

FOR SYSTEMS WITH HEAT PUMPS
FOR HEATING/COOLING



TECHNICAL DESCRIPTION

The buffer tank is designed for hydraulic separation between the heat pump circuit and the heating/cooling circuit; to increase the system volume; to accumulate heat or cold to ensure the correct and stable operation of the heat pump and the heating/cooling system. It allows for the connection of an additional heat source and the installation of an electric heat element.

MATERIAL

The tank is made of carbon structural steel S235JR (DIN 1.0038).

WARRANTY

5 years

THERMAL INSULATION

PUH/PVC – Rigid polyurethane foam insulation, 50 mm thick, enclosed in a PVC fabric jacket with a lock.

PUH/ABS – Rigid polyurethane foam insulation, 50 mm thick, enclosed in an ABS plastic jacket with a lock.

The above insulation types comply with all requirements of the **ErP 2009/125/EC Directive**

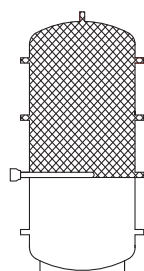
Tank	
P	T
6 bar	-10 + 95 °C



Model	V tank, l	Energy Efficiency Class of Insulation
100	108	B
150	145	B
200	214	B
250	260	C
300	305	C

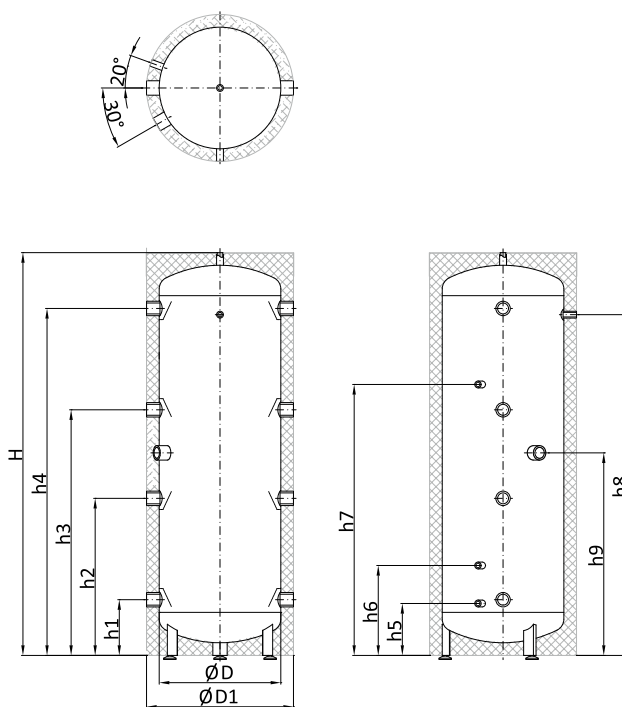
ACCESSORIES

Electric heat elements



Model	Heating zone volume, liters	2 kW	3 kW	4,5 kW
		1-220		3-400
		Heating time for ΔT=20°, minutes		
100	53	65	43	29
150	72	88	59	39
200	111	135	90	60
250	133	162	108	72
300	147	179	119	80



DIMENSIONS AND CONNECTION


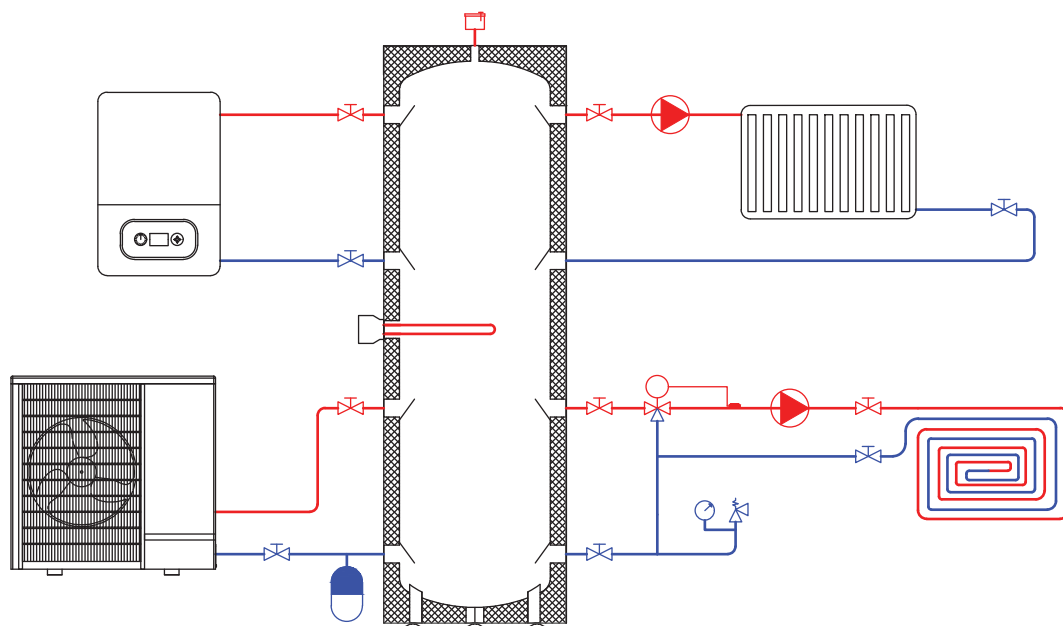
ВТА 4-100, -150, -200, -250, -300
 (кут між основними підключеннями 180°)

DESIGNATION

H	Air vent	h5	Technological connection	h8	Connection for thermometer
h1-h4	Connections for supply and return lines of heating circuits	h6-h7	Connections for temperature sensors	h9	Connection for electric heat element

Model	Dimensions, mm			Connection Dimensions, mm								
	ØD1	ØD	H	h1	h2	h3	h4	h5	h6	h7	h8	h9
100	510	400	980	190	390	590	790	175	290	690	765	540
			½"	1 ¼"				½"				1 ½"
150	510	400	1280	190	490	790	1090	175	290	890	1065	640
			½"	1 ½"				½"				1 ½"
200	590	480	1340	220	545	795	1120	205	355	895	1095	670
			½"	1 ½"				½"				1 ½"
250	590	480	1590	220	620	970	1370	205	355	1070	1345	800
			½"	1 ½"				½"				1 ½"
300	590	480	1840	220	700	1140	1620	205	355	1240	1595	970
			½"	1 ½"				½"				1 ½"

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



DESIGNATION

- | | | | |
|---|--|---|--|
|  VTA 4 storage tank
(for heat pump) 100-200 |  Heating radiator |  Circulation pump |  Check valve |
|  Gas/Electric boiler |  Тепла підлога |  Three-way valve
with remote sensor |  Pressure gauge |
|  Heat pump |  Expansion tank |  Shut-off valves | |
|  Electric heat element |  Automatic air vent |  Safety valve | |

DESIGNATION

