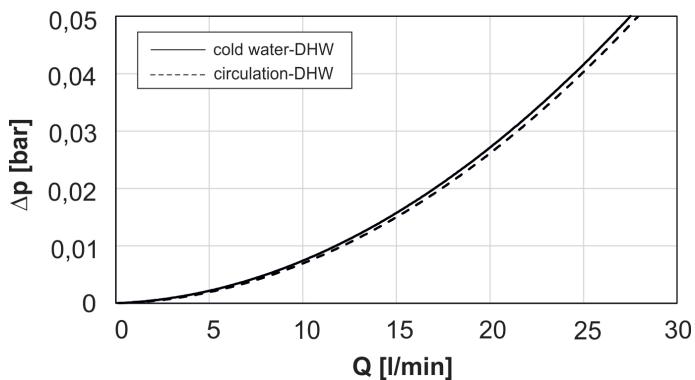


DUO 390/130 N P Thermal Store with immersed DHW tank

	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 19131
	Insulation code 19318
Energy Efficiency Data (as per EC Regulation No. 812/2013)	
Energy efficiency class	C
Static loss	87 W
Storage volume	396 l
Technical data	
Total thermal store volume	396 l
Fluid volume in thermal store	273 l
Immersed DHW tank volume	123 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	550 mm
Thermal store diameter with insulation	750 mm
Thermal store overall height	1880 mm
Tipping height without insulation	1920 mm
Thermal store perimeter insulation thickness	100 mm
Thermal store bottom insulation thickness	50 mm
Thermal store top insulation thickness	100 mm
Empty weight without insulation	102 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
<i>Insulation thermal conductivity λ ≤ 0.037 W/mK, thermal resistance (short/long term) 150/100 °C, fire class E.</i>	
Accessories	
Electric heating element	types ETT-C, F2, M, P, U
Heating element max. length	500 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	331
			12	223
			20	174
Entire	60 °C	none	8	277
			12	254
			20	197
Above metal sheet	60 °C	10 kW	8	199
			12	176
			20	157
Entire	80 °C	none	8	487
			12	458
			20	351

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 1" F	780		
B2	Return to heat source	G 1" F	210		
B3	Supply from heat source	G 1" F	1630		
B4	Return to heat source	G 1" F	880		
B5	Supply from heat source	G 1" F	1540		
Heating system					
H1	Flow to heating system	G 1" F	780		
H2	Return from heating system	G 1" F	210		
Electric heating element					
E1	El. heating element (DHW)	G 6/4" F	980		
E2	El. heating element (space heating)	G 6/4" F	720		
E3	El. heating element (space heating)	G 6/4" F	720		
E4	El. heating element (for PV system)	G 6/4" F	270		
DHW heating					
W1	Cold water	G 3/4" F	1880		
W2	Domestic hot water	G 3/4" F	1880		
W3	Recirculation	G 3/4" F	1880		
A1	Anode	G 3/4" F	1855		
Control and safety					
C1	Temperature sensor	G 1/2" F	750		
C2	Temperature sensor	G 1/2" F	510		
C3	Temperature sensor	G 1/2" F	1160		
C4	Temperature sensor	G 1/2" F	1020		
T	Thermometer	G 1/2" F	1630		
M	Pressure gauge	G 1/2" F	510		
P	Safety valve	G 1/2" F	400		
O	Air vent valve	G 1/2" F	1880		
Air discharge					