419	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 572
Connection pipes h8	" / mm	6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1035
Electric heating element pipe h9	" / mm	6/4 / 664	6/4 / 682	6/4 / 927	6/4 / 1062	6/4 / 972	6/4 / 1097	6/4 / 1190	6/4 / 1235
Connection pipes h10	" / mm	6/4 / 962	6/4 / 980	6/4 / 1185	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1498
Drain pipe h11	" / mm	3/4 / 128	3/4 / 146	3/4 / 147	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 254
Operating pressure of the heat exchangers	MPa	1							
DHW heat exchanger area	m ²	2							
DHW heat exchanger volume	l	6,5							
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1380	1416	1666	1933	1738	1988	2029	2105
Diameter without insulation d/ with insulation D	mm	502/674	603/775	603/775	651/823	790/962	790/962	997/1169	1196/1368
Total volume	l	236	344	419	564	733	850	1361	2113
Nominal volume	l	229	337	412	557	726	843	1354	2106
Mass	kg	49	59	64	76	84	93	135	189
Tilting radius R	mm	1409	1455	1699	1968	1791	2034	2099	2199
Nominal pipe diameter	DN	25							
Surface area	m ²	2							
Heating element length	mm	500	600	600	650	790	790	995	1195
Energy efficiency class		B	B	B	B	B	B	C	C

SERIES KHT PSI-11-GP-PS

Buffer tanks with upper heat exchanger made of AISI 316L stainless steel and lower heat exchanger made of carbon steel



Specifications	Units of measurement	Nominal volumes/ Article							
		200	300	400	500	800	1000	1500	2000
		PSI110200GPPS	PSI110300GPPS	PSI110400GPPS	PSI110500GPPS	PSI110800GPPS	PSI1101000GPPS	PSI1101500GPPS	PSI1102000GPPS
Connection pipes h1	" / mm	6/4 / 204	6/4 / 222	6/4 / 227	6/4 / 242	6/4 / 272	6/4 / 277	6/4 / 295	6/4 / 340
Connection pipes h2	" / mm	6/4 / 507	6/4 / 525	6/4 / 610	6/4 / 705	6/4 / 655	6/4 / 740	6/4 / 758	6/4 / 803
Connection pipes h3	" / mm	6/4 / 811	6/4 / 829	6/4 / 994	6/4 / 1169	6/4 / 1039	6/4 / 1204	6/4 / 1222	6/4 / 1267
Connection pipes h4	" / mm	6/4 / 1114	6/4 / 1132	6/4 / 1377	6/4 / 1632	6/4 / 1422	6/4 / 1667	6/4 / 1685	6/4 / 1730
Temperature sensor sleeve	"	1/2							
Connection pipes/ venting h5	" / mm	5/4 / 1378	5/4 / 1414	5/4 / 1664	5/4 / 1931	5/4 / 1736	5/4 / 1986	5/4 / 2027	5/4 / 2199
Upper DHW heat exchanger supply line branch pipe h12	" / mm	1 / 764	1 / 782	1 / 1027	1 / 1282	1 / 1072	1 / 1317	1 / 1335	1 / 1380
Upper DHW heat exchanger return line branch pipe h4	" / mm	1 / 1114	1 / 1132	1 / 1377	1 / 1632	1 / 1422	1 / 1667	1 / 1685	1 / 1730
Lower heat exchanger return line branch pipe h1	" / mm	1 / 204	1 / 222	1 / 227	1 / 242	5/4 / 272	5/4 / 277	5/4 / 295	5/4 / 340
Lower heat exchanger supply line branch pipe h6	" / mm	1 / 604	1 / 622	1 / 827	1 / 842	5/4 / 872	5/4 / 877	5/4 / 1045	5/4 / 1090
Connection pipes h7	" / mm	6/4 / 356	6/4 / 374	6/4 / 419	6/4 / 474	6/4 / 464	6/4 / 509	6/4 / 527	6/4 / 572
Connection pipes h8	" / mm	6/4 / 659	6/4 / 677	6/4 / 802	6/4 / 937	6/4 / 847	6/4 / 972	6/4 / 990	6/4 / 1035
Electric heating element pipe h9	" / mm	6/4 / 664	6/4 / 682	6/4 / 927	6/4 / 1062	6/4 / 972	6/4 / 1097	6/4 / 1190	6/4 / 1235
Connection pipes h10	" / mm	6/4 / 962	6/4 / 980	6/4 / 1185	6/4 / 1400	6/4 / 1230	6/4 / 1435	6/4 / 1453	6/4 / 1498
Drain pipe h11	" / mm	3/4 / 128	3/4 / 146	3/4 / 147	3/4 / 156	3/4 / 191	3/4 / 191	3/4 / 209	3/4 / 254
Operating pressure of the heat exchangers	MPa	1							
DHW heat exchanger area	m ²	2							
DHW heat exchanger volume	l	6,5							
Area of the lower heat exchanger	m ²	1,2	1,2	1,8	1,8	3,2	3,2	4,7	4,7
Volume of the lower heat exchanger	l	7,4	7,4	11,2	11,2	29,5	29,5	42	42
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1380	1416	1666	1933	1738	1988	2029	2105
Diameter without insulation d/ with insulation D	mm	502/674	603/775	603/775	651/823	790/962	790/962	997/1169	1196/1368
Total volume	l	236	344	419	564	733	850	1361	2113
Nominal volume	l	220	328	398	545	692	809	1304	2056
Mass	kg	65	72	88	101	134	145	219	255
Tilting radius R	mm	1409	1455	1699	1968	1791	2034	2099	2199
Nominal pipe diameter	DN	25							
Surface area	m ²	2							
Heating element length	mm	500	600	600	650	790	790	995	1195
Energy efficiency class		B	B	B	B	B	B	C	C

EAM buffer tanks are designed for use in heating systems. They are closed vessels that can operate under an overpressure of the internal heat transfer fluid up to 0.5 MPa, made of carbon steel without internal coating. They are available in volumes from 200 to 10,000 litres.

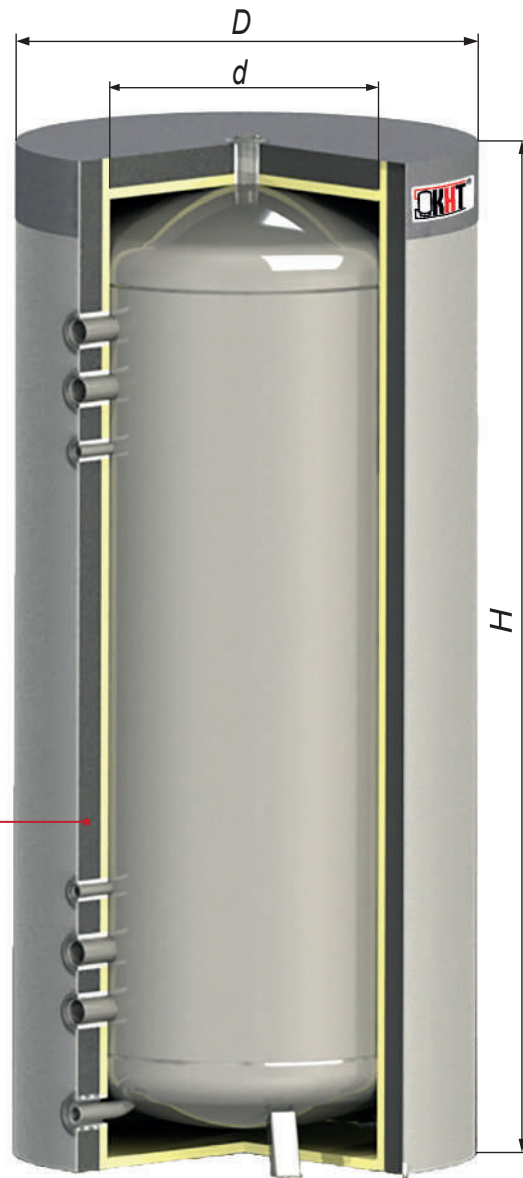


ZETOM Katowice

Marking: KHT EAM-00-V-GP-PS

EAM - series
V - standard size
GP - gray insulation color
PUM - insulation made of removable soft polyurethane foam
PS - removable thermal insulation

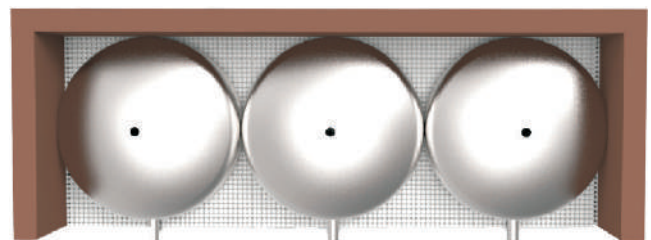
Composite high-performance removable thermal insulation, 80 mm



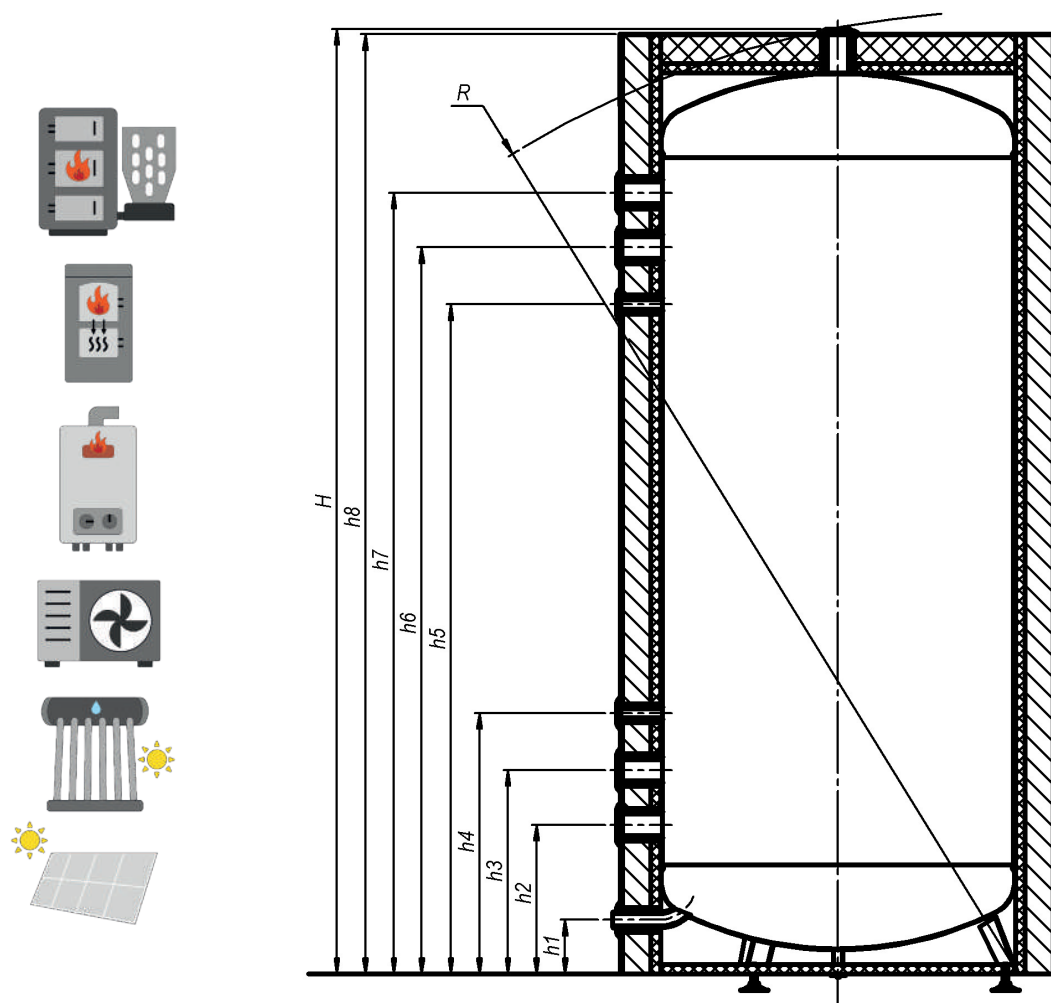
$P_{\max}$
5 bar

$T_{\max}$
95° C

A special feature of the buffer tanks of this series is that all connection pipes are located on one side. This feature makes it possible to combine the tanks in a cascade, which is very important for achieving the required volume of coolant when it is impossible to install one large tank.

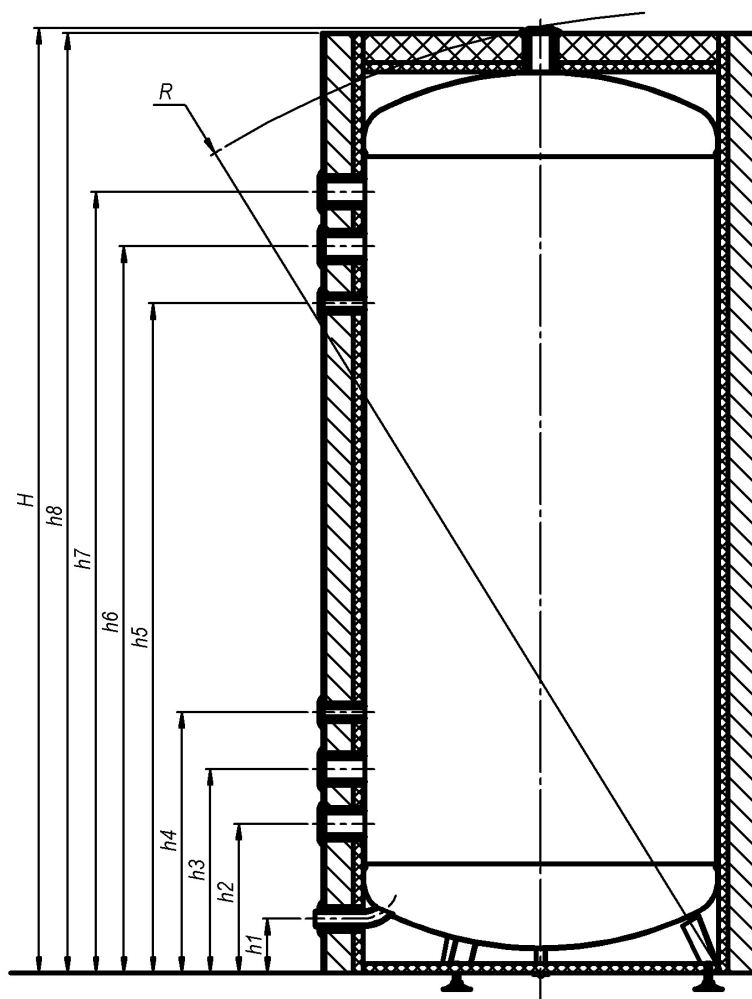


SERIES KHT EAM-00-GP-PS



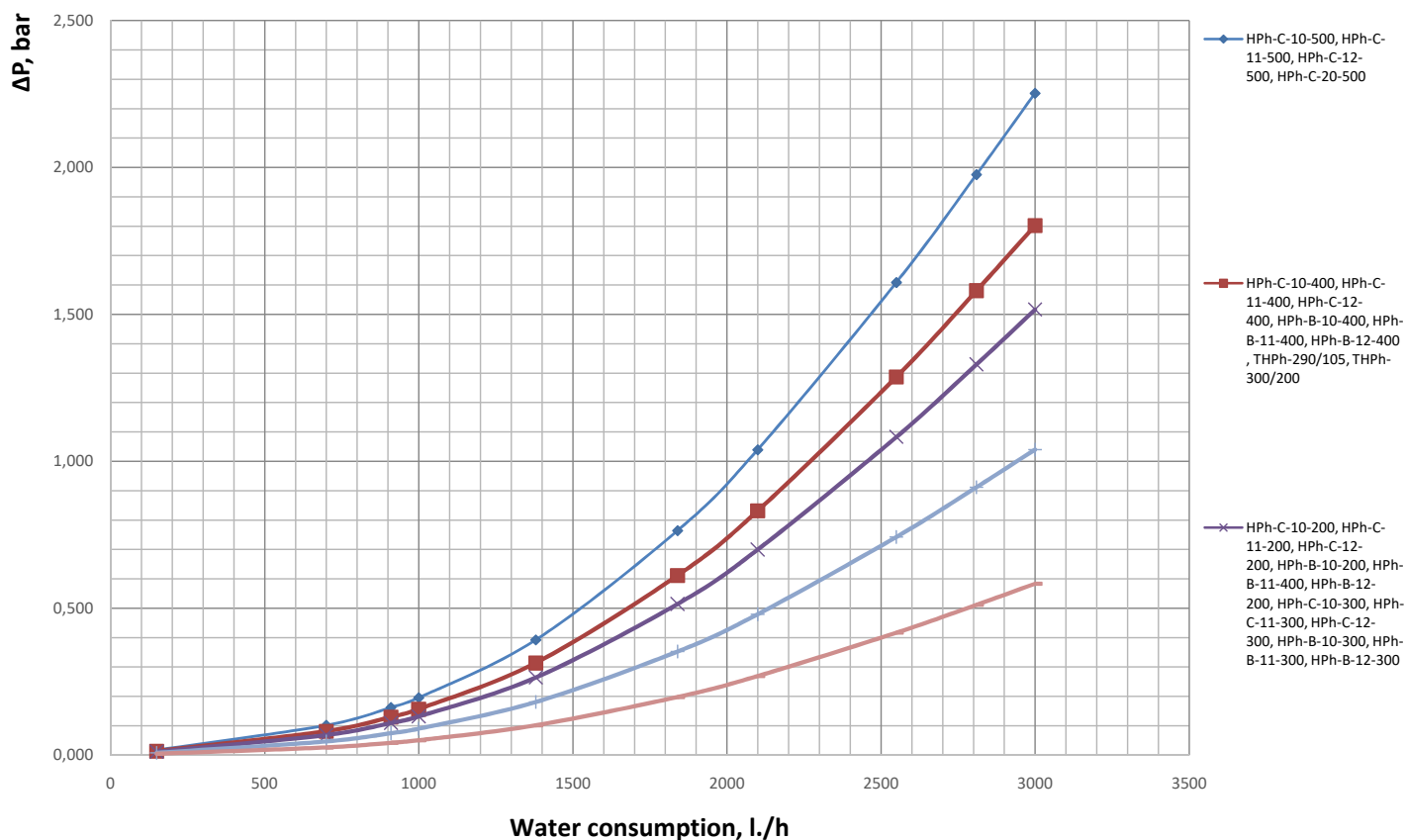
Specifications	Units of measurement	Nominal volumes/ Article							
		200	300	400	500	750	1000	1500	2000
		EAM000200GPPS	EAM000300GPPS	EAM000400GPPS	EAM000500GPPS	EAM000750GPPS	EAM001000GPPS	EAM001500GPPS	EAM002000GPPS
Connection pipes h1	" / mm	1 / 49	1 / 67	1 / 67	1 / 67	1 / 114	1 / 117	1 / 130	1 / 226
Connection pipes h2	" / mm	6/4 / 249	6/4 / 267	6/4 / 267	6/4 / 267	6/4 / 314	6/4 / 317	6/4 / 330	6/4 / 426
Connection pipes h3	" / mm	6/4 / 364	6/4 / 382	6/4 / 382	6/4 / 382	6/4 / 429	6/4 / 432	6/4 / 445	6/4 / 547
Connection pipes h4	" / mm	1/2 / 484	1/2 / 502	1/2 / 502	1/2 / 502	1/2 / 549	1/2 / 552	1/2 / 565	1/2 / 661
Connection pipes/venting h5	" / mm	1/2 / 844	1/2 / 862	1/2 / 1112	1/2 / 1362	1/2 / 1409	1/2 / 1412	1/2 / 1425	1/2 / 1521
Temperature sensor sleeve h6	" / mm	6/4 / 964	6/4 / 982	6/4 / 1232	6/4 / 1482	6/4 / 1529	6/4 / 1532	6/4 / 1545	6/4 / 1641
Connection pipes h7	" / mm	6/4 / 1079	6/4 / 1097	6/4 / 1347	6/4 / 1597	6/4 / 1644	6/4 / 1647	6/4 / 1660	6/4 / 1756
Connection pipes h8	" / mm	6/4 / 1378	6/4 / 1414	6/4 / 1664	6/4 / 1914	6/4 / 1986	6/4 / 1991	6/4 / 2027	6/4 / 2205
Maximum working pressure of the tank	MPa	0,5	0,5	0,5	0,5	0,5	0,5	0,3	0,3
Total height H	mm	1380	1416	1666	1916	1988	1993	2029	2213
Diameter without insulation d/ with insulation D	mm	502/ 674	603/775	603/775	603/775	747/919	850/1022	997/1169	1196/1368
Nominal volume	l	232	338	408	478	748	968	1361	1979
Mass	kg	40	49	55	62	79	91	126	184
Tilting radius R	mm	1409	1455	1699	1968	2030	2034	2099	2293
Heating element length	mm	500	600	600	600	745	850	995	1195
Energy efficiency class		B	B	B	B	B	B	C	C

SERIES KHT EAM-00-GP-PUM

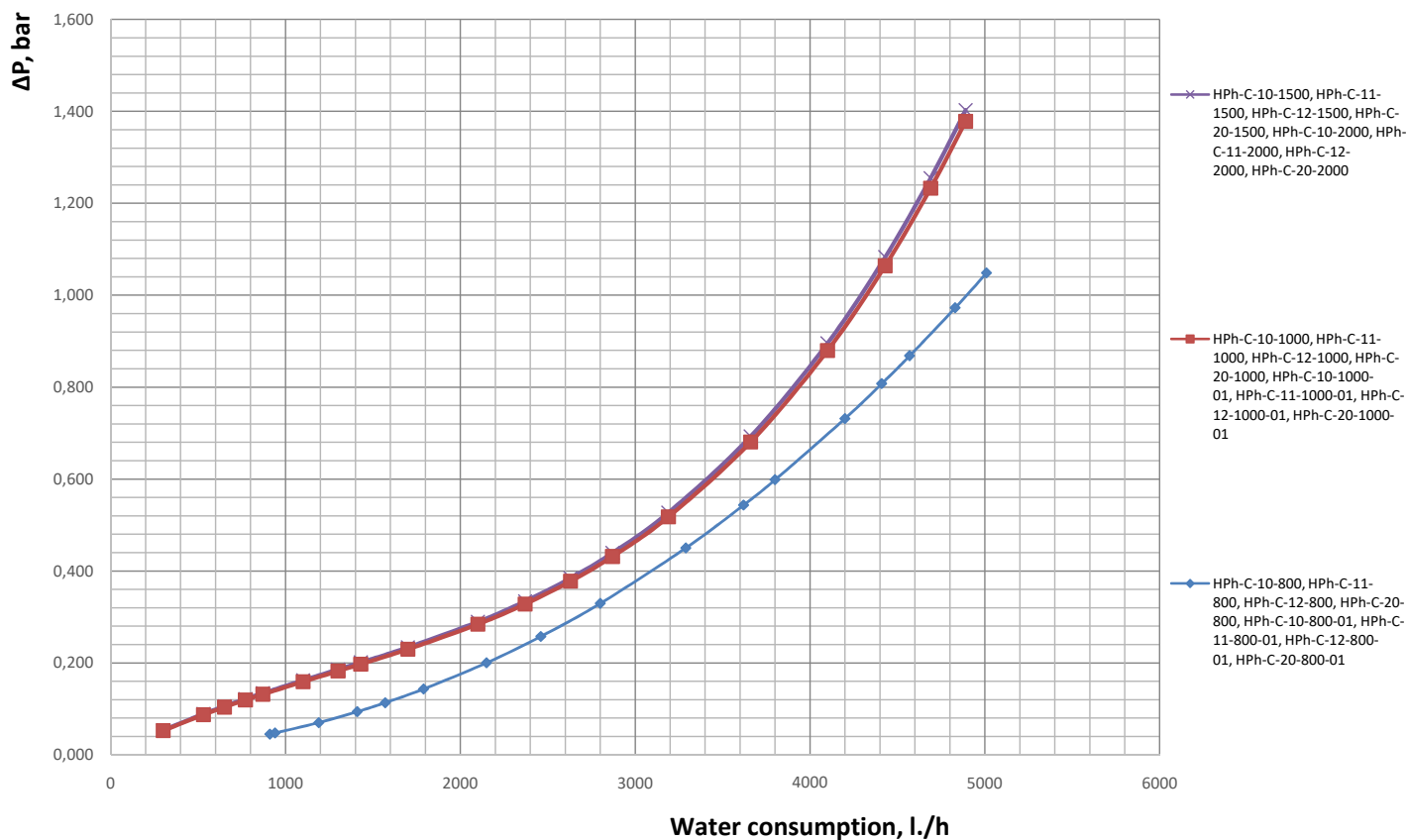


Specifications	Units of measurement	Nominal volumes/ Article				
		3000	4000	5000	7000	10000
		EAM003000GPPUM	EAM004000GPPUM	EAM005000GPPUM	EAM007000GPPUM	EAM0010000GPPUM
Connection pipes h1	" / mm	1 / 265	1 / 295	1 / 295	1 / 295	1 / 295
Connection pipes h2	" / mm	2 / 465	2 / 495	2 / 495	2 / 495	2 / 495
Connection pipes h3	" / mm	2 / 580	2 / 610	2 / 610	2 / 610	2 / 610
Connection pipes h4	" / mm	1/2 / 700	1/2 / 730	1/2 / 730	1/2 / 730	1/2 / 730
Connection pipes/ venting h5	" / mm	1/2 / 1560	1/2 / 1590	1/2 / 2190	1/2 / 3090	1/2 / 2190
Temperature sensor sleeve h6	" / mm	2 / 1680	2 / 1710	2 / 2310	2 / 3210	2 / 2310
Connection pipes h7	" / mm	2 / 1795	2 / 1825	2 / 2425	2 / 3325	2 / 2425
Connection pipes h8	" / mm	2 / 2220	2 / 2300	2 / 2896	2 / 3799	2 / 5296
Maximum working pressure of the tank	MPa	0,3				
Total height H	mm	2220	2300	2896	3800	5296
Diameter without insulation d/ with insulation D	mm	1397/1569	1600/1772	1600/1772	1600/1772	1600/1772
Nominal volume	l	2735	3734	4962	6771	9787
Mass	kg	287,5	389	470,5	585	901
Tilting radius R	mm	2363	2430	2961	3849	5328
Heating element length	mm	1395	1600	1600	1600	1600
Energy efficiency class		C	C	C	C	C

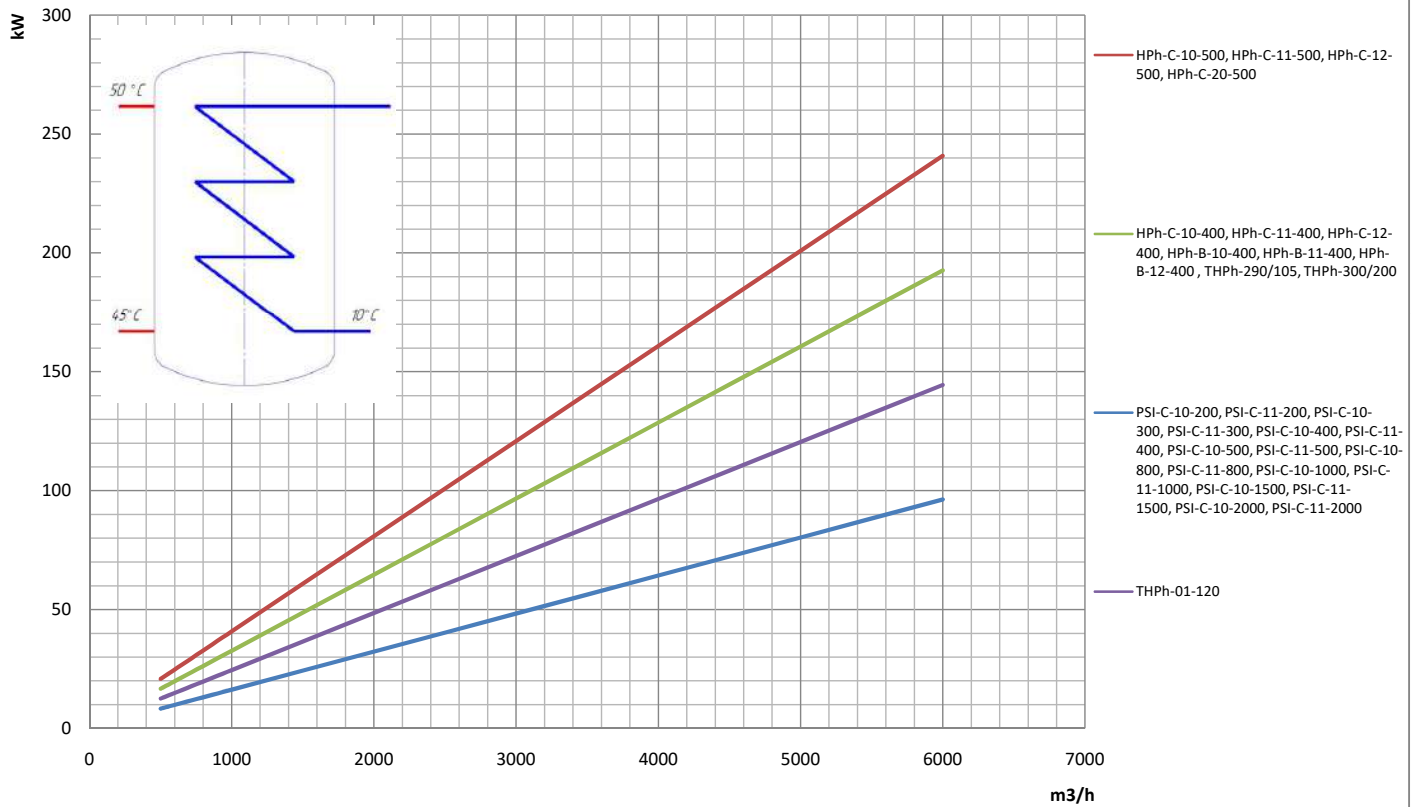
Heat exchanger resistance DN25



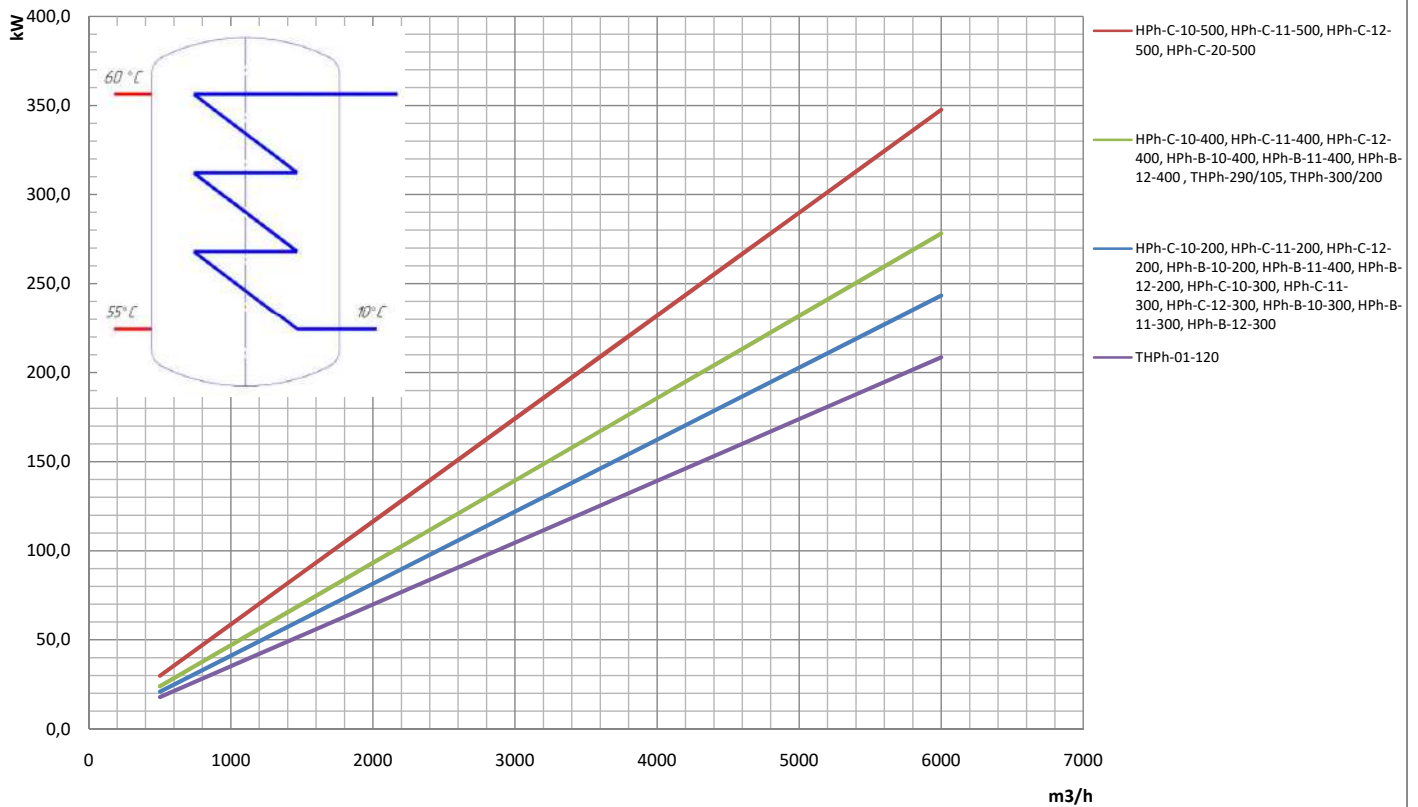
Heat exchanger resistance DN32



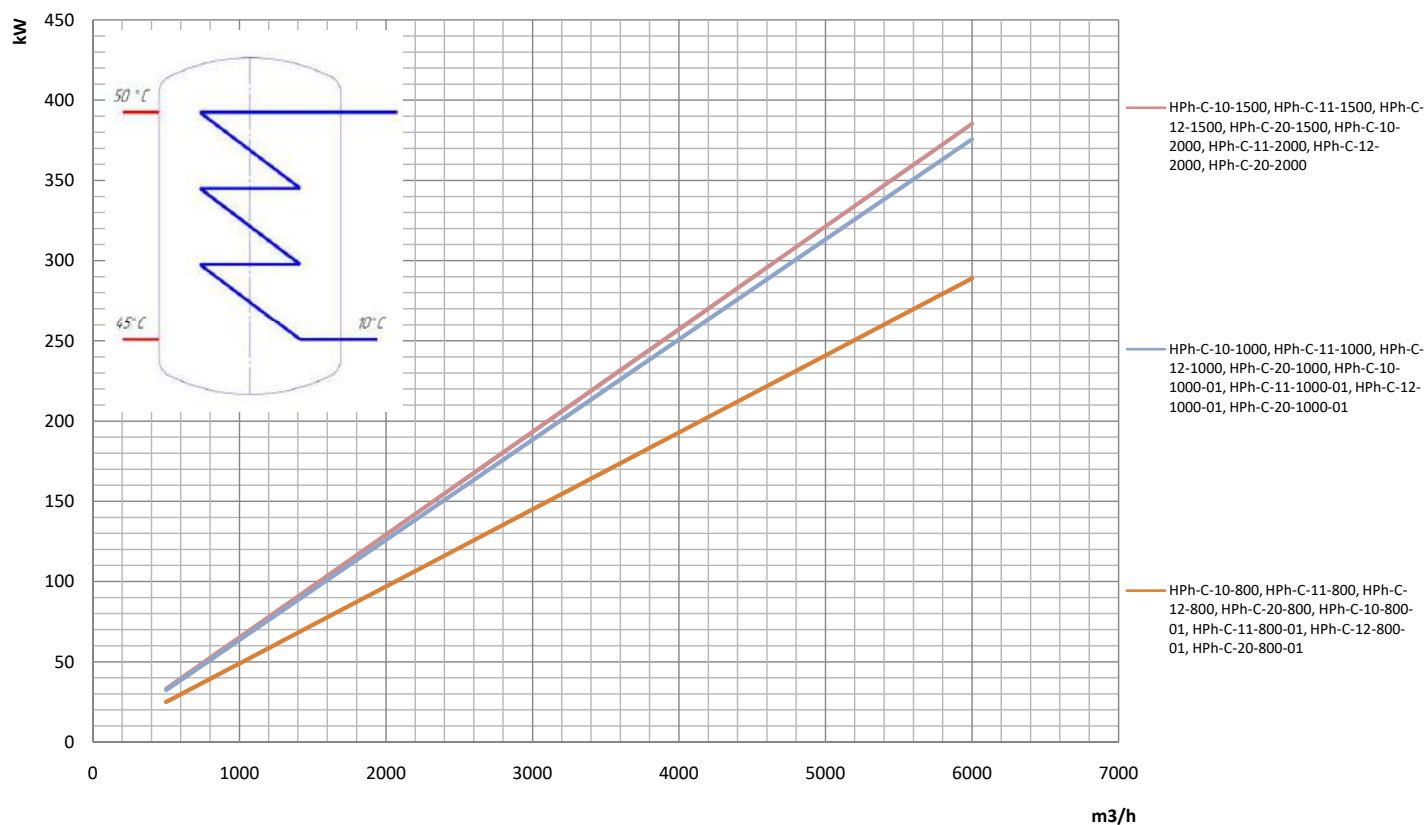
Dependence of the heat exchanger capacity on the consumption of the coolant 50/10/45°C



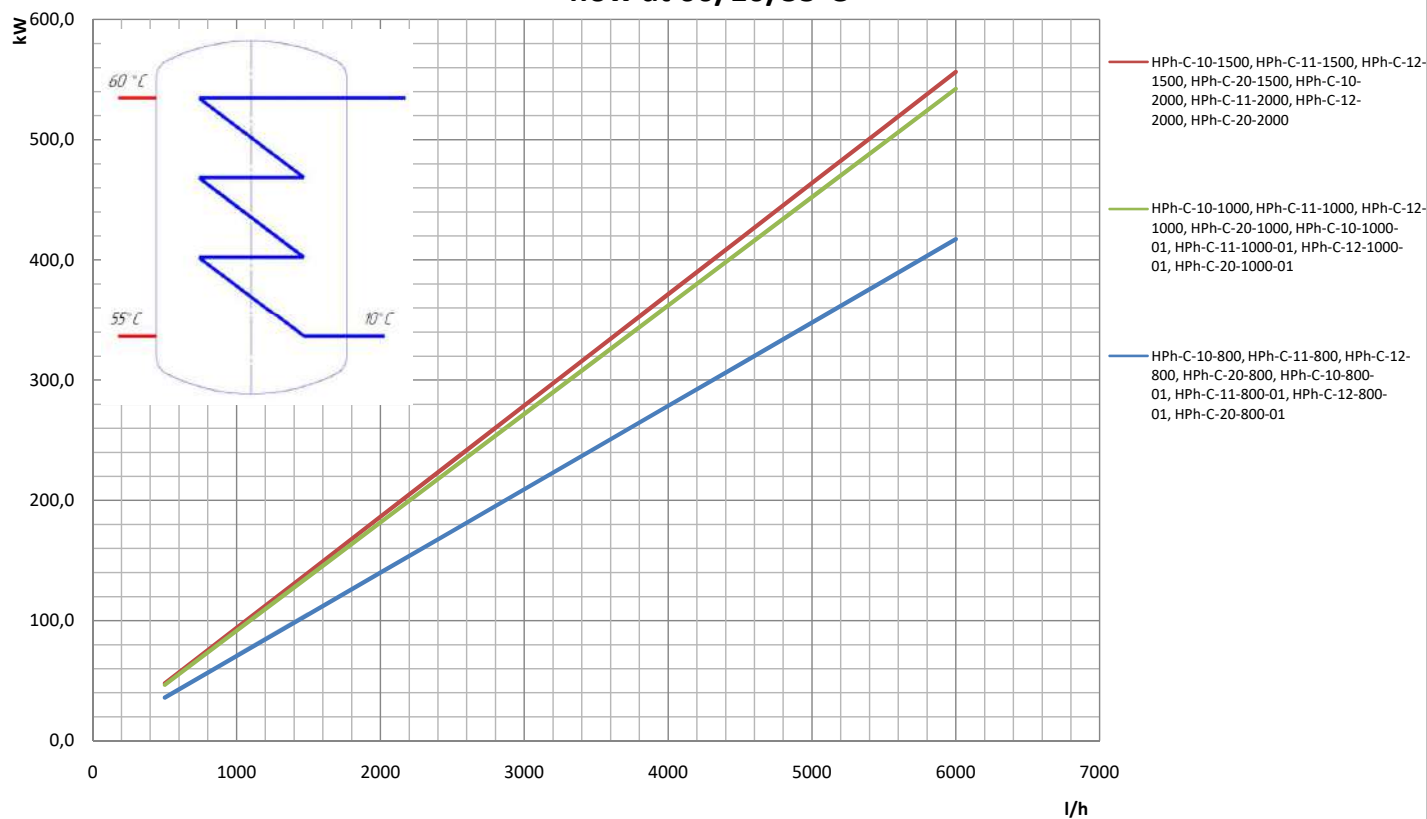
Dependence of the heat exchanger capacity on the consumption of the coolant 60/10/55°C



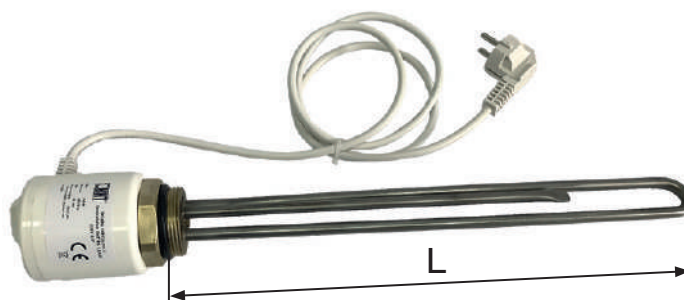
Dependence of the heat exchanger capacity on the consumption of the coolant 50/10/45°C



Heat exchanger performance depending on heating medium flow at 60/10/55°C

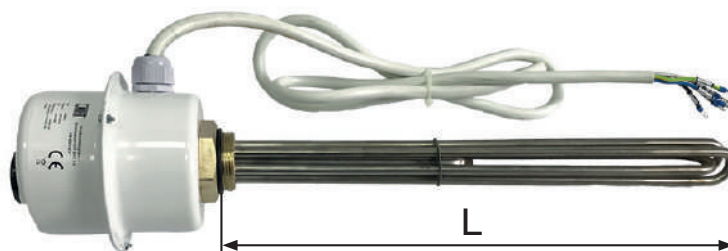


Heating element with KHT RS thermostat



Model / Article	Power, kW	Voltage, V	Temperature control range, °C	Threaded connection, inch	Length of the heating element L, mm	Weight, kg
KHT RS 1,5 kW 230V 6/4"/W150064	1,5	230	23-75	6/4"	360	0,631
KHT RS 1,8 kW 230V 6/4"/W180064	1,8	230	23-75	6/4"	385	0,672
KHT RS 2,0 kW 230V 5/4"/W200054	2,0	230	23-75	5/4"	416	0,631
KHT RS 2,0 kW 230V 6/4"/W200064	2,0	230	23-75	6/4"	412	0,678
KHT RS 3,0 kW 230V 5/4"/W300054	3,0	230	23-75	5/4"	355	0,760
KHT RS 3,0 kW 230V 6/4"/W300064	3,0	230	23-75	6/4"	351	0,812

Heating element with KHT BNR thermostat



Model / Article	Power, kW	Voltage, V	Temperature control range, °C	Threaded connection, inch	Length of the heating element L, mm	Weight, kg
KHT BNR 4,5 kW 400V 6/4"/W450064	4,5	400	0-75 (±5)	6/4"	356	1,891
KHT BNR 6,0 kW 400V 6/4"/W600064	6,0	400	0-75 (±5)	6/4"	442	2,150
KHT BNR 9,0 kW 400V 6/4"/W900064	9,0	400	0-75 (±5)	6/4"	621	2,680
KHT BNR 12,0 kW 400V 6/4"/W1200064	12,0	400	0-75 (±5)	6/4"	665	2,710
KHT BNR 15,0 kW 400V 6/4"/W1500064	15,0	400	0-75 (±5)	6/4"	860	3,043

TU block type heat exchanger is designed to connect heat supply or consumption sources to buffer tanks and water heaters. The heat exchange surface is made of AISI 304 food grade chrome-nickel steel. TUs are available in lengths up to 2 m. The sealing material is EPDM rubber or food grade rubber. TU heat exchangers can be used for PS series buffer tanks.

Marking: heat exchangers

TUx - S

TU - model

x - standard size, x=1 (DU 120), 2 (DU 220), 4 (DU 350)

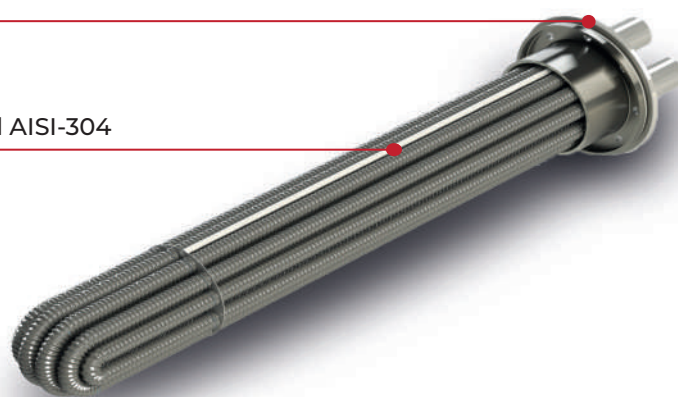
S - heat exchange area

EPDM rubber seal

Heat exchanger made of food grade chrome-nickel steel AISI-304

Maximum operating temperature 100°C

Working pressure 0.6 MPa



Technical specifications of TU2 series heat exchangers

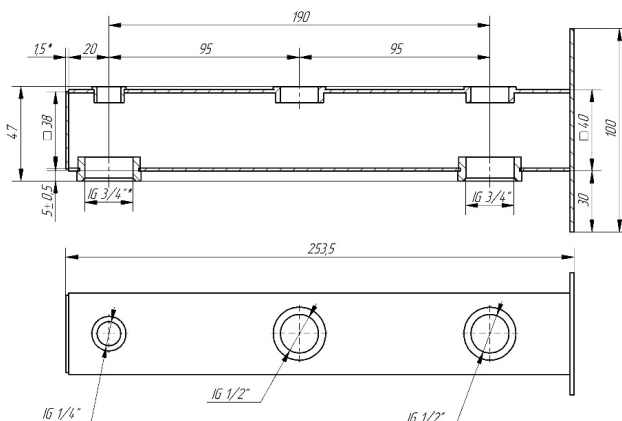
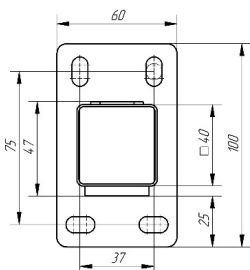
Specifications	Units of measurement	Model						
		1,8	2,1	2,5	2,9	3,4	4,0	4,7
Heat exchange area	m ²	1,75	2,05	2,54	2,87	3,36	4,01	4,67
Length L	mm	620	720	850	990	1150	1350	1580
Flange diameter D	mm	312						
Distance between the pipes a	mm	123						
Connecting pipes	inch	5/4						
Inner diameter d	mm	220						

Technical specifications of TU4 series heat exchangers

Specifications	Units of measurement	Model							
		3,6	4,3	5,4	6,1	7,1	8,6	10,0	10,5
Heat exchange area	m ²	3,64	4,28	5,35	6,06	7,13	8,56	9,98	10,5
Length L	mm	600	700	850	950	1090	1300	1500	1560
Flange diameter D	mm	442							
Distance between the pipes a	mm	200							
Connecting pipes	inch	2							
Inner diameter d	mm	360							

The safety groups are used in closed heating systems and are designed to protect them from exceeding the maximum permissible operating pressure and automatic venting. A console with holes for further mounting of the safety elements can be supplied separately.

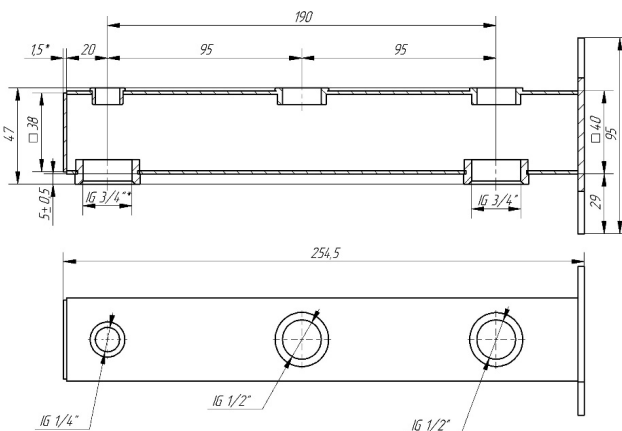
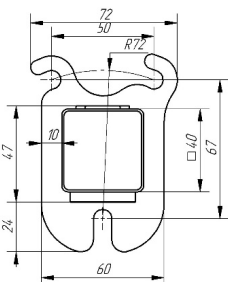
Steel safety group beams



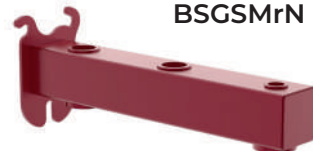
BSGSMr



BSGSMb



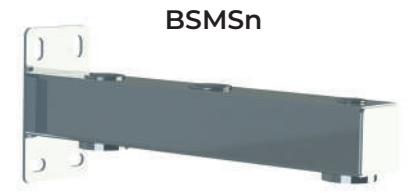
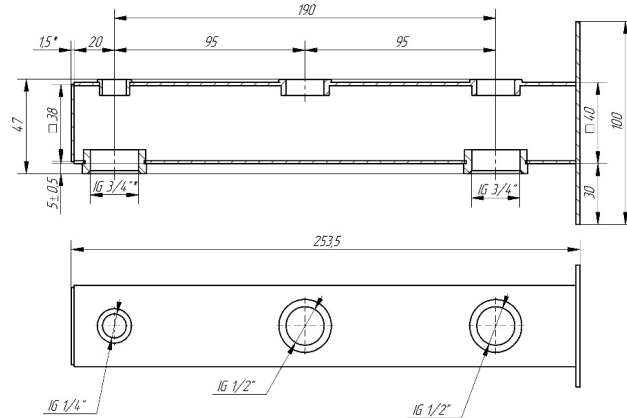
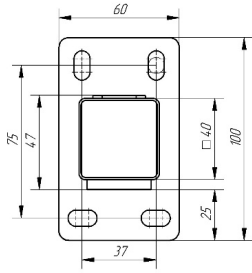
BSGSMrN



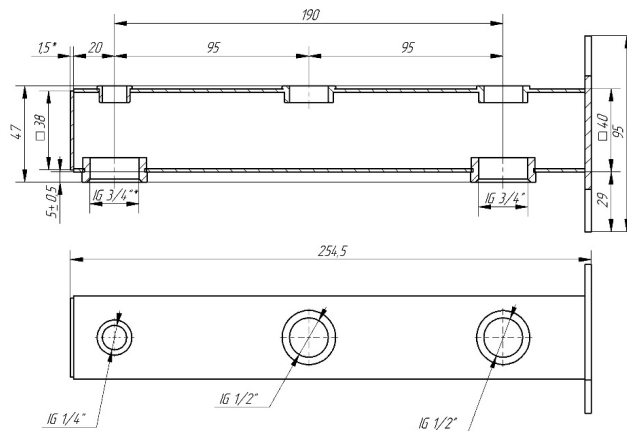
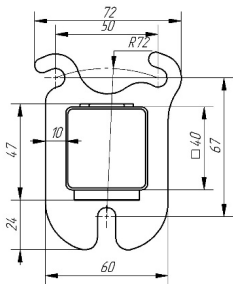
BSGSMbN

Specifications	Units of measurement	Nominal volumes/ Article			
		BSGSMr	BSGSMb	BSGSMrN	BSGSMbN
Working pressure	MPa	up to 0,6	up to 0,6	up to 0,6	up to 0,6
Operating temperature	°C	+5...+95	+5...+95	+5...+95	+5...+95
Pressure relief valve	"	1/2	1/2	1/2	1/2
Automatic air vent	"	1/2	1/2	1/2	1/2
Connection nozzles to the system	"	3/4	3/4	3/4	3/4
Pressure gauge	"	1/4	1/4	1/4	1/4
Net weight	kg	0,61	0,61	0,63	0,63
Color		red	blue	red	blue
Material		Steel S235JR, powder coating (anti-corrosion)			
Box size	mm	260*165*90			
Quantity per pallet	item	500			

Stainless steel safety group beam



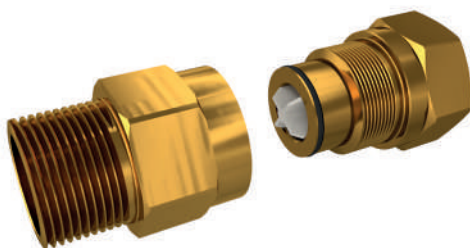
BSMSn



BSMSnN

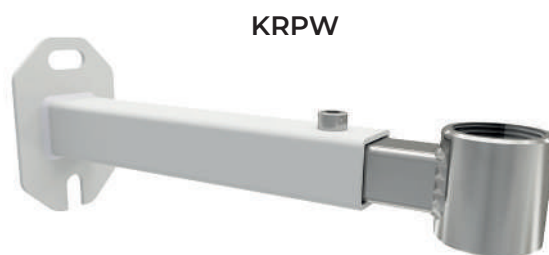
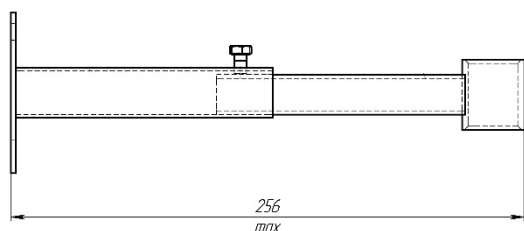
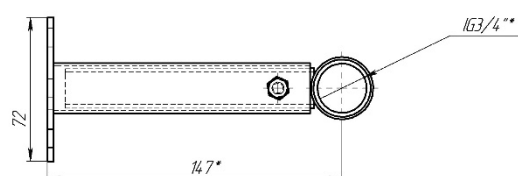
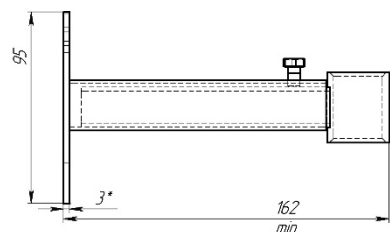
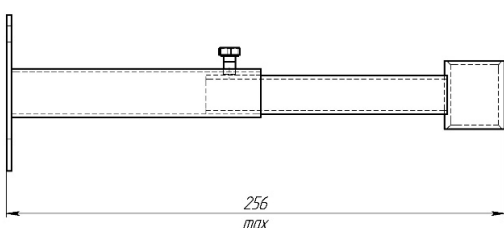
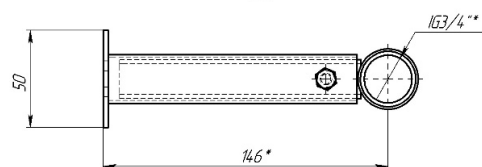
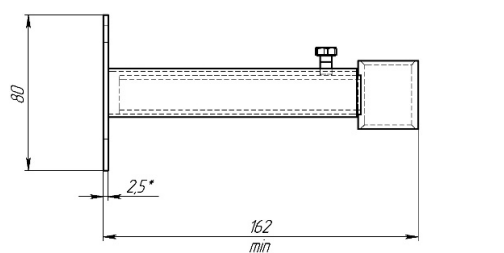
Specifications	Units of measurement	Nominal volumes/ Article	
		BSMSn	BSMSnN
Working pressure	MPa	up to 0,6	up to 0,6
Operating temperature	°C	+5...+95	+5...+95
Pressure relief valve	"	1/2	1/2
Automatic air vent	"	1/2	1/2
Connection nozzles to the system	"	3/4	3/4
Pressure gauge	"	1/4	1/4
Net weight	kg	0,61	0,63
Box size	mm	260*165*90	
Quantity per pallet	item	500	

Connector with valve EVC 3/4x3/4

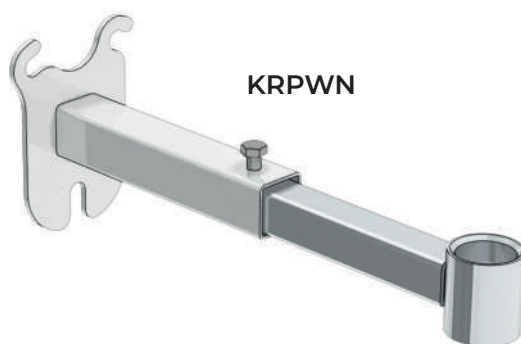
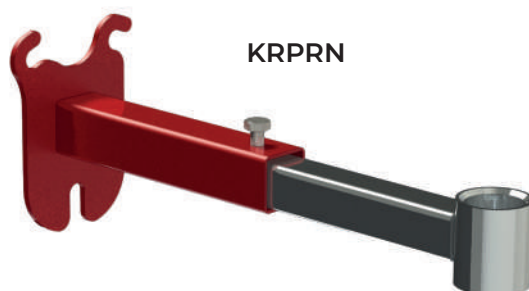


The EVC (extension vessel connector) is used to connect membrane tanks. The valves allow for the replacement of the device without the need to drain the coolant

Telescopic expansion vessel attachment

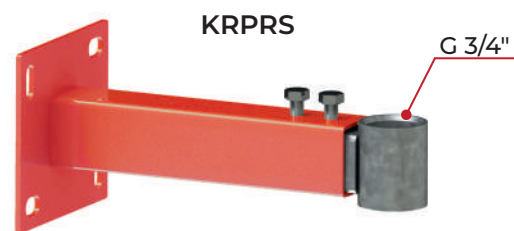
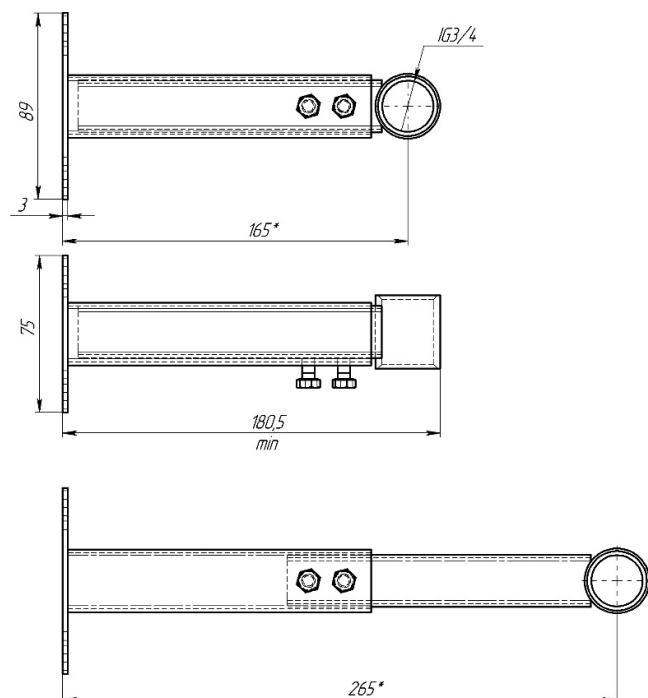


Length range 145-245 mm



Specifications	Units of measurement	Nominal volumes/ Article			
		KRPR	KRPW	KRPRN	KRPWN
Mounting pipe	"	3/4	3/4	3/4	3/4
Net weight	kg	0,41	0,41	0,46	0,46
Maximum possible load	kg	35	35	65	65
Color		red	white	red	white
Material		Steel S235JR, powder coating (anti-corrosion)			
Box size	mm	180*80*50			
Quantity per pallet	item	500			

Telescopic expansion vessel attachment reinforced



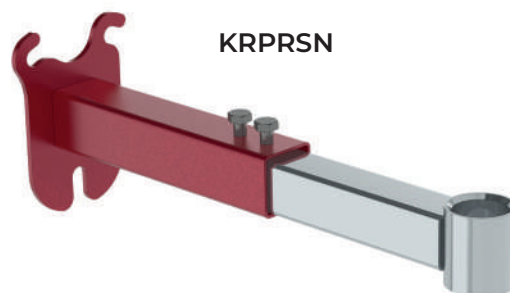
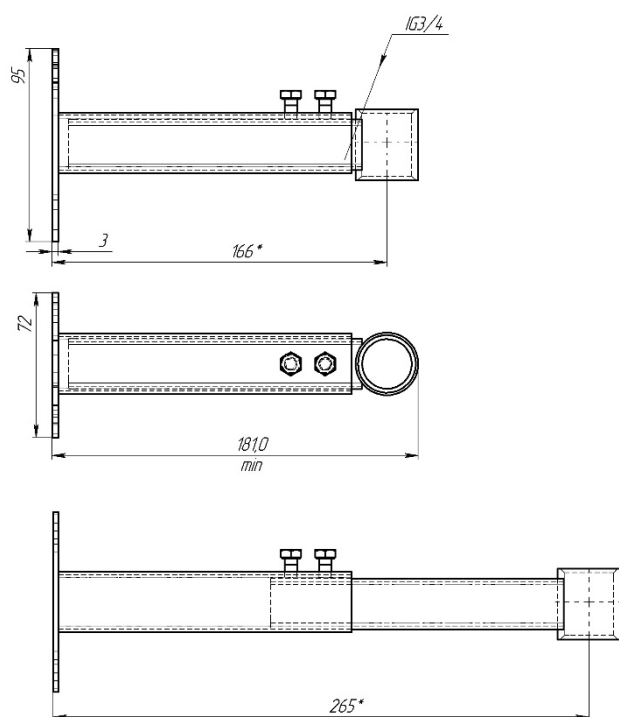
KRPRS

G 3/4"

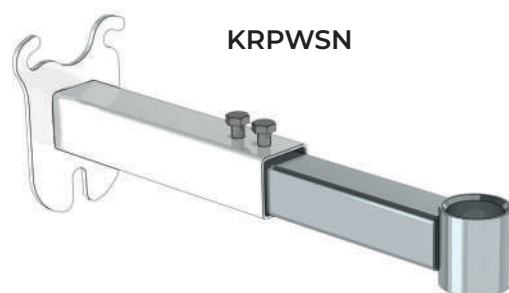


KRPWS

Length range 165-270 mm



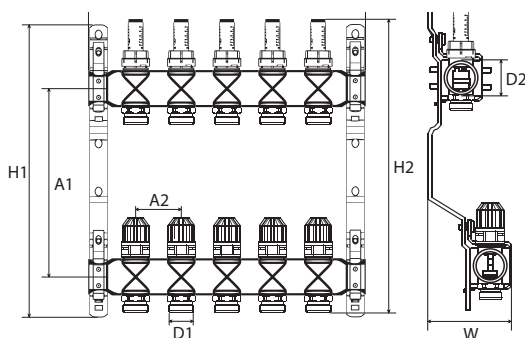
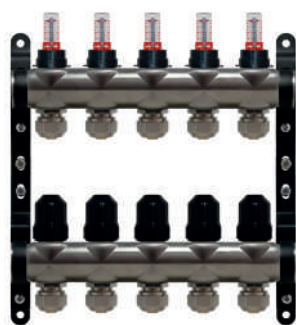
KRPRSN



KRPWSN

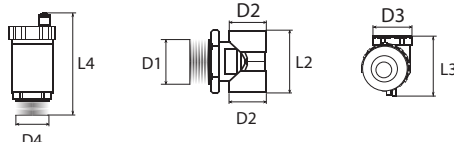
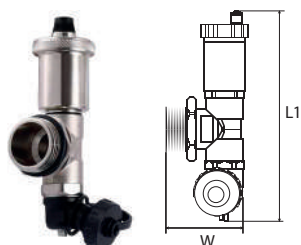
Specifications	Units of measurement	Nominal volumes/ Article			
		KRPRS	KRPWS	KRPRSN	KRPWSN
Mounting pipe	"	3/4	3/4	3/4	3/4
Net weight	kg	0,55	0,55	0,54	0,54
Maximum possible load	kg	65	65	65	65
Color		red	white	red	white
Material		Steel S235JR (St 08 kp, DD11) and St3 ps, powder coating (anti-corrosion)			
Box size	mm	215*105*80			
Quantity per pallet	item	500			

Stainless steel collectors and their components



Materials	AISI 304, CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Flowmeter	0-5 l/min
Fastening	Steel

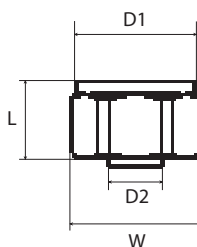
Contours	Article	D1	D2	Inox KHT manifolds with RI-VT flowmeters								Weight (kg)	
				L	W	A2	A1		H1		H2		
							min.	max.	min.	max.	min.		max.
2	RI-VT-02	3/4 "	1"	130	92	50	172	232	310	370	285	345	1,33
3	RI-VT-03			180									1,72
4	RI-VT-04			230									2,15
5	RI-VT-05			280									2,47
6	RI-VT-06			330									2,75
7	RI-VT-07			380									3,33
8	RI-VT-08			430									3,72
9	RI-VT-09			480									4,12
10	RI-VT-10			530									4,50
11	RI-VT-11			580									4,92
12	RI-VT-12			630									5,27



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	yes
Pressure test	yes

Drain group Nickel KHT DN-KTP / DN-KTP

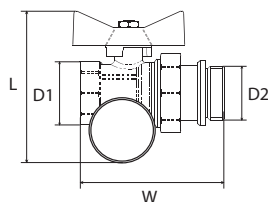
Indicators in mm					Measurements in inches			
W	L1	L2	L3	L4	D1	D2	D3	D4
53	145	42	49	70	1"	1/2"	1/2"	1/2"



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	yes
Pressure test	yes

Eurocone Nickel KHT 3/4 x16 / EC-N-16

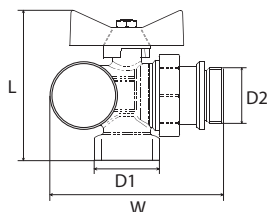
Indicators in mm			Measurements in inches
D2	W	L	D1
16	29	19	3/4"



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	yes
Pressure test	yes

American faucet Nickel KHT 1' straight with gasket + thermometer blue/red

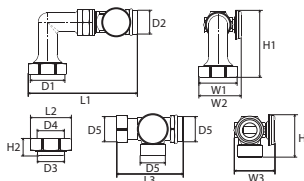
Article (blue) : VAP-N-1P-B		Article (red) : VAP-N-1P-R	
Indicators in mm		Measurements in inches	
W	L	D1	D2
88	93	1"	1"



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	yes
Pressure test	yes

American faucet Nickel KHT 1' angle with gasket + thermometer blue/red

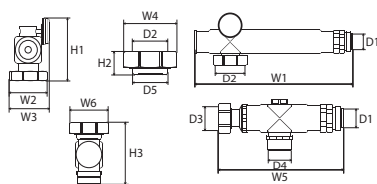
Article (blue) : VAK-N-1P-B				Article (red) : VAK-N-1P-R	
Indicators in mm		Measurements in inches			
W	L	D1	D2		
103	89	1	1		



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	yes
Pressure test	yes

Nickel KHT pump group without kit / GP-N-B

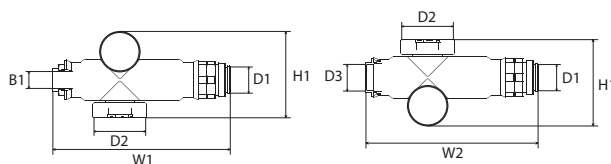
Indicators in mm									Measurements in inches				
L1	L2	L3	H1	H2	H3	W1	W2	W3	D1	D2	D3	D4	D5
151	53	87	84	23	55	53	58	53	1 1/2"	1"	1"	1 1/2"	1"



Materials	AISI 304
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

Inox KHT pump group without kit / GP-I-B

Indicators in mm									Measurements in inches				
W1	W2	W3	W4	W5	W6	H1	H2	H3	D1	D2	D3	D4	D5
260	55	58	53	170	56	95	23	93	1"	1 1/2"	1"	1"	1"

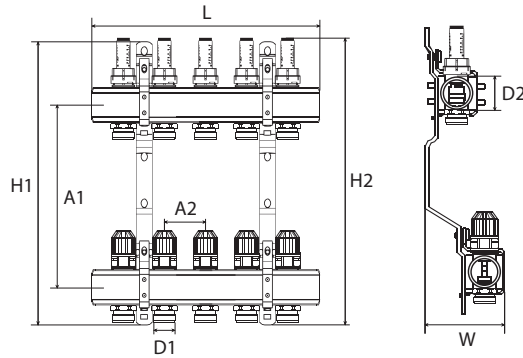


Materials	AISI 304
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

Connector Inox KHT / KP-I-B

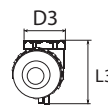
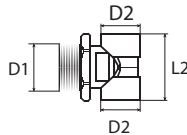
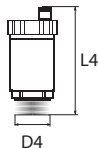
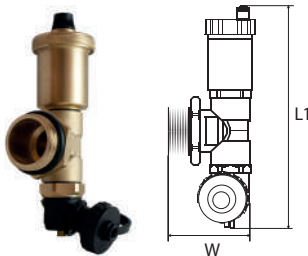
Indicators in mm			Measurements in inches			
W1	W2	H1	B1	D1	D2	D3
174,5	169,5	85	16,5	1"	1 1/2"	3/4"

Brass manifolds and their components



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Flowmeter	0-5 l/min
Fastening	Steel

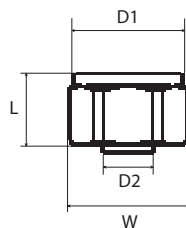
Contours	Article	D1	D2	Brass KHT manifolds with RB-VT flowmeters								Weight (kg)	
				L	W	A2	A1		H1		H2		
							min.	max.	min.	max.	min.		max.
2	RB-VT-02	3/4 "	1"	105	92	50	172	232	310	370	285	345	1,60
3	RB-VT-03			155									2,16
4	RB-VT-04			205									2,72
5	RB-VT-05			255									3,28
6	RB-VT-06			305									3,84
7	RB-VT-07			355									4,40
8	RB-VT-08			405									4,96
9	RB-VT-09			455									5,52
10	RB-VT-10			505									6,08
11	RB-VT-11			555									6,64
12	RB-VT-12			605									7,20



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

Drain group Brass KHT / DB-KTP

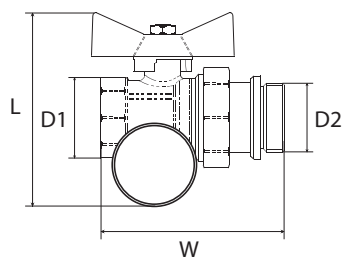
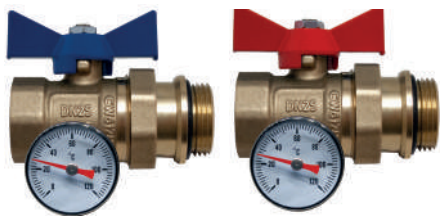
Indicators in mm					Measurements in inches			
W	L1	L2	L3	L4	D1	D2	D3	D4
53	145	42	49	70	1"	1/2"	1/2"	1/2"



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

Eurocone Brass KHT 3/4 x16 / EC-B-16

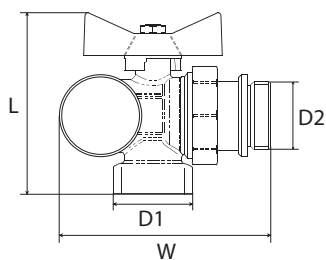
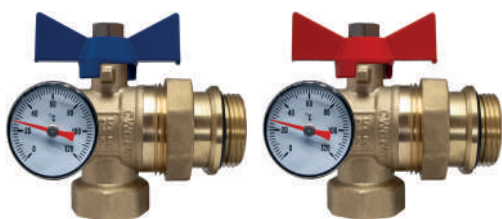
Indicators in mm			Measurements in inches	
D2	W	L	D1	
16	29	19	3/4"	



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

American faucet Brass KHT 1" straight with gasket + thermometer blue/red

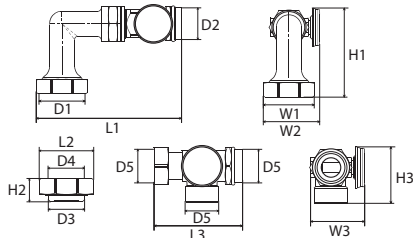
Article (blue) : VAP-B-1P-B		Article (red) : VAP-B-1P-R	
Indicators in mm		Measurements in inches	
W	L	D1	D2
88	93	1"	1"



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

American faucet Brass KHT 1" angle with gasket + thermometer blue/ red

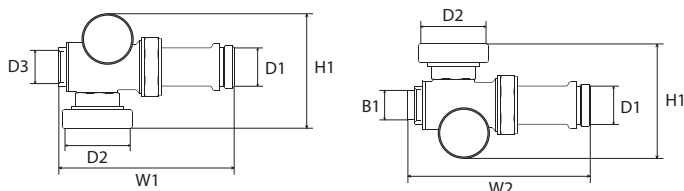
Article (blue) : VAK-B-1P-B		Article (red) : VAK-B-1P-R	
Indicators in mm		Measurements in inches	
W	L	D1	D2
103	89	1"	1"



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

Brass KHT pump group without kit / GP-B-B

Indicators in mm									Measurements in inches				
L1	L2	L3	H1	H2	H3	W1	W2	W3	D1	D2	D3	D4	D5
151	53	87	84	23	55	53	58	53	1 1/2"	1"	1"	1 1/2"	1"



Materials	CW617N
Temperature	up to 90°
Working pressure	up to 10 bar
Nickel	no
Pressure test	yes

Connector Brass KHT / KP-B-B

Indicators in mm				Measurements in inches		
W1	W2	H1	B1	D1	D2	D3
136	140,5	90	16,5	1"	1 1/2"	3/4"

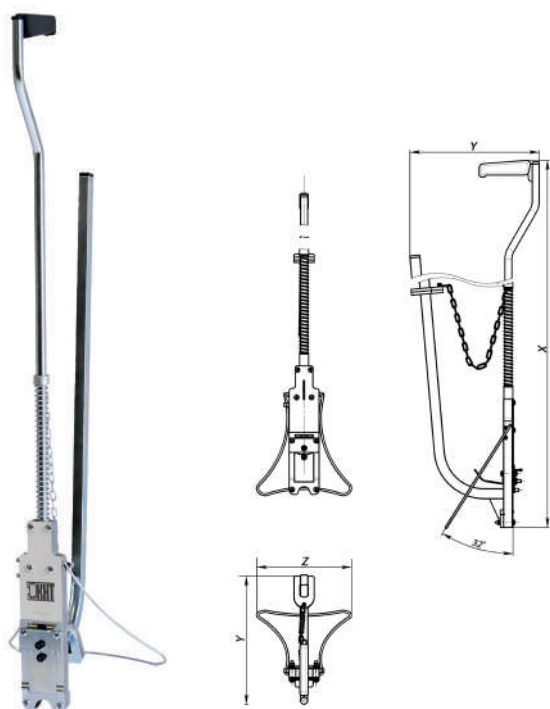
Tackers

A tacker is an ergonomic device used for quick installation of pipe mounting brackets in underfloor heating systems. The aluminium tackers are available in two models and operate with all popular brackets on the market with a length of 40-60 mm. The tackers have an adjustment system that protects the clamps from falling out and allows you to adjust the force of the arm returning to the base position and an inspection window for monitoring the clamp.

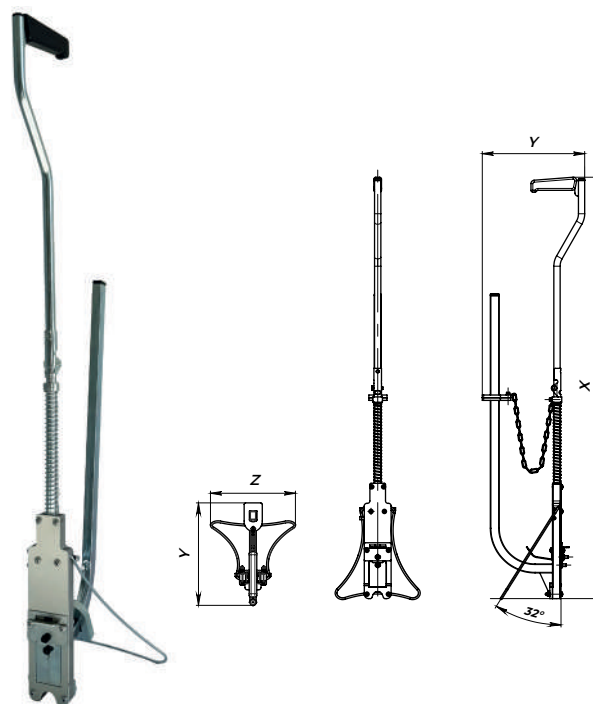
Advantages of using a tacker:

- short installation time of underfloor heating, which increases efficiency and comfort of work;
- complete reliability of the device;
- high accuracy of work;
- ease of use;
- robust construction and use of high quality materials ensure long service life and resistance to damage.

Tacker TK-100 with solid handle



RZ Tacker with folding handle



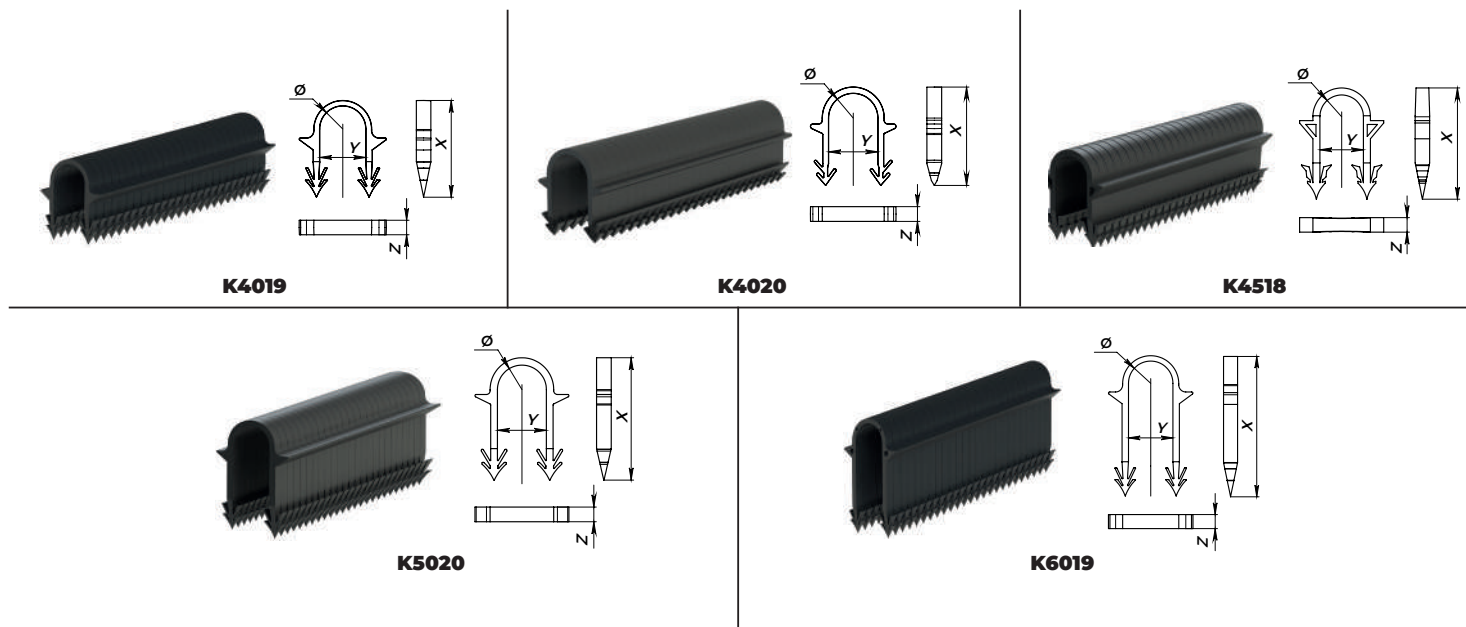
Tacker	Article	Height X, mm	Length Y, mm	Width Z, mm	Net weight, kg	Box size, mm	Quantity of pieces per pallet
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Tacker TK-100	TK-100	903	259	190	1,7	870*260*85	100
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Tacker RZ	RZ	900	240	190	1,8	610*270*90	100
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Clamps

Clamps are used to fasten the underfloor heating pipe to the insulating layer of expanded polystyrene. Depending on the thickness and density of the expanded polystyrene heat insulation layer, the appropriate length and method of attachment clamps are used. The precise installation allows for any pipe direction, and the possibility of thickening the staples ensures that the pipe is securely attached to the insulation when the screed is poured.



Clamps to the taker

Model Article	Pipe diameter, mm	Dimensions X/Y/Z, mm	Weight of the products in the package, kg	Quantity in package, pcs	Box size, mm
K4019	14 - 20	40x19x6	0.42	300	170*160*115
K4020	14 - 20	40x20x6	0.42	300	160*120*133
K4518	14 - 20	45x18x6	0.51	300	160*150*135
K5020	14 - 20	50x20x6	0.51	300	160*150*135
K6019	14 - 20	60x19x6	0.57	300	160*185*135

Clamps for manual installation

Model Article	Pipe diameter, mm	Dimensions X/Y/Z, mm	Weight of the products in the package, kg	Quantity in package, pcs	Box size, mm
K4019R	14 - 20	40x19x6	3.04	1600	600*200*165
K4518R	14 - 20	45x18x6	3.04	1600	600*200*165
K5020R	14 - 20	50x20x6	3.04	1600	600*200*165
K6019R	14 - 20	60x19x6	3.04	1600	600*200*165

Advantages:

- quick and easy fastening of underfloor heating pipes to the polystyrene insulation layer, which makes installation of underfloor heating easier and shorter;
- clamps adapted to work with tackers;
- high-strength material that is resistant to compression, breaking and cracking;
- clamps are flexible, so they do not break during installation.

Uncoilers are used to quickly unwind pipes in coils during the installation of floor heating system. This equipment facilitates and speeds up the work of the installer and significantly increases the comfort of work. The pipe placed on the uncoiler does not get tangled or kinked. Thanks to its easy installation and dismantling, the uncoiler can be moved from one place to another.

Pipe uncoiler KHT PD-200

Inner diameter from 230 mm

- Quick assembly/disassembly
- Maximum weight of the coil 80 kg
- Maximum height of the coil 430 mm
- Maximum outer diameter of the coil 990 mm
- Box size: 600*200*195 mm
- There are 50 pieces per pallet

Article : PD-200

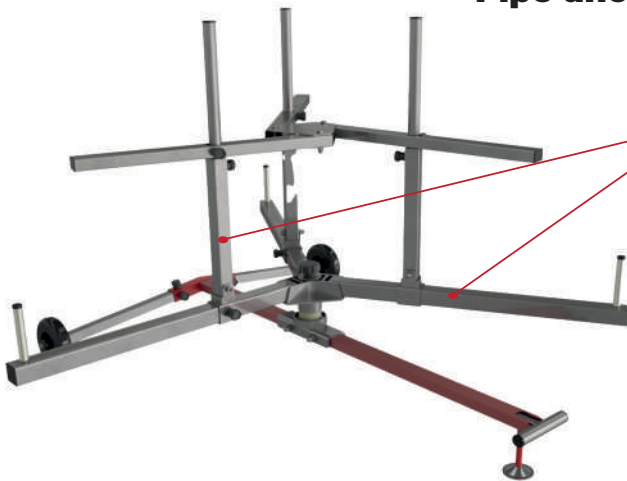


Pipe uncoiler KHT PD-300

Inner diameter from 340 mm

- Quick assembly/disassembly
- Maximum weight of the coil 80 kg
- Maximum height of the coil 440 mm
- Maximum outer diameter of the coil 1010 mm
- Box size: 600*200*195 mm
- There are 50 pieces per pallet

Article : PD-300



Pipe uncoiler KHT PD-500

Adjustable internal diameter: 525 mm

- Quick assembly/disassembly
- Maximum weight of the coil 100 kg
- Maximum height of the coil 440 mm
- Maximum outer diameter of the coil 1170 mm
- Box size: 670*265*220 mm
- There are 30 pieces per pallet

Article : PD-500



Pipe uncoiler KHT PD-700

- Maximum weight of the coil 80 kg
- Maximum height of the coil 620 mm
- Maximum outer coil diameter: 960 mm
- Minimum inner diameter of the coil 300 mm
- Box size: 1200*1000*160 mm
- There are 10 pieces per pallet

Article : PD-700



Pipe uncoiler KHT PD-800

- Quick assembly/disassembly
- Maximum weight of the coil 80 kg
- Maximum height of the coil 430 mm
- Maximum outer diameter of the coil 990 mm
- Minimum inner diameter of the coil 200 mm
- Box size: 670*265*260 mm
- There are 30 pieces per pallet

Article : PD-800



Pipe uncoiler KHT PD-900

Adjustable inner diameter from 350 mm

- Maximum weight of the coil 80 kg
- Maximum height of the coil 635 mm
- Maximum outer diameter of the coil 975 mm
- Box size: 670*265*260 mm
- There are 30 pieces per pallet

Article : PD-900



Pipe uncoiler KHT PD-1100



- Maximum weight of the coil 80 kg
- Maximum height of the coil 440 mm
- Maximum outer diameter of the coil 960 mm
- Minimum inner diameter of the coil 190 mm
- Box size: 600*190*160 mm
- There are 68 pieces per pallet

Article : PD-1100

Pipe uncoiler KHT PD-1200

- Maximum weight of the coil 80 kg
- Maximum height of the coil 430 mm
- Maximum outer diameter of the coil 975 mm
- Minimum inner diameter of the coil 230 mm
- Box size: 600*200*195 mm
- There are 50 pieces per pallet

Article : PD-1200



Pipe uncoiler KHT PD-1300



- Quick assembly/disassembly
- Maximum weight of the coil 120 kg
- Maximum height of the coil 830 mm
- Maximum outer diameter of the coil 1700 mm
- Maximum inner diameter of the coil 740 mm
- Minimum inner diameter of the coil 240 mm
- Box size: 1020*410*240 mm
- There are 10 pieces per pallet

Article : PD-1300

*The manufacturer reserves the right to change the technical data given in the tables.

NOTES

[illegible]

NOTES

[illegible]





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DISTRIBUTOR:

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