

DUO 750/200 N P Thermal Store with immersed DHW tank


Main Features	
Application	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	19141
Insulation code	19333

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

Energy efficiency class	N/A
Static loss	118 W
Storage volume	757 l

Technical data

Total thermal store volume	757 l
Fluid volume in thermal store	583 l
Immersed DHW tank volume	174 l
Max. working temperature in thermal store	95 °C
Max. working temperature in immersed DHW tank	95 °C
Max. working pressure in thermal store	3 bar
Max. working pressure in immersed DHW tank	6 bar
Thermal store diameter	750 mm
Thermal store diameter with insulation	950 mm
Thermal store overall height	1955 mm
Tipping height without insulation	2015 mm
Thermal store perimeter insulation thickness	100 mm
Thermal store bottom insulation thickness	50 mm
Thermal store top insulation thickness	120 mm
Empty weight without insulation	147 kg

Materials

Thermal store material	S235JR
Thermal store perimeter insulation	fleece
Immersed DHW tank	AISI 304
Thermal store outer surface insulation	PU leather
Top and bottom thermal store insulation	fleece

Insulation thermal conductivity $\lambda \leq 0.037$ W/mK, thermal resistance (short/long term) 150/100 °C, fire class E.

Accessories

Electric heating element	types ETT-C, F2, M, P, U
Heating element max. length	635 mm
Electronic anode rod	code 13793
Expansion vessel	type HW 8 l and larger

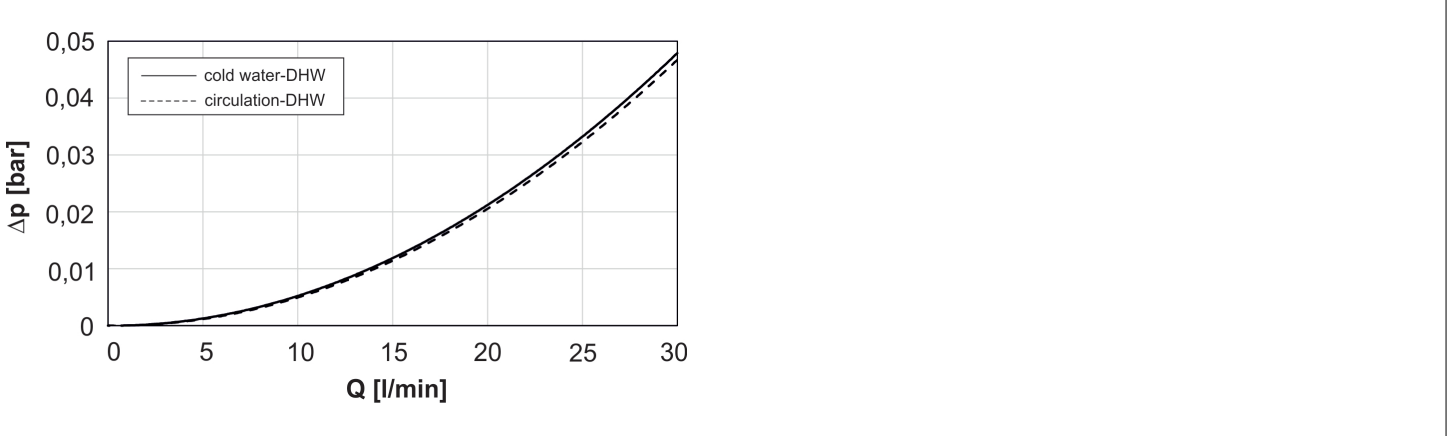
Spare parts (magnesium anode rods)

Magnesium anode rod	code 19152
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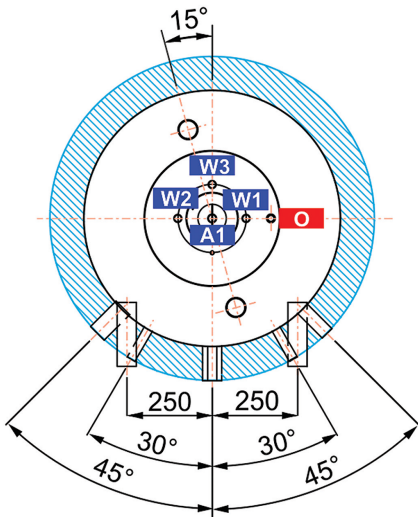
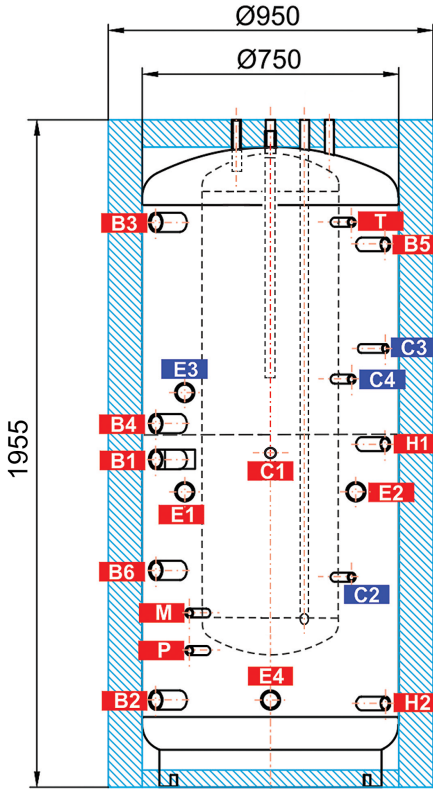
Volume of supplied DHW (heated from 10 °C to 40 °C)				
Heated volume	Temperature in thermal store	Backup heater	Flow rate [l/min]	Hot water volume [l]
Entire	60 °C	10 kW	8	527
			12	407
			20	302
Entire	60 °C	none	8	464
			12	390
			20	324
Above metal sheet	60 °C	10 kW	8	262
			12	238
			20	217
Entire	80 °C	none	8	906
			12	788
			20	584

DHW heat exchanger pressure drop graph



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Dimensions



CONNECTIONS

pos.	description	connection	height [mm]
Heat sources			
B1	Supply from heat source	G 6/4" F	960
B2	Return to heat source	G 6/4" F	255
B3	Supply from heat source	G 6/4" F	1655
B4	Return to heat source	G 6/4" F	1065
B5	Supply from heat source	G 1" F	1590
B6	Supply from heat source	G 6/4" F	635
Heating system			
H1	Flow to heating system	G 1" F	1005
H2	Return from heating system	G 1" F	245
Electric heating element			
E1	El. heating element (DHW)	G 6/4" F	865
E2	El. heating element (space heating)	G 6/4" F	865
E3	El. heating element (space heating)	G 6/4" F	1155
E4	El. heating element (for PV system)	G 6/4" F	255
DHW heating			
W1	Cold water	G 3/4" F	1955
W2	Domestic hot water	G 3/4" F	1955
W3	Recirculation	G 3/4" F	1955
A1	Anode	G 3/4" F	1925
Control and safety			
C1	Temperature sensor	G 1/2" F	975
C2	Temperature sensor	G 1/2" F	615
C3	Temperature sensor	G 1/2" F	1285
C4	Temperature sensor	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
Air discharge			
O	Air vent valve	G 1/2" F	1955