

HSK 1000 P Combination Thermal Store

HSK 1000 P

HSK 1000 P with insulation


Main features

| | |
|---------------|---|
| Application | accumulation of thermal energy for space and DHW heating |
| Description | combination thermal store with DHW heating in an integrated stainless-steel heat exchanger, fitted with a tight separating metal plate that increases Seasonal coefficient of performance (SCOP) of a heat pump |
| Working fluid | water (DHW heat exchanger) water; water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1) (thermal store) |

Code

| | |
|---------------|--------------|
| Thermal Store | 14555 |
| Insulation | 18843 |

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

| HSK 1000 P with insulation | |
|----------------------------|-------|
| Energy efficiency class | N/A |
| Standing loss | 129 W |
| Storage volume | 925 l |

Technical Data

| | |
|---|------------------|
| Total tank volume | 925 l |
| Fluid volume in tank | 904 l |
| Fluid volume above the separating plate | 314 l |
| Fluid volume below the separating plate | 590 l |
| DHW heat exchanger volume | 21 l |
| DHW heat exchanger surface area | 6 m ² |
| Max. working temperature in Thermal Store | 95 °C |
| Max. working temperature in DHW HE | 95 °C |
| Max. working pressure in Thermal Store | 4 bar |
| Max. working pressure in DHW HE | 10 bar |

Tank Materials

| | |
|-----------------------------|------------|
| Tank material | S235JR |
| DHW heat exchanger material | AISI 316 L |

Insulation Materials

| | |
|---|------------------|
| Tank perimeter insulation | fleece |
| Tank perimeter insulation outer surface | hard polystyrene |
| Top and bottom tank insulation | fleece |

Dimensions, Tipping height, Insulation thickness, Weight

| | |
|-------------------------------------|---------|
| Tank diameter | 800 mm |
| Tank diameter with insulation | 1000 mm |
| Tank overall height | 2080 mm |
| Tipping height without insulation | 2120 mm |
| Tank perimeter insulation thickness | 100 mm |
| Bottom insulation thickness | 50 mm |
| Top insulation thickness | 120 mm |
| Empty weight without insulation | 130 kg |

HSK 1000 P Combination Thermal Store

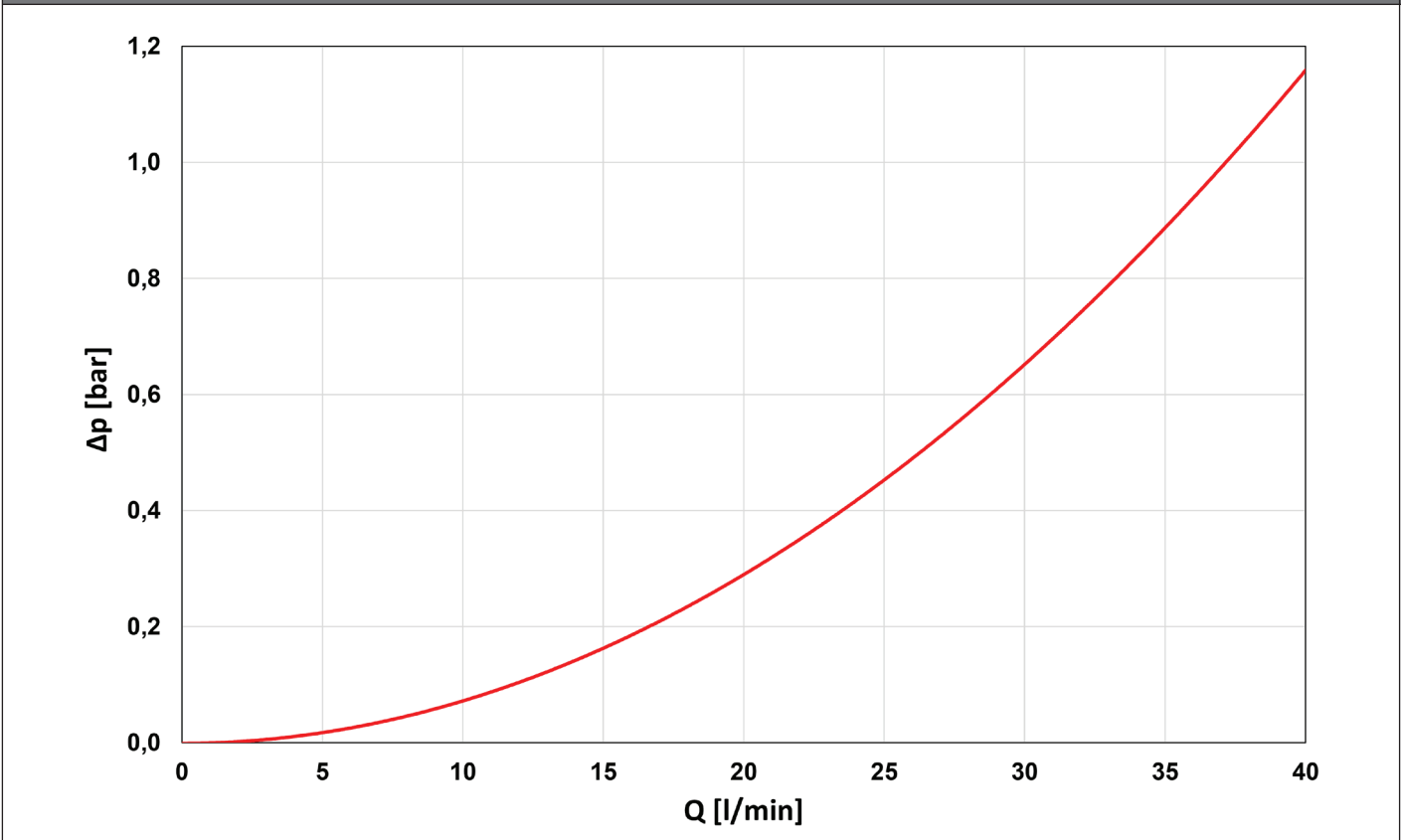
Accessories

| | |
|------------------------------------|------------------|
| El. heating element (models) | ETT-C, P, M |
| Heating elem. max. length / output | 4x 755 mm / 9 kW |

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

| Heated volume | entire | | | entire | | | above metal sheet | | | entire | | | entire | | | above metal sheet | | | entire | | |
|-----------------------------|------------|------------|------------|------------|------------|------------|-------------------|------------|------------|-------------|------------|------------|------------|------------|------------|-------------------|------------|------------|------------|------------|------------|
| Temperature in tank | 50 °C | | | 50 °C | | | 50 °C | | | 60 °C | | | 60 °C | | | 60 °C | | | 80 °C | | |
| Backup heater | 10 kW | | | none | | | 10 kW | | | 10 kW | | | none | | | 10 kW | | | none | | |
| Flow rate [l/min] | 8 | 12 | 20 | 8 | 12 | 20 | 8 | 12 | 20 | 8 | 12 | 20 | 8 | 12 | 20 | 8 | 12 | 20 | 8 | 12 | 20 |
| Hot water volume [l] | 342 | 303 | 238 | 277 | 243 | 146 | 209 | 178 | 114 | 1086 | 672 | 698 | 592 | 523 | 546 | 394 | 281 | 264 | 993 | 948 | 844 |

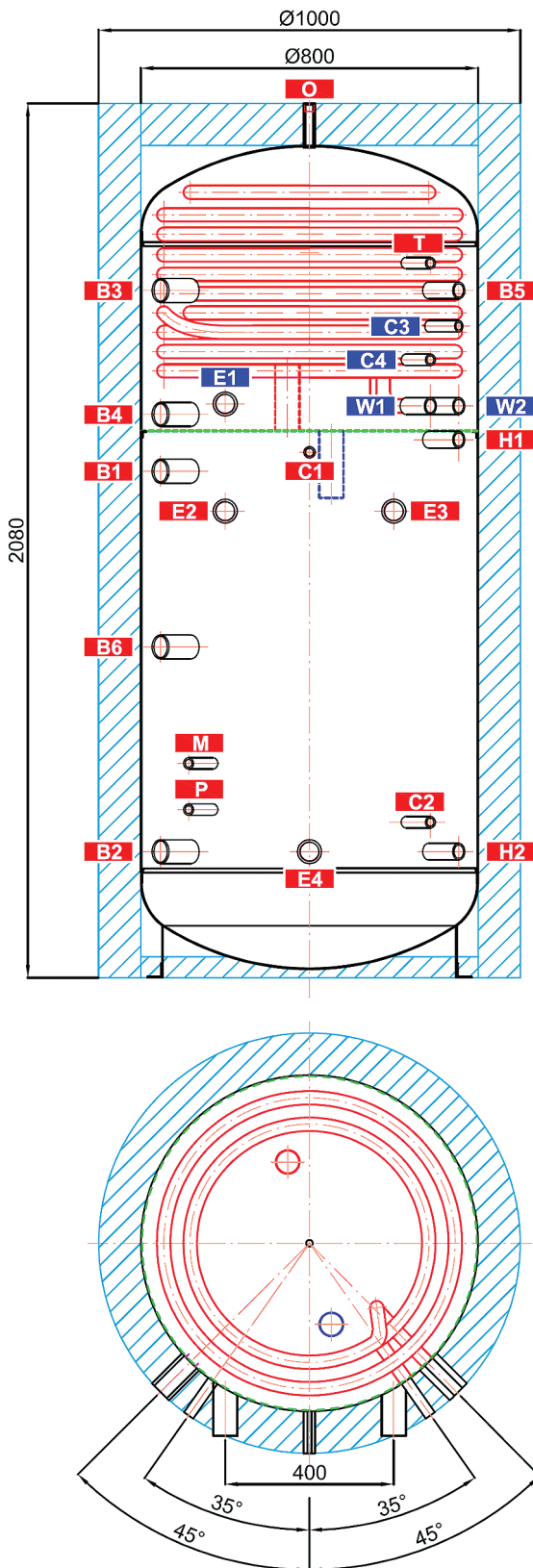
DHW heat exchanger pressure drop graph



HSK 1000 P Combination Thermal Store

Dimensions

Tipping height without insulation 2110 mm



TAPPINGS

| pos. | description | connec-tion | height [mm] |
|-----------------------------|--|-------------|-------------|
| Heat sources | | | |
| B1 | Incoming from heat source | G 6/4" F | 1205 |
| B2 | Return to heat source | G 6/4" F | 300 |
| B3 | Incoming from heat source | G 6/4" F | 1635 |
| B4 | Return to heat source | G 6/4" F | 1340 |
| B5 | Incoming from heat source | G 1" F | 1635 |
| B6 | Incoming from heat source | G 6/4" F | 787 |
| Heating circuit | | | |
| H1 | Supply to the heating circuit | G 1" F | 1280 |
| H2 | Returnable from the heating circuit | G 1" F | 300 |
| El. heating elements | | | |
| E1 | Electric heating element for DHW heating | G 6/4" F | 1365 |
| E2 | Electric heating element for space heating | G 6/4" F | 1110 |
| E3 | Electric heating element for space heating | G 6/4" F | 1110 |
| E4 | Electric heating element for PV system | G 6/4" F | 300 |
| DHW heating | | | |
| W1 | Cold water | G 1" M | 1360 |
| W2 | Hot water | G 1" M | 1360 |
| Control and safety | | | |
| C1 | Temperature sensor | G 1/2" F | 1250 |
| C2 | Temperature sensor | G 1/2" F | 370 |
| C3 | Temperature sensor | G 1/2" F | 1550 |
| C4 | Temperature sensor | G 1/2" F | 1470 |
| T | Thermometer | G 1/2" F | 1700 |
| M | Pressure gauge | G 1/2" F | 510 |
| P | Safety valve | G 1/2" F | 400 |
| O | Air vent valve | G 1/2" F | 2080 |