

## DATA SHEET

### DUO 750/200 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	<b>19141</b>
Insulation Code	<b>19333</b>

#### Energy Efficiency Data (as per EC Regulation No. 812/2013)

with insulation	
Energy efficiency class	N/A
Standing loss	118 W
Storage volume	757 l

#### Technical Data

Total volume	757 l
Fluid volume in thermal store	583 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	750 mm
Tank diameter with insulation	950 mm
Tank overall height	1980 mm
Tipping height without insulation	2040 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulations thickness	120 mm
Empty weight without insulation	147 kg

#### Accessories

El. heating elements	types ETT-C, F, M, P
Heating elements max. length	3 x 635 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
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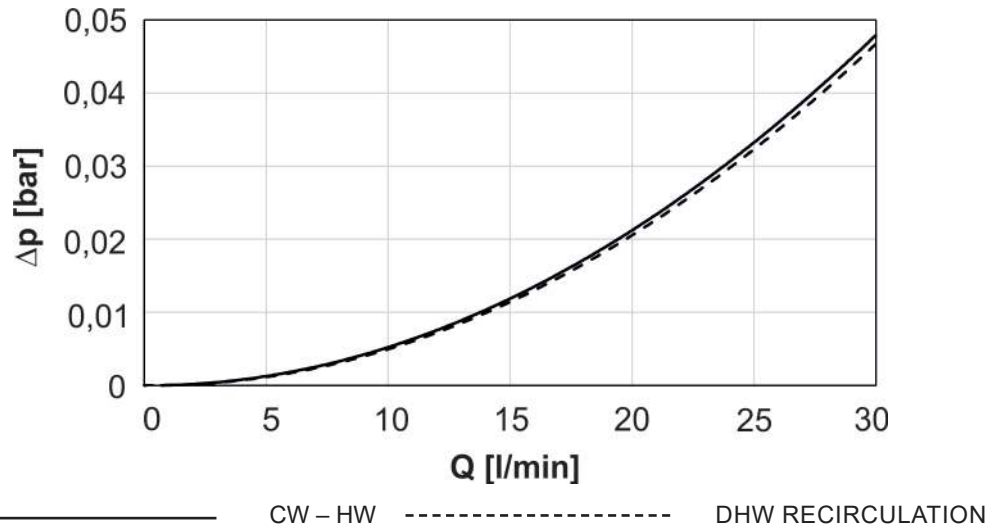
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#### Volume of supplied DHW (heated from 10 °C to 40 °C)

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]	527	407	302	464	390	324	262	238	217	906	788	584

#### Graph of pressure drop versus flow in the DHW tank

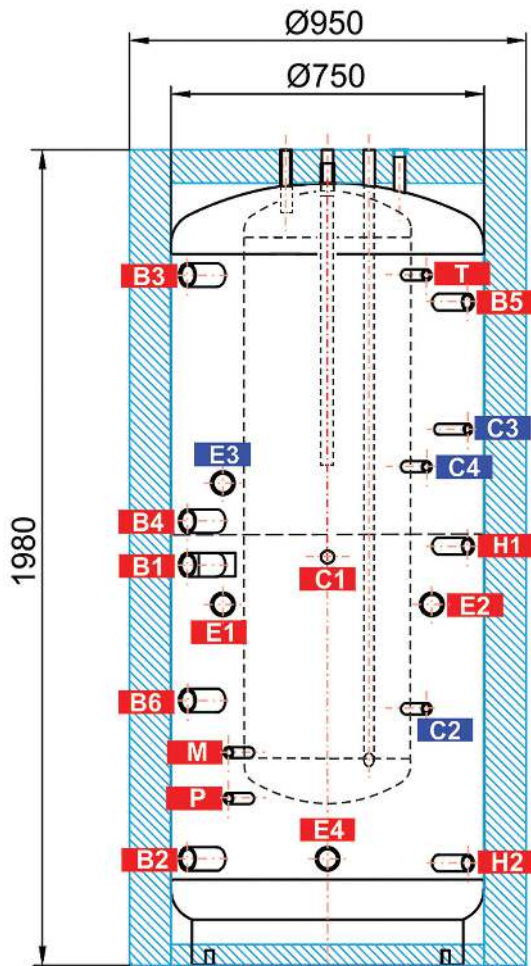


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#### Dimensions

Tipping height without insulation 2040 mm



#### CONNECTIONS

pos.	descriptions	connection	height [mm]
<b>Heat sources</b>			
B1	Incoming from heat source	G 6/4" F	960
B2	Return to heat source	G 6/4" F	255
B3	Incoming from heat source	G 6/4" F	1655
B4	Return to heat source	G 6/4" F	1065
B5	Incoming from heat source	G 1" F	1590
B6	Incoming from heat source	G 6/4" F	635
<b>Heating system</b>			
H1	Outlet to the heating circuit	G 1" F	1005
H2	Returnable from the heating circuit	G 1" F	245
<b>Electric heating elements</b>			
E1	Electric heating element for space heating	G 6/4" F	865
E2	Electric heating element for space heating	G 6/4" F	865
E3	Electric heating element for DHW heating	G 6/4" F	1155
E4	Electric heating element for PV system	G 6/4" F	255
<b>DHW heating</b>			
W1	Cold water	G 3/4" M	1980
W2	Hot water	G 3/4" M	1980
W3	Circulation	G 3/4" M	1980
A1	Anode	G 3/4" F	1925
<b>Control and safety</b>			
C1	Temperature sensor – space heating	G 1/2" F	975
C2	Temperature sensor – DHW heating	G 1/2" F	615
C3	Temperature sensor – DHW heating	G 1/2" F	1285
C4	Temperature sensor – DHW heating	G 1/2" F	1195
T	Thermometer	G 1/2" F	1655
M	Pressure gauge	G 1/2" F	510
P	Safety valve	G 1/2" F	400
<b>Air release</b>			
O	Air vent valve	G 1/2" F	1955