

DUO 1700/200 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 | 19137 |
| Insulation code | 19354 |

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

| | |
|-------------------------|--------|
| Energy efficiency class | N/A |
| Static loss | 175 W |
| Storage volume | 1682 l |

Technical data

| | |
|---|---------|
| Total thermal store volume | 1682 l |
| Fluid volume in thermal store | 1508 l |
| Immersed DHW tank volume | 174 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 | 1100 mm |
| Thermal store diameter with insulation | 1300 mm |
| Thermal store overall height | 2055 mm |
| Tipping height without insulation | 2175 mm |
| Thermal store perimeter insulation thickness | 100 mm |
| Thermal store bottom insulation thickness | 50 mm |
| Thermal store top insulation thickness | 120 mm |
| Empty weight without insulation | 225 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 |

Insulation thermal conductivity $\lambda \leq 0.037$ W/mK, thermal resistance (short/long term) 150/100 °C, fire class E.

Accessories

| | |
|-----------------------------|--------------------------|
| Electric heating element | types ETT-C, F2, M, P, U |
| Heating element max. length | 955 mm |
| Electronic anode rod | code 13793 |
| Expansion vessel | type HW 8 l and larger |

Spare parts (magnesium anode rods)

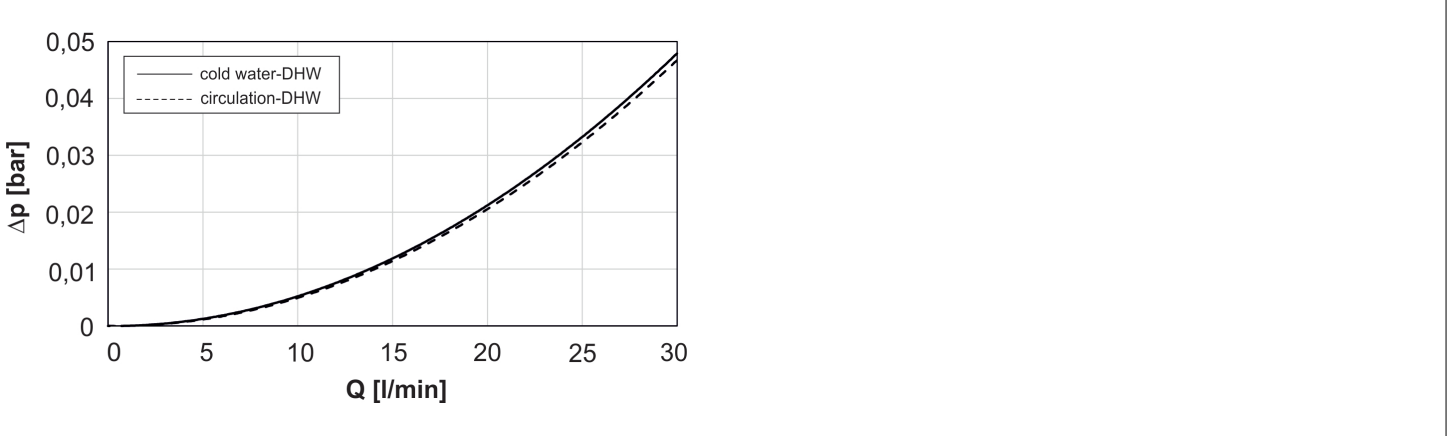
| | |
|---------------------|------------|
| Magnesium anode rod | code 19152 |
|---------------------|------------|

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

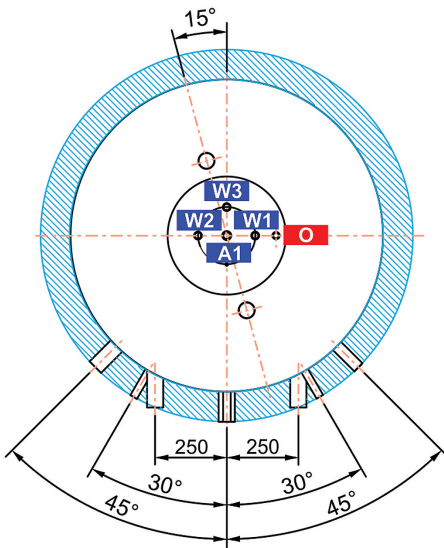
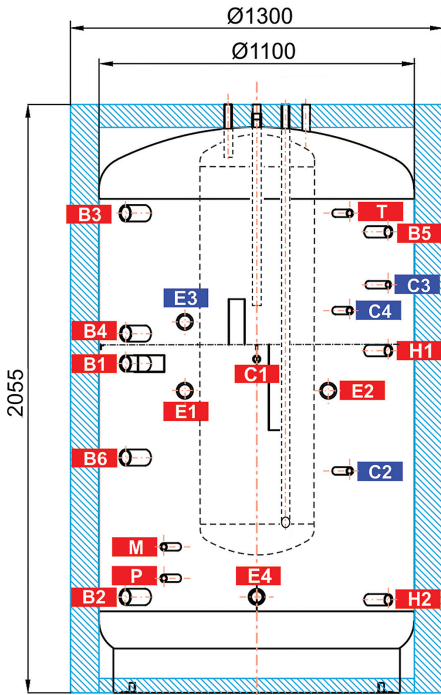
| Heated volume | Temperature in thermal store | Backup heater | Flow rate [l/min] | Hot water volume [l] |
|-------------------|------------------------------|---------------|-------------------|----------------------|
| Entire | 60 °C | 10 kW | 8 | 1238 |
| | | | 12 | 562 |
| | | | 20 | 347 |
| Entire | 60 °C | none | 8 | 791 |
| | | | 12 | 468 |
| | | | 20 | 326 |
| Above metal sheet | 60 °C | 10 kW | 8 | 271 |
| | | | 12 | 242 |
| | | | 20 | 220 |
| Entire | 80 °C | none | 8 | 1410 |
| | | | 12 | 1077 |
| | | | 20 | 667 |

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 6/4" F | 1150 |
| B2 | Return to heat source | G 6/4" F | 335 |
| B3 | Supply from heat source | G 6/4" F | 1675 |
| B4 | Return to heat source | G 6/4" F | 1255 |
| B5 | Supply from heat source | G 1" F | 1610 |
| B6 | Supply from heat source | G 6/4" F | 820 |
| Heating system | | | |
| H1 | Flow to heating system | G 1" F | 1195 |
| H2 | Return from heating system | G 1" F | 325 |
| Electric heating element | | | |
| E1 | El. heating element (DHW) | G 6/4" F | 1055 |
| E2 | El. heating element (space heating) | G 6/4" F | 1055 |
| E3 | El. heating element (space heating) | G 6/4" F | 1295 |
| E4 | El. heating element (for PV system) | G 6/4" F | 335 |
| DHW heating | | | |
| W1 | Cold water | G 3/4" F | 2055 |
| W2 | Domestic hot water | G 3/4" F | 2055 |
| W3 | Recirculation | G 3/4" F | 2055 |
| A1 | Anode | G 3/4" F | 2025 |
| Control and safety | | | |
| C1 | Temperature sensor | G 1/2" F | 1165 |
| C2 | Temperature sensor | G 1/2" F | 775 |
| C3 | Temperature sensor | G 1/2" F | 1425 |
| C4 | Temperature sensor | G 1/2" F | 1335 |
| T | Thermometer | G 1/2" F | 1675 |
| M | Pressure gauge | G 1/2" F | 510 |
| P | Safety valve | G 1/2" F | 400 |
| Air discharge | | | |
| O | Air vent valve | G 1/2" F | 2055 |