

## DATA SHEET

### R2DC 160 Hot Water Storage Tank



Main features	
Application	Hot water tank intended for DHW heating, with 2 integrated enamelled heat exchangers. 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 exchangers)
Code	<b>13490</b>

Energy Efficiency Data (as per EC Regulation No. 812/2013)	
Energy efficiency class	C
Standing loss	75 W
Storage volume	144 l

Technical data	
Total tank volume	153 l
Fluid volume in tank	144 l
Upper heat exchanger (HE) volume	4 l
Lower heat exchanger (HE) volume	5 l
Upper heat exchanger surface area	0.7 m <sup>2</sup>
Lower heat exchanger surface area	0.8 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	500 mm
Tank diameter with insulation	584 mm
Tank overall height	1074 mm
Tipping height	1230 mm
Empty weight	76 kg

Hot water heating from 10 °C to 45 °C at heating water inlet temperature 60 °C	
Upper heat exchanger	270 l/h (11 kW)
Lower heat exchanger	320 l/h (13 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	PUR foam (hard)
Insulation's outer surface	plastic

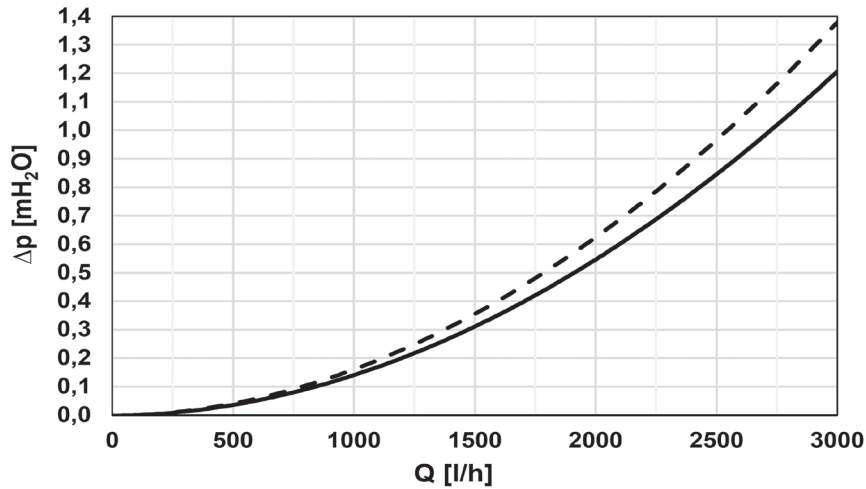
Accessories	
El. heating element	models ETT-A, D, F, P, M
Max. length of the heating element to the E1 connection	500 mm
Electronic anode rod	code 9173

Spare parts (magnesium anode rods)	
Mg anode rod A1 (G 5/4")	code 4025
Mg anode rod (G 3/4") with flange and gasket	code 15846

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### Heat exchanger pressure drop

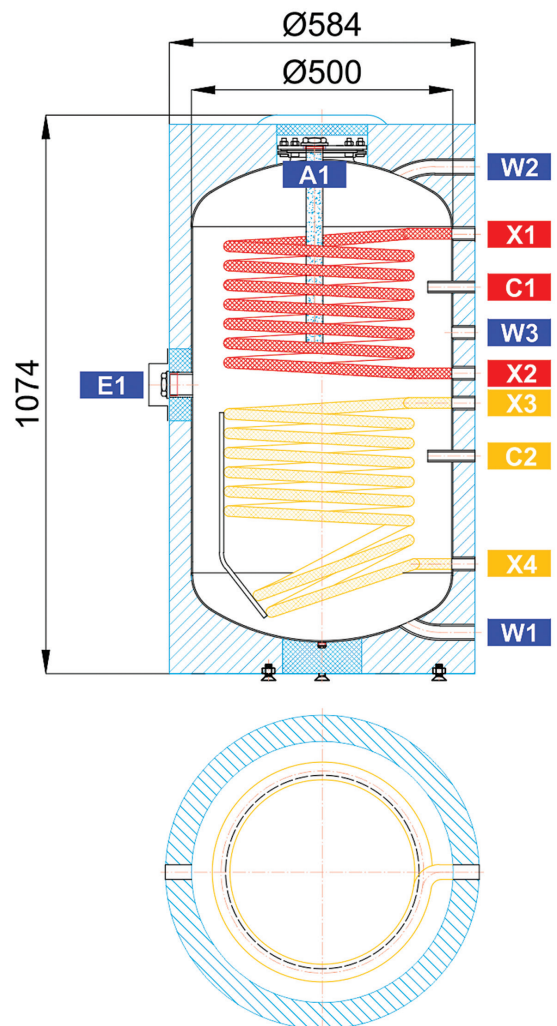


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lower heat exchanger

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upper heat exchanger

### Dimensions

pos.	description	connection	height [mm]
<b>DHW heating</b>			
W1	cold water	G 3/4" M	73
W2	hot water	G 3/4" M	964
W3	recirculation	G 3/4" F	647
<b>Auxiliary heat source</b>			
E1	electric heating element	G 6/4" F	547
<b>Control and safety</b>			
C1	temperature sensor – upper	G 1/2" F	734
C2	temperature sensor – lower	G 1/2" F	411
<b>Heat sources</b>			
X1	supply from heat source	G 3/4" M	835
X2	return to heat source	G 3/4" M	572
X3	supply from heat source	G 3/4" M	512
X4	return to heat source	G 3/4" M	204
<b>Others</b>			
A1	magnesium anode rod	G 5/4" F	1010



1) C1 and C2 tappings are supplied incl. adapter G 1/2" M – M12 x 1.5 and cable gland.  
 2) Earthing metal strip is run through the insulation next to the upper part of the DHW tank.