

**DUO 1700/200 PR Thermal store with immersed DHW tank**

Main features	
Application	storage of thermal energy for DHW and space heating
Description	combination Thermal Store with immersed DHW tank and integrated solar heat exchanger, with a tight separating metal sheet that increases the COP of the heat pump and efficiency of the solar thermal system
Working fluid	water, water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (thermal store), water (immersed DHW tank)

**DUO 1700/200 PR**



**DUO 1700/200 PR with insulation**



Code	
Thermal store	<b>14 228</b>
Insulation	<b>16 293</b>

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
	<b>DUO 1700/200 PR with insulation</b>
Energy efficiency class	N/A
Standing loss	177 W
Storage volume	1648 l

Technical data	
Total volume	1670 l
Fluid volume in thermal store	1458 l
Immersed DHW tank volume	190 l
Heat exchanger (HE) volume	22 l
Heat exchanger surface area	4,0 m <sup>2</sup>
Max. working temp. in thermal store	95 °C
Max. working temp. in DHW tank	95 °C
Max. working temp. in HE	95 °C
Max. working pressure in thermal store	3 bar
Max. working pressure in DHW tank	6 bar
Max. working pressure in HE	10 bar

Materials	
Thermal store material	S235JR
DHW tank material	DC01EK
Heat exchanger material	S235JR+N

Insulation materials	
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	1100 mm
Tank diameter with insulation	1300 mm
Tank overall height	2080 mm
Tipping height without insulation	2200 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulations thickness	120 mm
Empty weight without insulation	286 kg

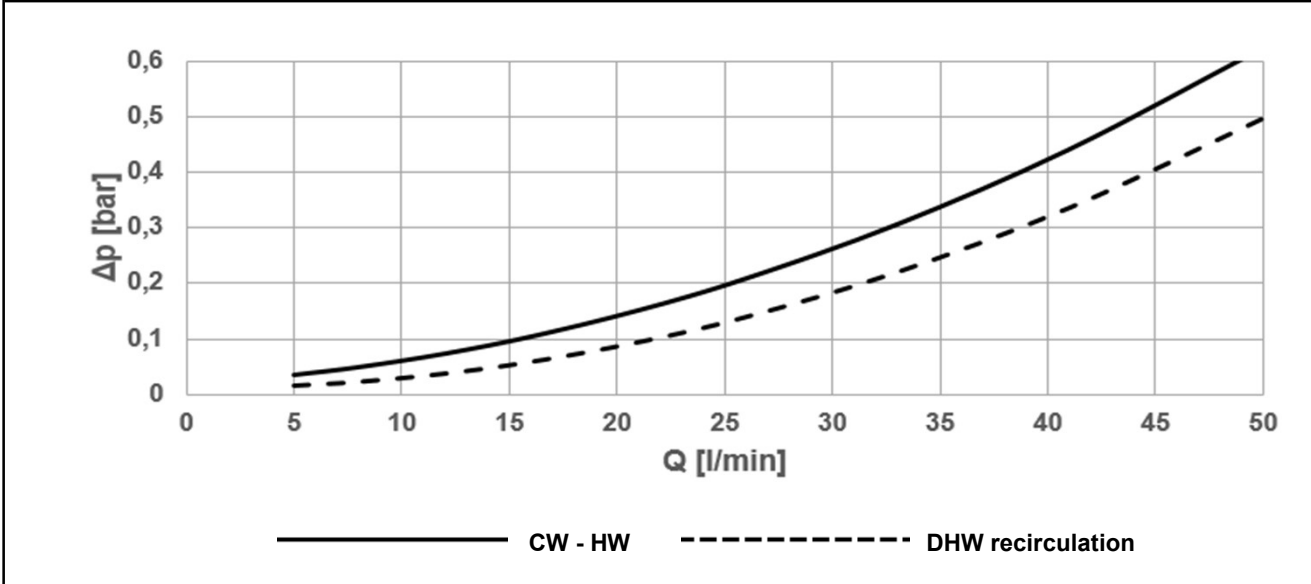
Accessories	
El. heating elements	models ETT-C, F, L, M
Heating elements max. length / output	3 x 1050 mm / 3 x 12 kW
Pump station	solar, S1 and S2 models
Electronic anode rod	code 13 793
Expansion vessel (drinking water)	model HW 8 l and bigger

Spare parts	
Magnesium anode rod	code 13 959

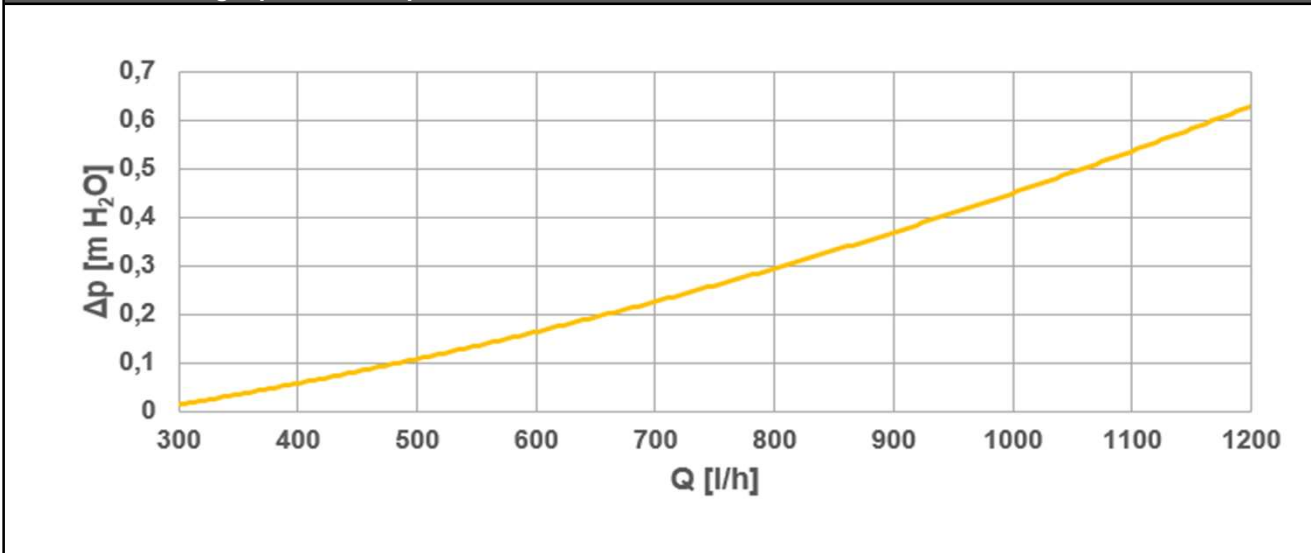
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Volume of supplied DHW (heated from 10 °C to 40 °C)												
Heated volume	entire			entire			entire			above baffle		
Temperature in tank	60 °C			60 °C			80 °C			60 °C		
Backup heater	10 kW			none			none			10 kW		
Flow rate [l/min]	8	12	20	8	12	20	8	12	20	8	12	20
Hot water volume [l]	1214	552	348	762	424	323	1572	1200	744	207	182	137

**Pressure drop vs. flow rate graph**



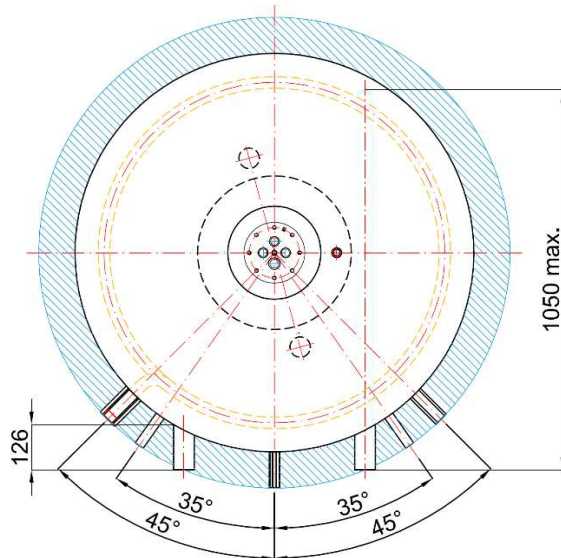
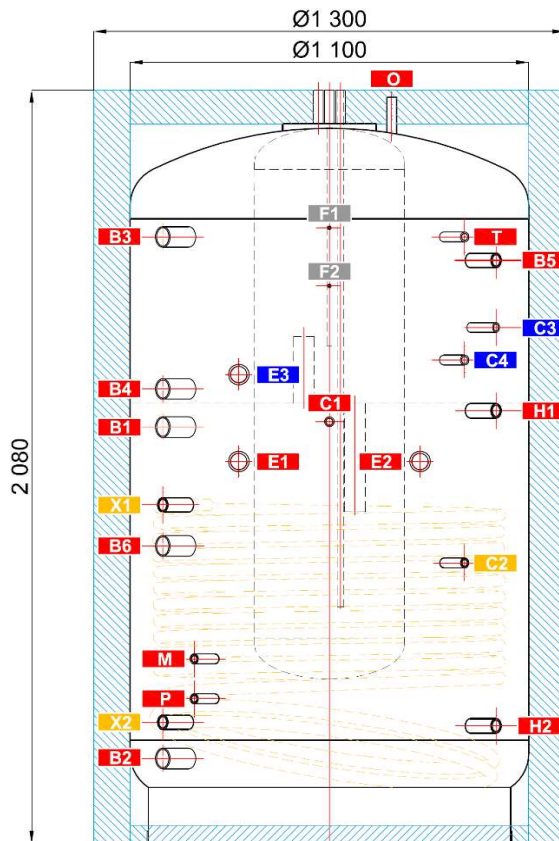
**Solar heat exchanger pressure drop**



**DUO 1700/200 PR Thermal store with immersed DHW tank**

**Dimensions**

Tipping height without insulation 2200 mm.



**TAPPINGS**

pos.	connection	height [mm]
<b>Heat sources</b>		
B1	G 6/4" F	1150
B2	G 6/4" F	235
B3	G 6/4" F	1675
B4	G 6/4" F	1255
B5	G 1" F	1610
B6	G 6/4" F	820
<b>Heating system</b>		
H1	G 1" F	1195
H2	G 1" F	325
<b>Solar thermal system</b>		
X1	G 1" F	935
X2	G 1" F	335
<b>Electric immersion heaters</b>		
E1	G 6/4" F	1055
E2	G 6/4" F	1055
E3	G 6/4" F	1295
<b>DHW heating</b>		
W1	G 3/4" M	2080
W2	G 3/4" M	2080
W3	G 3/4" M	2080
N	G 3/4" F	1980
<b>Control and safety</b>		
C1	G 1/2" F	1165
C2	G 1/2" F	775
C3	G 1/2" F	1425
C4	G 1/2" F	1335
C5	Ø 10,5 mm	2080
T	G 1/2" F	1675
M	G 1/2" F	510
P	G 1/2" F	400
<b>Air release</b>		
O	G 1/2" F	2060
<b>Pump station support</b>		
F1	M 6	1700
F2	M 6	1540

