

## DATA SHEET

### RBC 500 HP Hot Water Storage Tank



Main features	
Application	Hot water tank intended for DHW heating, with 1 upsized enamelled heat exchanger. It comes fitted with 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) or water/glycerine mixture (max. 2:1) (heat exchanger)
Code	<b>8546</b>

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
Energy efficiency class	C
Standing loss	114 W
Storage volume	473 l

Technical data	
Total tank volume	509 l
Fluid volume in tank	473 l
Heat exchanger (HE) volume	36 l
Heat exchanger surface area	5.9 m <sup>2</sup>
Max. working temperature in tank	95 °C
Max. working temperature in HE	110 °C
Max. working pressure in tank	10 bar
Max. working pressure in HE	10 bar
Tank diameter	650 mm
Tank diameter with insulation	760 mm
Tank overall height	1785 mm
Tipping height	1950 mm
Empty weight	220 kg

Hot water heating from 10 °C to 45 °C at heating water inlet temperature 60 °C	
Heat exchanger	1850 l/h (75 kW)

Materials	
Tank material	S235JR, inner surface enamelled (DIN 4753-3)
Heat exchanger material	S235JR+N, outer surface enamelled (DIN 4753-3)
Tank perimeter insulation	PU foam (hard)
Insulation's outer surface	PVC

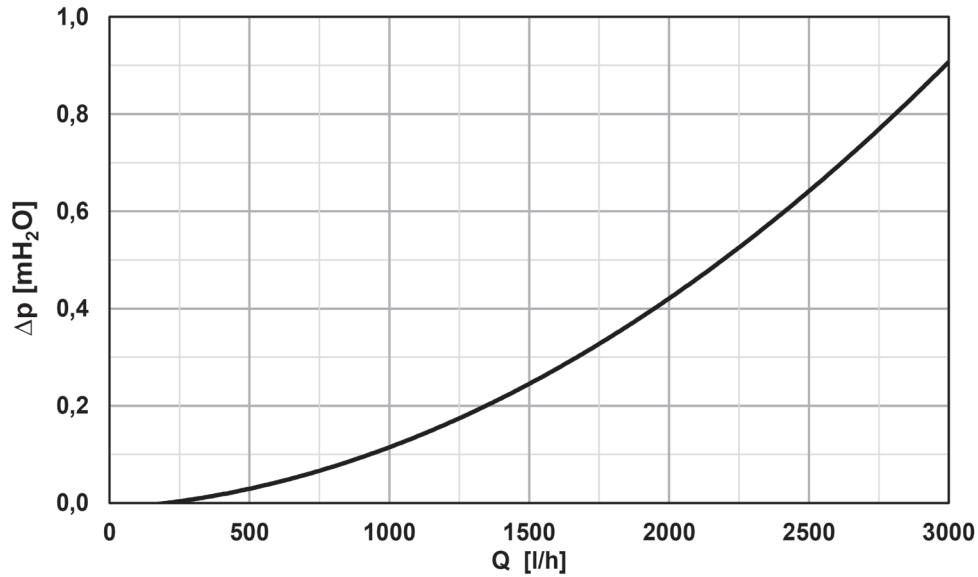
Accessories	
El. heating element	models ETT-A, D, F, P, M
Heating elem. max. length	680 mm
Electronic anode rod	code 17376
Electronic anode rod with flange	code 17434

Spare parts (magnesium anode rods)	
Mg anode rod (A3), G 5/4"	code 3698
Mg anode rod with flange (A2), G 5/4"	code 4025

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#### Heat exchanger pressure drop



#### Dimensions

pos.	description	connection	height [mm]
<b>DHW heating</b>			
W1	cold water	G 5/4" F	175
W2	hot water	G 5/4" F	1595
W3	recirculation	G 1" F	1375
<b>Auxiliary heat source</b>			
E1	electric heating element	G 6/4" F	1335
<b>Control and safety</b>			
C1	temperature sensor – upper	G 1/2" F	825
T	temperature indicator	G 1/2" F	1475
<b>Heat sources</b>			
X1	supply from heat source	G 5/4" F	1235
X2	return to heat source	G 5/4" F	295
<b>Others</b>			
L1	flange	8 x M10	360
A2	magnesium anode rod	G 5/4" F	360
A3	magnesium anode rod	G 5/4" F	1750

