

**DESIGNED FOR HEAT ACCUMULATION
IN HEATING SYSTEMS AND DHW PRODUCTION**

TECHNICAL DESCRIPTION

The storage tank is engineered to accumulate thermal energy from various heat sources. The DHW heat exchanger is positioned in the upper part of the tank, enabling the use of the highest-temperature heat transfer fluid for rapid and efficient heating of DHW in the quantities required by the consumer.

MATERIAL

The tank is constructed from S235JR (DIN 1.0038) carbon structural steel. The external coating provides enhanced resistance to mechanical impacts and aggressive environments.

HEAT EXCHANGERS

The DHW heat exchanger is manufactured from AISI 304L (DIN 1.4307) stainless steel.

WARRANTY

5 years

THERMAL INSULATION

PL/PVC – 100 mm polyester insulation encased in zippered PVC fabric

PU/PVC – 90 mm flexible polyurethane foam insulation encased in PVC fabric secured with straps.

PL/ABS – 100 mm polyester insulation encased in ABS plastic with plastic latches

PS/ABS – 100 mm high-efficiency rigid graphite-expanded polystyrene insulation encased in ABS plastic. Premium-class insulation, fully compliant with **ErP 2009/125/EC Directive** requirements



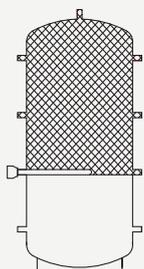
Tank		DHW Coil	
P	T	P	T
3 bar	95°C	6 bar	95°C

Model	V tank, l	DHW Coil		Energy efficiency class of insulation*
		S coil 2, m²	V coil 2, l	
400	413	1,4	10	B
		2,2	15	
500	483	1,55	11	B
		2,1	15	
		3,1	22	
		3,8	27	
750	773	1,55	14	C
		2,3	21,5	
		3,1	28,5	
		3,9	35,5	
1000	1008	4,6	42,5	C
		1,99	18	
		2,9	27	
		3,85	36,5	
1500	1449	4,8	45,5	C
		5,7	45,5	
		2,3	22	
		3,45	32,5	
2000	2158	4,56	43,5	C
		5,7	54,5	
		6,9	65	
		2,3	22	

*Energy efficiency class specified for PS/ABS insulation

CUSTOM DRAW

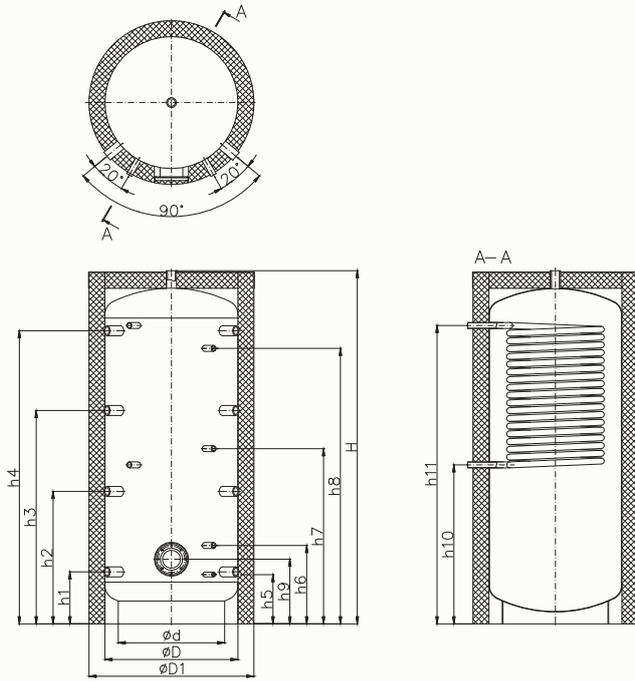
Design and production of water heaters tailored to customer specifications are available, including modifications to dimensions, connection configurations, and heat exchanger parameters.

ACCESSORIES

Electric heat elements

Model	Heating zone volume, liters	2 kW	3 kW	4,5 kW	6 kW	7,5 kW	9 kW	12 kW	15 kW	
		1-220		3-400						
		Heating time for $\Delta T=20^\circ$, minutes								
400	212	148	98	66	49	39	33	-	-	
500	314	219	146	97	73	58	49	-	-	
750	500	348	232	155	116	93	77	58	-	
1000	650	453	302	201	151	121	101	75	60	
1500	926	645	430	287	215	172	143	108	86	
2000	1370	954	636	434	318	255	212	159	127	



For alternative mounting of the electric heat element, a flange adapter is used

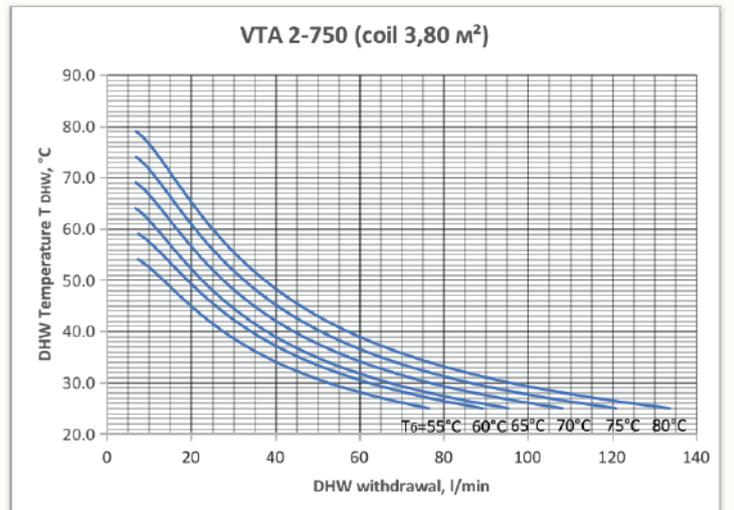
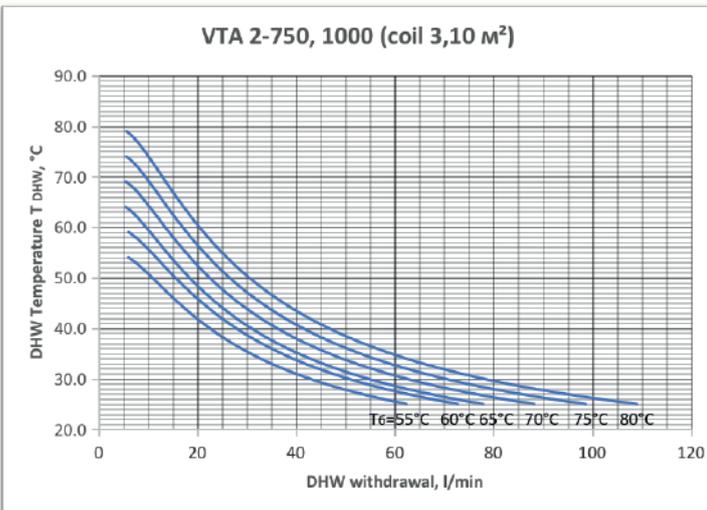
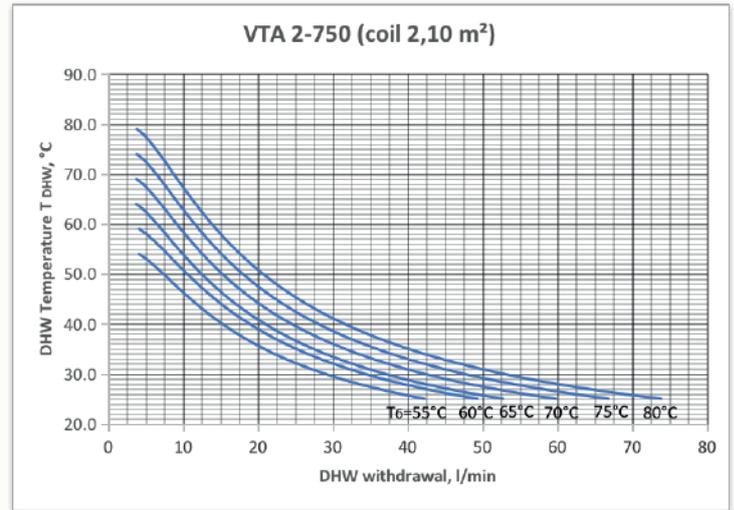
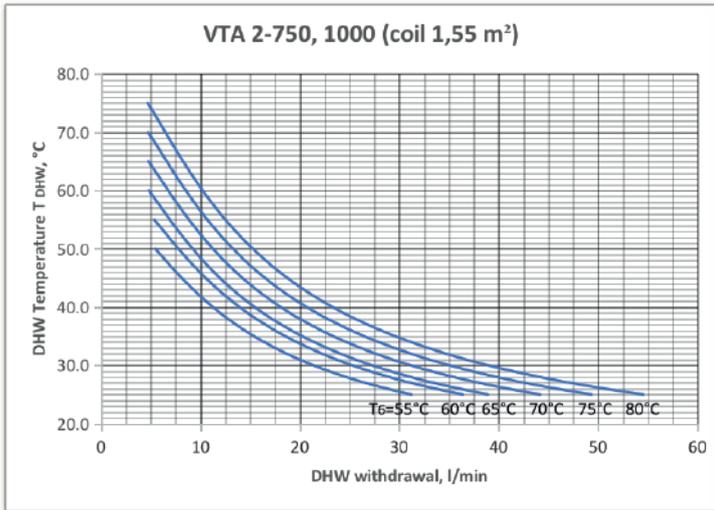
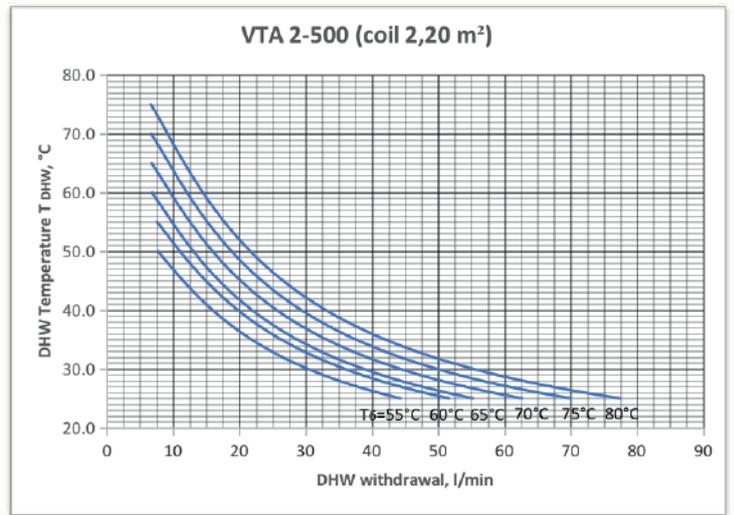
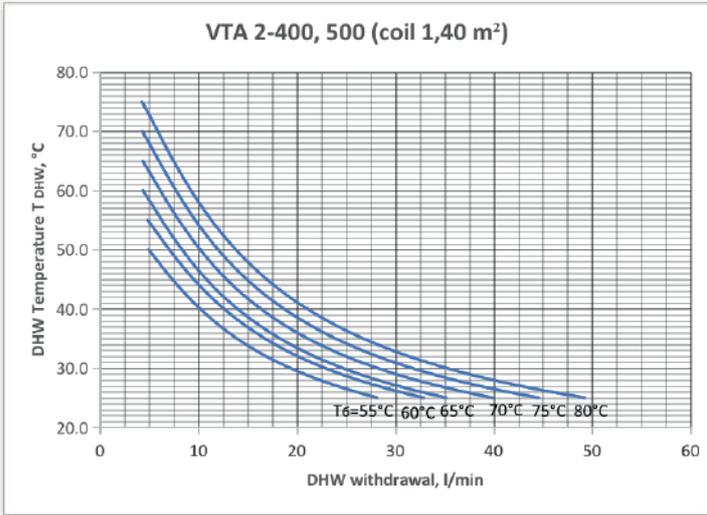
DIMENSIONS AND CONNECTION

DESIGNATION

- H, h1-h4** Connection of supply and return mains of heating circuits
- h5** Process connection
- h6-h8** Temperature sensor connections
- h9** Flange, Ø120 mm
- h10-h11** Connections of cold and hot water pipelines (Coil 2 - upper heat exchanger)

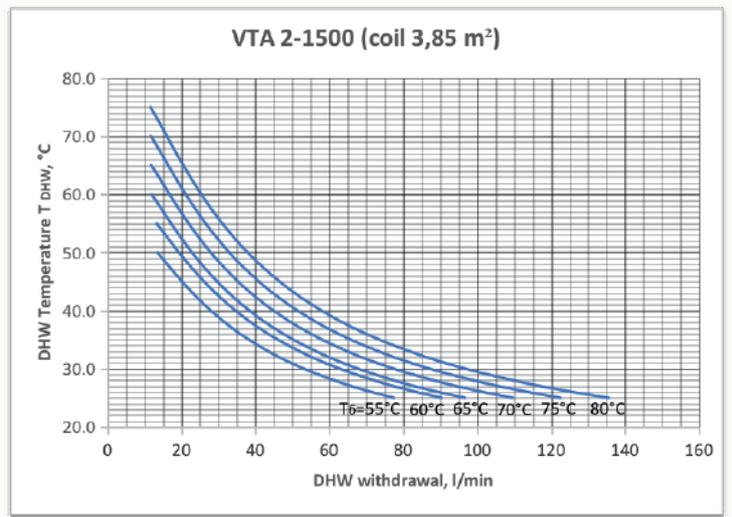
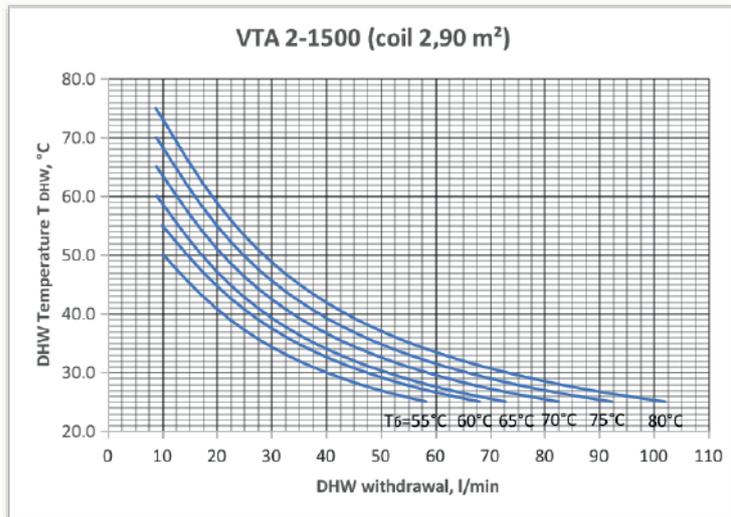
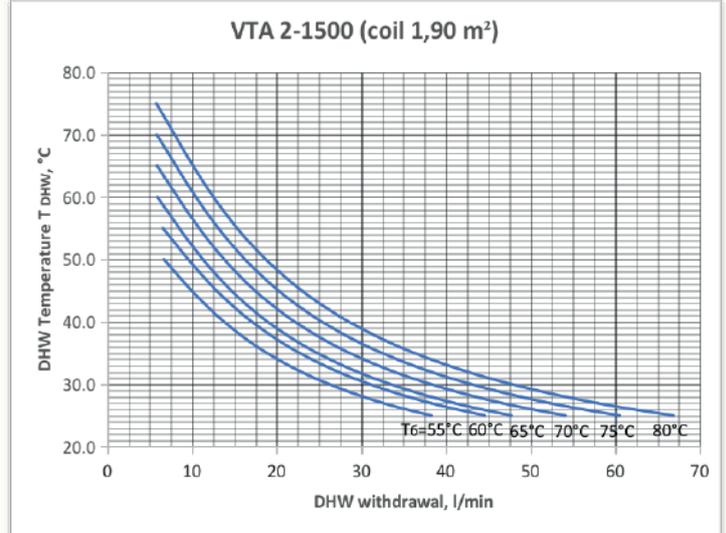
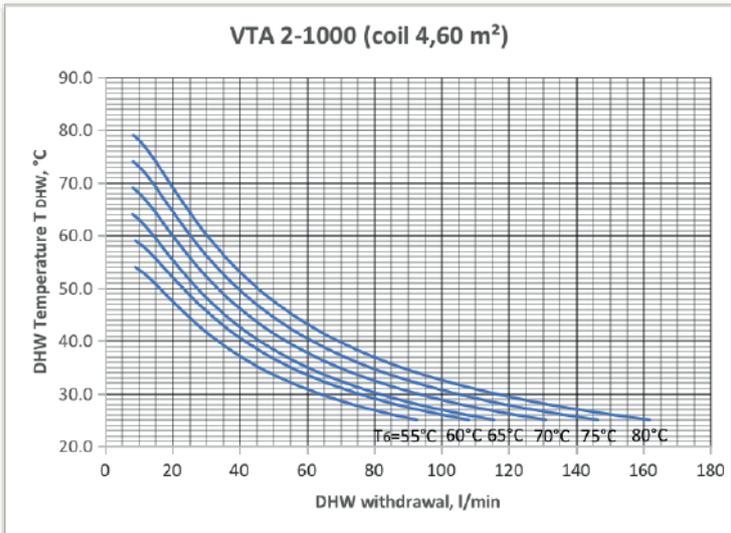
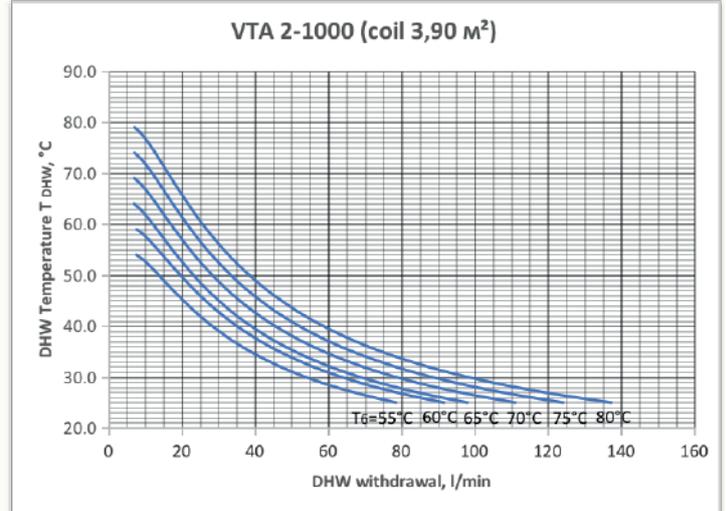
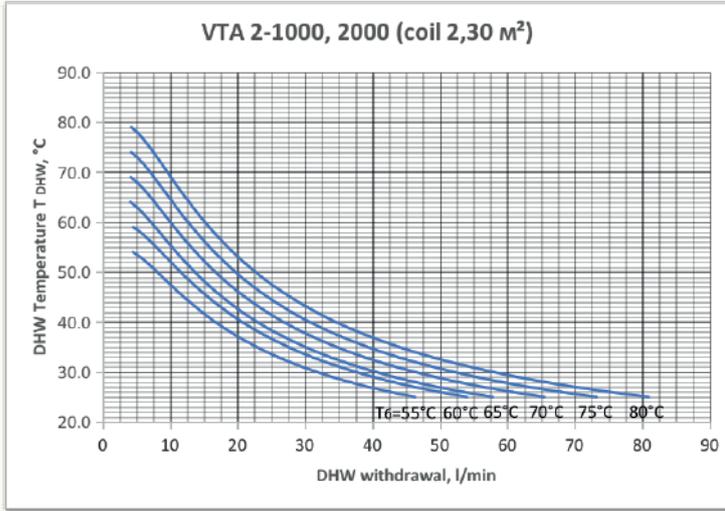
Model	S coil 2, m ²	Dimensions, mm				Connection sizes, mm										
		ØD1	ØD	Ød	H	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11
400	1,4	800	600	450	1700	264	834	-	1406	249	414	-	1256	336	930	1414
					1 1/2"		1 1/2"			1/2"		3/4"			1"	
500	1,4	800	600	450	1995	264	721	1181	1634	249	414	964	1534	336	1180	1664
	2,2															872
					1 1/2"		1 1/2"			1/2"		3/4"			1"	
750	1,55	950	750	600	2010	295	752	1212	1665	280	445	995	1565	367	1299	1695
	2,1														1167	
	3,1														903	
	3,8														903	
					1 1/2"		1 1/2"			1/2"		3/4"			1"	
1000	1,55	1050	850	700	2060	323	780	1240	1693	308	473	1023	1593	395	1419	1719
	2,3														1269	
	3,1														1119	
	3,9														969	
	4,6														819	
					1 1/2"		1 1/2"			1/2"		3/4"			1 1/4"	
1500	1,99	1200	1000	850	2150	368	825	1285	1738	353	518	1068	1638	440	1464	1764
	2,9														1314	
	3,85														1164	
	4,8														1014	
	5,7														864	
					1 1/2"		1 1/2"			1/2"		3/4"			1 1/4"	
2000	2,3	1400	1200	1000	2250	419	876	1336	1789	404	569	1119	1689	491	1515	1815
	3,45														1365	
	4,56														1215	
	5,7														1065	
	6,9														915	
					1 1/2"		1 1/2"			1/2"		3/4"			1 1/4"	

DHW HEAT EXCHANGER PERFORMANCE

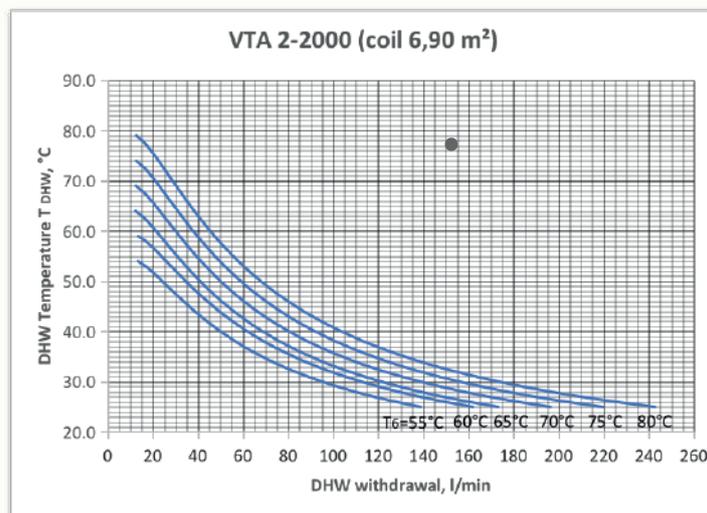
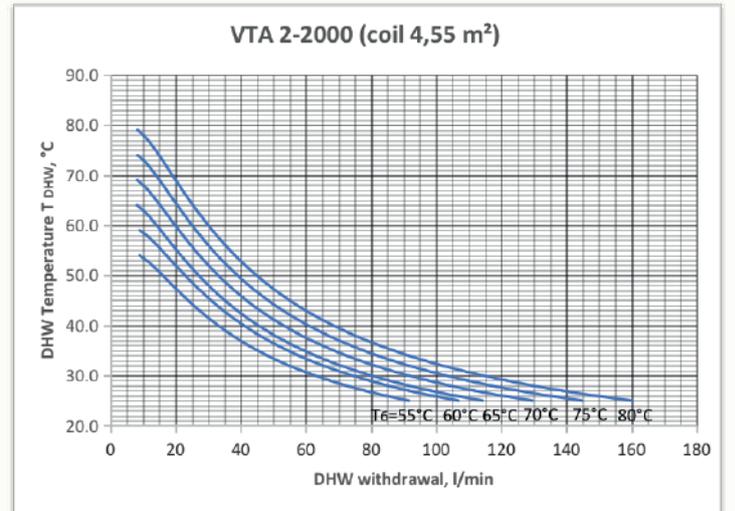
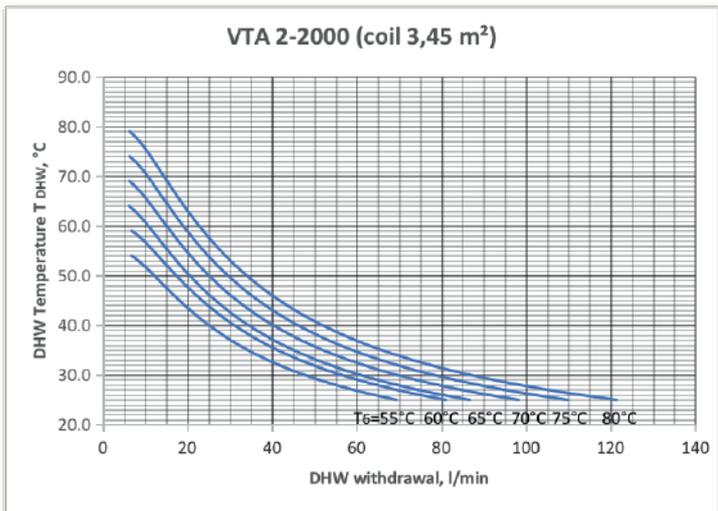
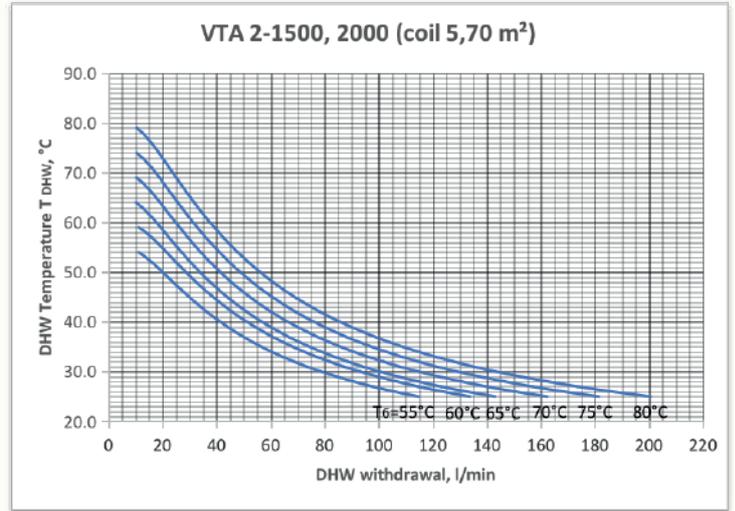
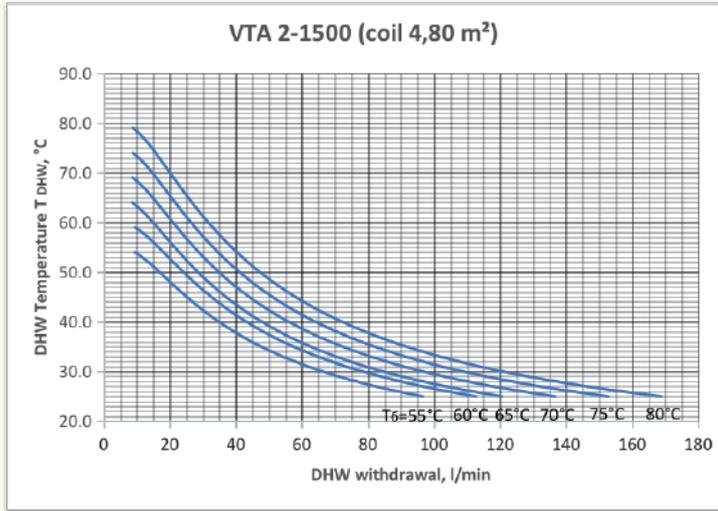
The performance of the DHW heat exchanger is expressed as the temperature of the heated water, T_{DHW} (°C), as a function of its flow rate, V (l/min), through the heat exchanger, for varying temperatures of the heat transfer fluid, T_T (°C), within the water heater tank.



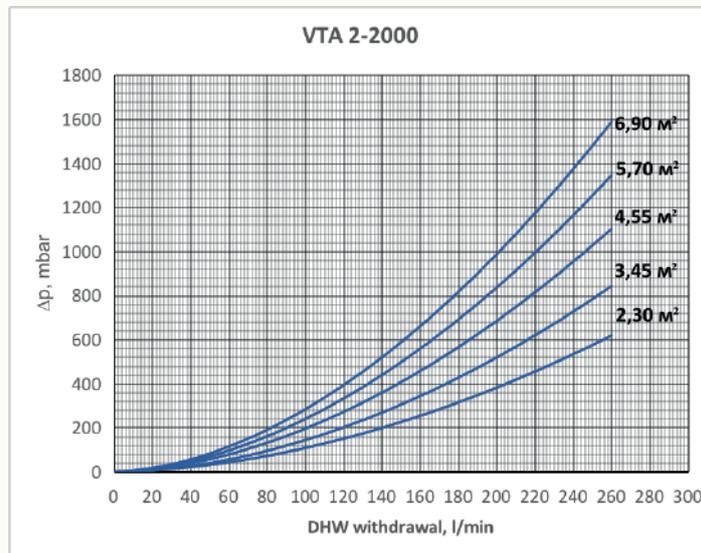
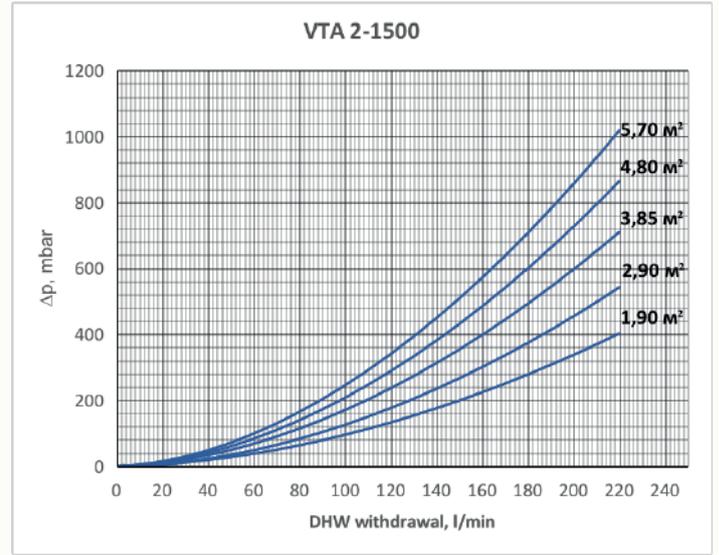
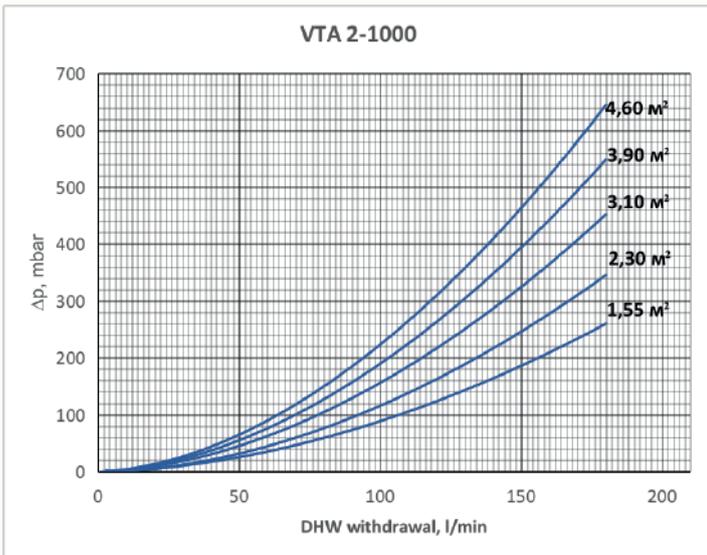
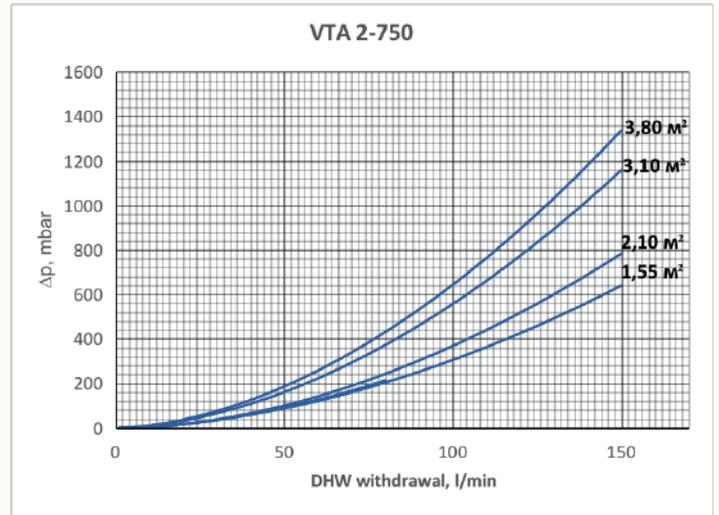
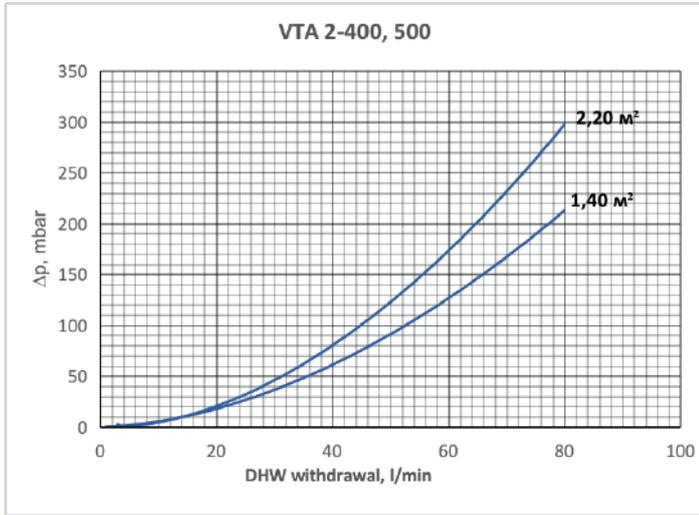
DHW HEAT EXCHANGER PERFORMANCE



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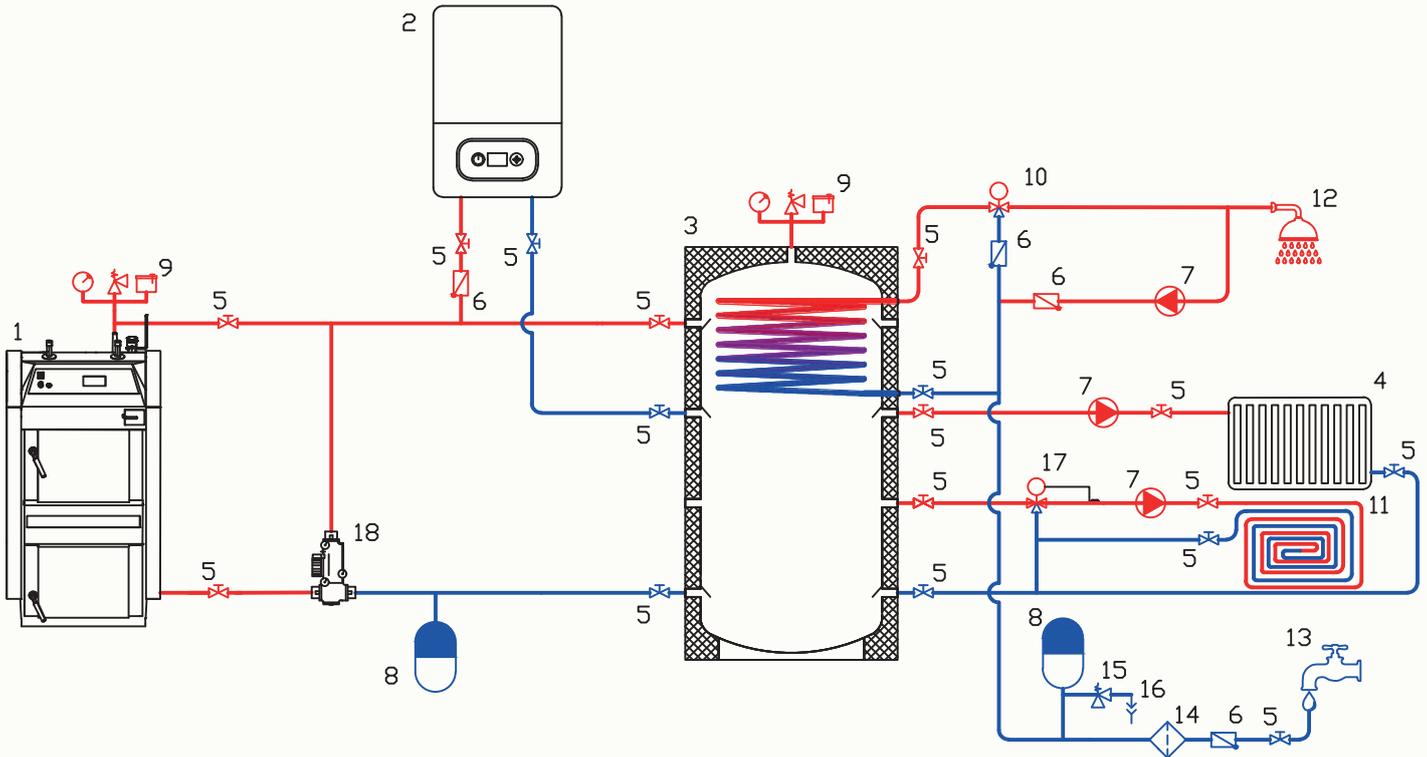


PRESSURE LOSSES OF THE DHW HEAT EXCHANGER



EXAMPLE OF A SCHEMATIC DIAGRAM

The schematic diagram does not replace qualified installation: during design, relevant standards and regulations must be followed.



DESIGNATION

- | | | | | | |
|---|--------------------------|----|------------------------------|----|--|
| 1 | Solid fuel boiler | 7 | Circulation pump | 13 | Water supply system |
| 2 | Gas or electric boiler | 8 | Expansion tank | 14 | Strainer filter |
| 3 | VTA 2 water heater | 9 | Safety group | 15 | Domestic hot water system |
| 4 | Radiator heating circuit | 10 | Three-way mixing valve | 16 | Drainage |
| 5 | Ball valve | 11 | "Warm floor" heating circuit | 17 | Three-way valve with remote sensor for the "warm floor" system |
| 6 | Check valve | 12 | Domestic hot water system | | |