

DATA SHEET

DUO 1000/200 N P Thermal Store with immersed DHW tank



Main Features	
Application	Storage of thermal energy for DHW and space heating.
Description	Combination Thermal Store with immersed stainless steel DHW tank; a tight separating plate increases seasonal performance factor of a heat pump.
Working fluid	Water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (thermal store), water (immersed DHW tank).
Thermal store Code	19143
Insulation Code	19334

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	with insulation
Energy efficiency class	N/A
Standing loss	130 W
Storage volume	903 l

Technical Data	
Total volume	903 l
Fluid volume in thermal store	729 l
Immersed DHW tank volume	174 l
Max. working temp. in thermal store	95 °C
Max. working temp. in DHW tank	95 °C
Max. working pressure in thermal store	3 bar
Max. working pressure in DHW tank	6 bar

Materials	
Thermal store material	S235JR
DHW tank material	AISI 304
Tank perimeter insulation	fleece
Perimeter insulation's outer surface	PU leather
Top and bottom tank insulation	fleece

Dimensions, tipping height, insulation thickness, weight	
Tank diameter	800 mm
Tank diameter with insulation	1000 mm
Tank overall height	2080 mm
Tipping height without insulation	2120 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulations thickness	120 mm
Empty weight without insulation	167 kg

Accessories	
El. heating elements	types ETT-C, F, M, P
Heating elements max. length	3 x 700 mm into E1-E3 connections, 755 mm into E4 connection
Electronic anode rod	code 13793
Expansion vessel (drinking water)	type HW 8 l and larger

Spare Parts	
Magnesium anode rod	code 19152

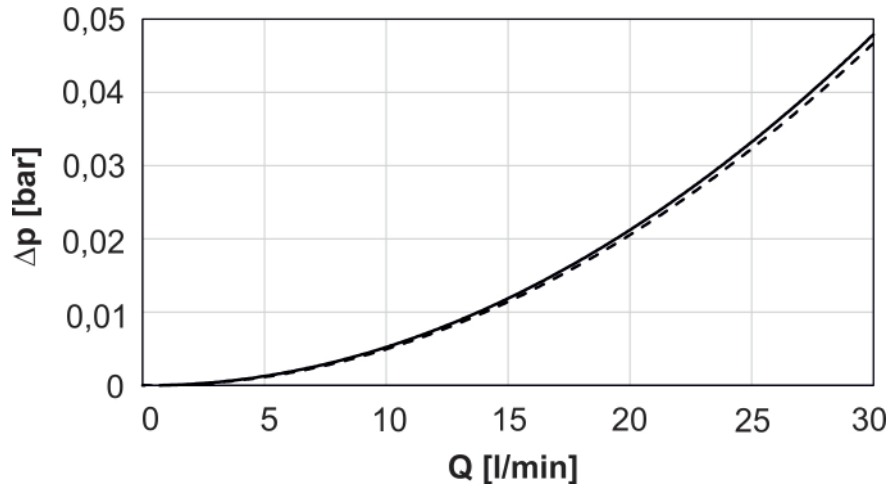
DATA SHEET

DUO 1000/200 N P Thermal Store with immersed DHW tank

Volume of supplied DHW (heated from 10 °C to 40 °C)

Heated volume	entire			entire			above separating plate			entire		
Temperature in tank	60 °C			60 °C			60 °C			80 °C		
Backup heater	10 kW			none			10 kW			none		
Flow rate [l/min]	8	12	20	8	12	20	8	12	20	8	12	20
Hot water volume [l]	730	434	315	538	451	323	254	240	222	1002	859	665

Graph of pressure drop versus flow in the DHW tank



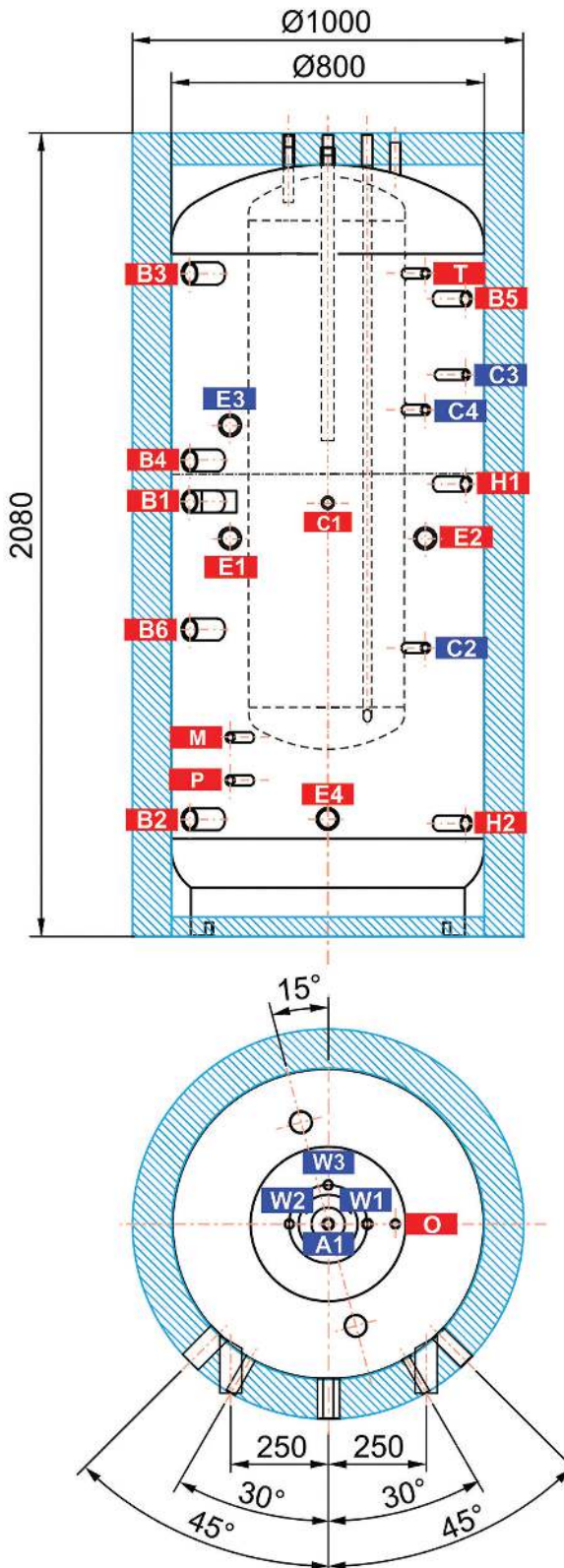
CW - HW
 DHW RECIRCULATION

DATA SHEET

DUO 1000/200 N P Thermal Store with immersed DHW tank

Dimensions

Tipping height without insulation 2120 mm



CONNECTIONS

pos.	descriptions	connection	height [mm]
Heat sources			
B1	Incoming from heat source	G 6/4" F	1115
B2	Return to heat source	G 6/4" F	300
B3	Incoming from heat source	G 6/4" F	1700
B4	Return to heat source	G 6/4" F	1220
B5	Incoming from heat source	G 1" F	1635
B6	Incoming from heat source	G 6/4" F	785
Heating system			
H1	Outlet to the heating circuit	G 1" F	1160
H2	Returnable from the heating circuit	G 1" F	290
Electric heating elements			
E1	Electric heating element for space heating	G 6/4" F	1020
E2	Electric heating element for space heating	G 6/4" F	1020
E3	Electric heating element for DHW heating	G 6/4" F	1310
E4	Electric heating element for PV system	G 6/4" F	300
DHW heating			
W1	Cold water	G 3/4" M	2080
W2	Hot water	G 3/4" M	2080
W3	Circulation	G 3/4" M	2080
A1	Anode	G 3/4" F	2025
Control and safety			
C1	Temperature sensor – space heating	G 1/2" F	1130
C2	Temperature sensor – DHW heating	G 1/2" F	740
C3	Temperature sensor – DHW heating	G 1/2" F	1440
C4	Temperature sensor – DHW heating	G 1/2" F	1350
T	Thermometer	G 1/2" F	1700
M	Pressure gauge	G 1/2" F	510
P	Safety valve	G 1/2" F	400
Air release			
O	Air vent valve	G 1/2" F	2055