


RBC 500 Hot Water Storage Tank

	Main Features	
	Application	Hot water tank intended for DHW heating, with integrated enamelled heat exchanger. It comes fitted with detachable insulation and a magnesium anode rod that protects its inner surface from corrosion. As an option, an electronic anode rod can be installed instead of the magnesium one, for the codes see the Accessories table. If desired, an electric heating element can be installed into the hot water tank.
	Working fluid	water (tank) - water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1) (heat exchanger)
	Code	6480

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

Energy efficiency class	C
Static loss	102 W
Storage volume	500 l

Technical data

Total DHW tank volume	515 l
Fluid volume in DHW tank	500 l
Heat exchanger volume	15.0 l
Heat exchanger surface area	2.5 m ²
Max. working temperature in DHW tank	95 °C
Max. working temperature in heat exchanger	110 °C
Max. working pressure in DHW tank	10 bar
Max. working pressure in heat exchanger	10 bar
DHW tank diameter	650 mm
DHW tank diameter with insulation	760 mm
DHW tank overall height	1785 mm
Tipping height	1950 mm
DHW tank empty weight	163 kg

Power for hot water heating from 10 °C to 45 °C at heating water temperature 60 °C

Heat exchanger performance	40 kW, (990 l/h)
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Materials

DHW tank material	S235JR, inner surf. enamelled (DIN 4753-3)
Heat exchanger material	S235JR+N, outer surf. enamelled (DIN 4753-3)
DHW tank insulation	PU foam (hard)
DHW tank outer surface insulation	PVC

Accessories

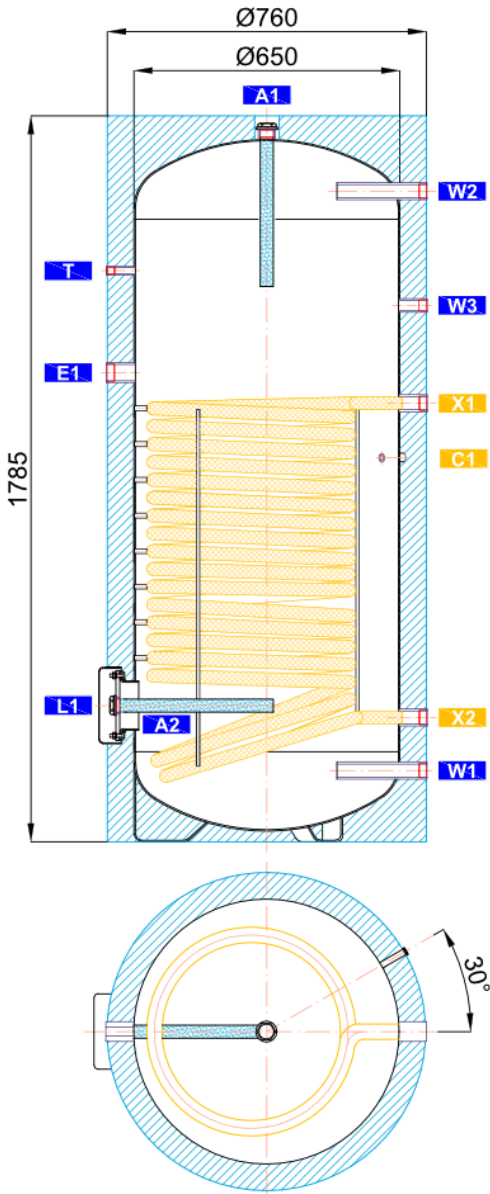
Electric heating element	models ETT-A, D2, M, N, R, S, F2, P, U
Heating element max. length for E1 / flange	680 mm / 500 mm
Electronic anode rod	code 17368
Electronic anode rod for flange	code 17432

Spare parts (magnesium anode rods)

Mg anode rod (A1)	code 4025
Mg anode rod (A2)	code 4025

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Dimensions



CONNECTIONS

pos.	description	connection	height [mm]
DHW heating			
W1	Cold water	G 5/4" F	175
W2	Hot water	G 5/4" F	1595
W3	Recirculation	G 1" F	1315
Auxiliary heat source			
E1	Electric heating element	G 6/4" F	1150
Control and safety			
C1	Temperature sensor	G 1/2" F	825
T	Thermometer	G 1/2" F	1400
Heat sources			
X1	Supply from heat source	G 5/4" F	1075
X2	Return to heat source	G 5/4" F	320
Others			
L1	Flange	8 x M10	335
A1	Magnesium anode rod	G 5/4" F	1750
A2	Magnesium anode rod	G 5/4" F	335

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Pressure drop diagram

