

DATA SHEET

DUO 750/160 K P Thermal store with immersed DHW tank

Main Features	
Application	Storage of thermal energy for DHW and space heating; the overall height of these tanks is reduced compared to the standard ones, making them a suitable alternative for spaces with a low ceiling.
Description	Combination Thermal Store with immersed DHW tank; a tight separating sheet 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).



DUO 750/160 K P

DUO 750/160 K P with insulation



Code	
Thermal Store	16828
Insulation	16830

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
Energy efficiency class	N/A
Standing loss	132 W
Storage volume	710 l

Technical Data	
Total volume	710 l
Fluid volume in thermal store	550 l
Immersed DHW tank volume	160 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	S235JR + DC01EK

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	790 mm
Tank diameter with insulation	990 mm
Tank overall height	1727 mm
Tipping height without insulation	1900 mm
Tank perimeter insulation thickness	100 mm
Bottom insulation thickness	50 mm
Top insulation thickness	120 mm
Empty weight without insulation	139 kg

Accessories	
El. heating elements	models ETT-C, F, P, M
Heating elements max. length/output	2 x 670 mm / 2 x 7.5 kW
Plate heat exchanger	kits with heat exchanger and accessories for connection to a solar pump station
Electronic anode rod	code 13793
Expansion vessel (drinking water)	model HW 8 l and bigger

Spare parts	
Magnesium anode rod	code 13959

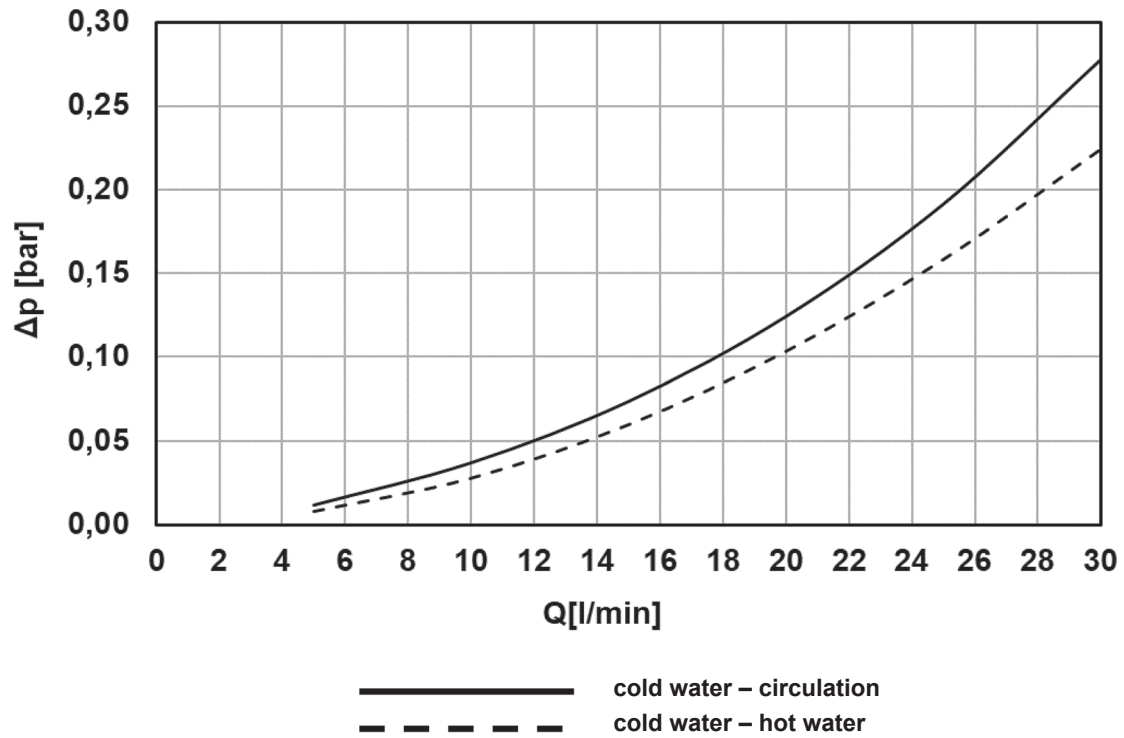
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ADUO 750/160 K P Thermal store with immersed DHW tank

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

Heated volume	entire			entire			entire			above metal sheet		
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]	271	241	224	295	246	227	661	590	463	116	110	96

Pressure drop vs. flow rate graph

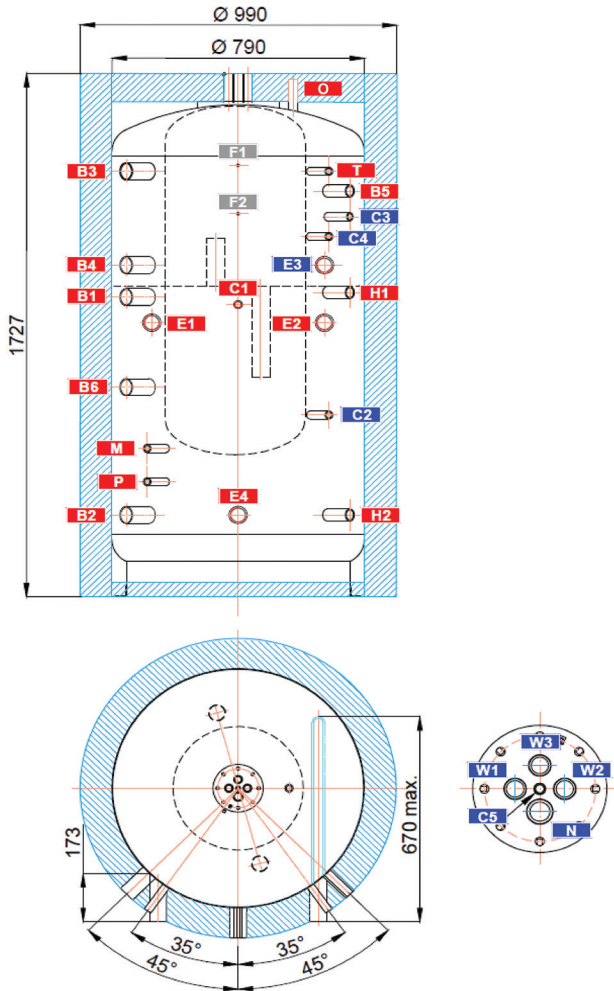


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Dimensions

Tipping height without insulation 1900 mm



CONNECTIONS

pos.	descriptions	connection	height [mm]
Heat sources			
B1	Incoming from heat source	G 1" F	990
B2	Return to heat source	G 1" F	270
B3	Incoming from heat source	G 1" F	1405
B4	Return to heat source	G 1" F	1095
B5	Incoming from heat source	G 1" F	1340
B6	Incoming from heat source	G 6/4" F	692
Heating system			
H1	Outlet to the heating circuit	G 1" F	1005
H2	Returnable from the heating circuit	G 1" F	270
Electric immersion heaters			
E1	Electric heating element for space heating	G 6/4" F	905
E2	Electric heating element for space heating	G 6/4" F	905
E3	Electric heating element for DHW heating	G 6/4" F	1095
E4	Electric heating element for PV system	G 6/4" F	270
DHW heating			
W1	Cold water	G 1" M	1727
W2	Hot water	G 1" M	1727
W3	Circulation	G 1" M	1727
N	Anode	G 3/4" F	1625
Control and safety			
C1	Temperature sensor	G 1/2" F	965
C2	Temperature sensor	G 1/2" F	600
C3	Temperature sensor	G 1/2" F	1255
C4	Temperature sensor	G 1/2" F	1190
C5	Temperature sensor	Ø 10.5 mm	1727
T	Thermometer	G 1/2" F	1405
M	Pressure gauge	G 1/2" F	490
P	Safety valve	G 1/2" F	380
O	Air vent valve	G 1/2" F	1709
Other			
F1	Attaching the pump station	M6	1425
F2	Attaching the pump station	M6	1265