**Transmission station Regudis H-M**

**For the connection of a variable temperature heating circuit (surface heating)**

OVENTROP transmission station Regudis H-M with plate heat exchanger for the indirect transmission of heat from a local or district heating network to the potable water and heating system of detached houses or multiple occupancy dwellings.

With electronic controller for the weather guided control of the flow temperature of the heating system and simultaneous limitation of the return temperature to the local/district heating network.

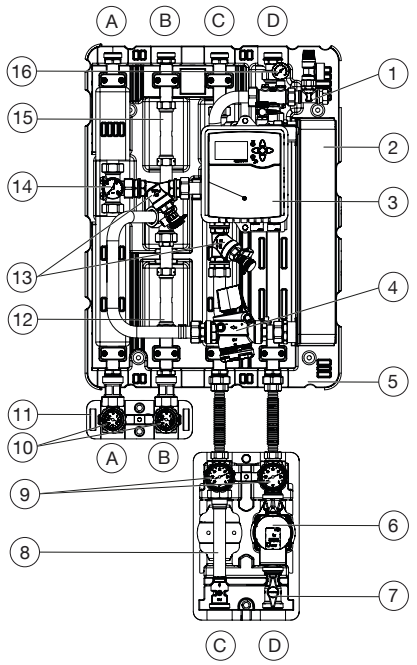
With pump group Regumat S and electric pipe contact safety switch for the connection of a variable temperature heating circuit (surface heating).

Free choice of potable water priority function or parallel operation with the heating circuit. A potable water storage cylinder with internal heat exchanger can be connected to the primary side.

For use in closed local and district heating networks, for operation with non-aggressive, harmless fluids (e.g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

The station is supplied with mounted functional modules and is completely parameterized and tested at works.

*Illust. 1: Transmission station Regudis H-M*

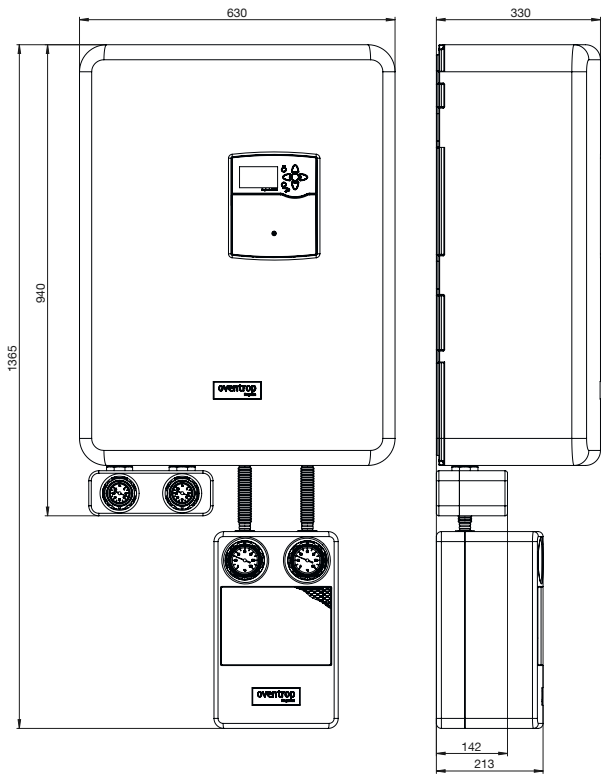



*Illust. 2: Construction of the Regudis H-M*

| | |
|---|---|
| **(1)** | Safety group |
| **(2)** | Heat exchanger |
| **(3)** | Electronic controller |
| **(4)** | Pressure independent control valve Cocon QTZ with actuator |
| **(5)** | Rear insulation shell |
| **(6)** | Pump |
| **(7)** | Ball valve with handle |
| **(8)** | Flanged pipe with check valve |
| **(9)** | Ball valve with thermometer inside the handle |
| **(10)** | Thermometer |
| **(11)** | Rear insulation shell |
| **(12)** | Spacer for heat meter |
| **(13)** | Strainer with venting and draining valve |
| **(14)** | Pressure gauge |
| **(15)** | Spacer for heat meter |
| **(16)** | Pressure gauge |
| **Connections** | |
| **A** | Primary circuit supply |
| **B** | Primary circuit return |
| **C** | Secondary circuit supply |
| **D** | Secondary circuit return |

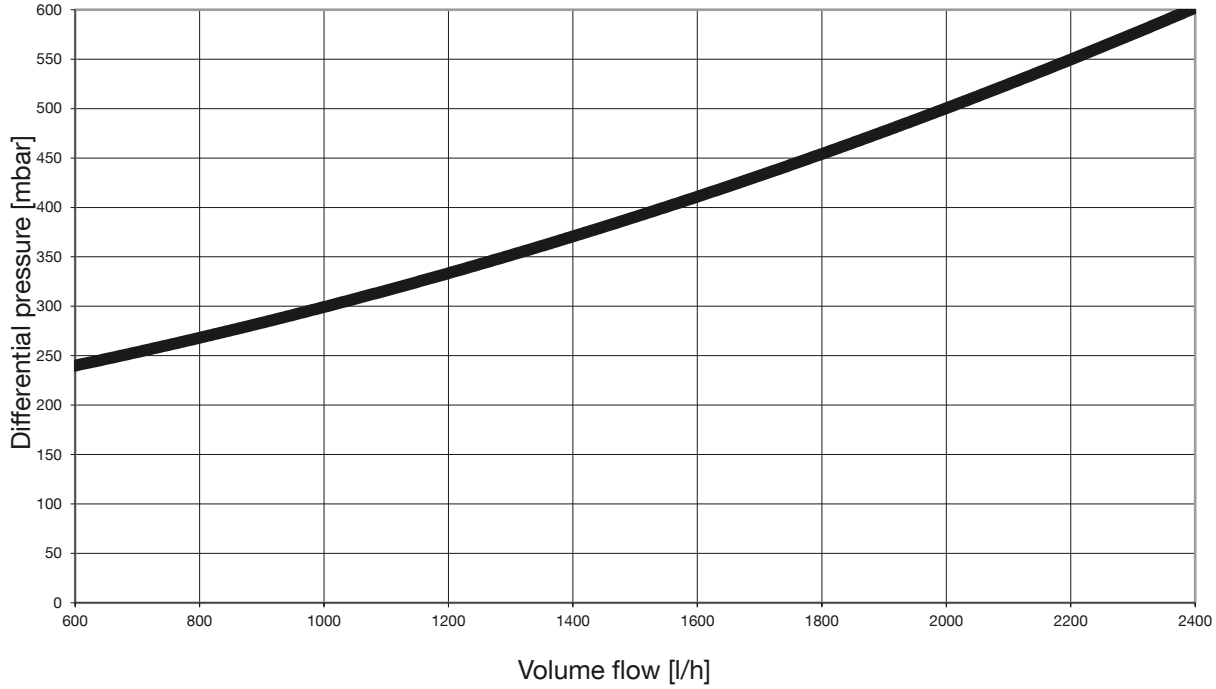
| General information | | |
|---|---|---|
| **Item no.** | 1392031 | |
| **Designation** | Regudis H-M | |
| **Nominal size** | DN25 | |
| **Max. operating temperature ts** | 95°C | |
| **Max. operating pressure ps** | 10 bar | |
| **Min. operating pressure ps** | 1 bar | |
| **Max. primary differential pressure** | 6 bar | |
| **Ambient temperature T** | 2-35°C | |
| **Empty weight** | | |
| **Regudis H-M** | 48,28 kg | |
| **Hydronic performance data** | | |
| **Safety valve secondary side** | 3 bar | |
| **Max. primary volume flow** | 4800 l/h | |
| **Display range of the pressure gauge** | 0 - 16 bar | |
| **Operating fluids** | Water / mixtures of water and glycol | |
| **Dimensions** | | |
| **Regudis H-M** | Width x Height x Depth (in mm) | 630 x 1365 x 330 |
| **Connections to the pipework** | | |
| **Transmission station** | Flat sealing male thread G 1 ¼ | |
| **Ball valve connection set** | Flat sealing male thread G1 ½ | |
| **Regumat** | Flat sealing male thread G1 ½ | |
| **Electrical performance data** | | |
| **Operating voltage controller** | 230 V AC, 50-60 Hz | |
| **Actuator** | Closed with current off, 24 V DC, control voltage 0-10 V | |
| **Material** | | |
| **Valves and fittings** | Brass, bronze | |
| **Seals** | Fibre materials; EPDM | |
| **Base plate** | Galvanised steel | |
| **Thermal insulation** | EPP | |

| | |
|---|---|
| **Heat exchanger** | Plate material: stainless steel 1.4401 |
| | Connections: Stainless steel 1.4404 |
| | Brazing material: Copper |
| **Pipes** | Stainless steel 1.4404 |
| **Spacers** | Stainless steel 1.4404 |

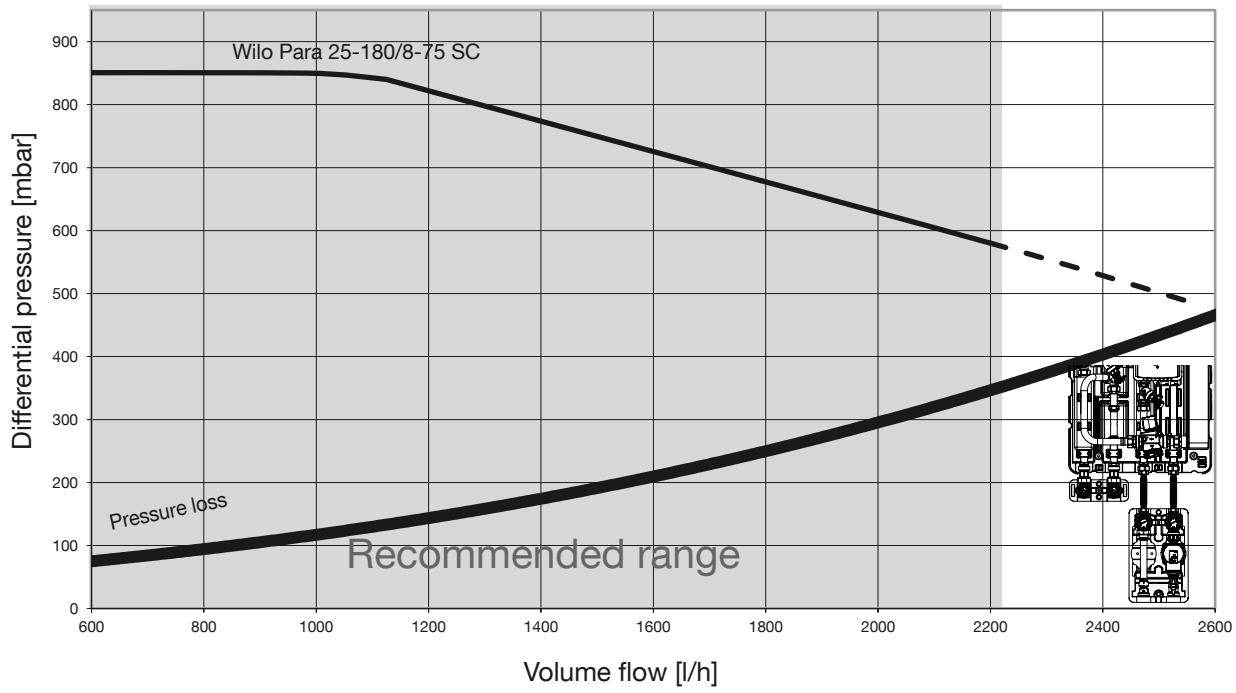



*Illust. 3: Dimensions in mm*

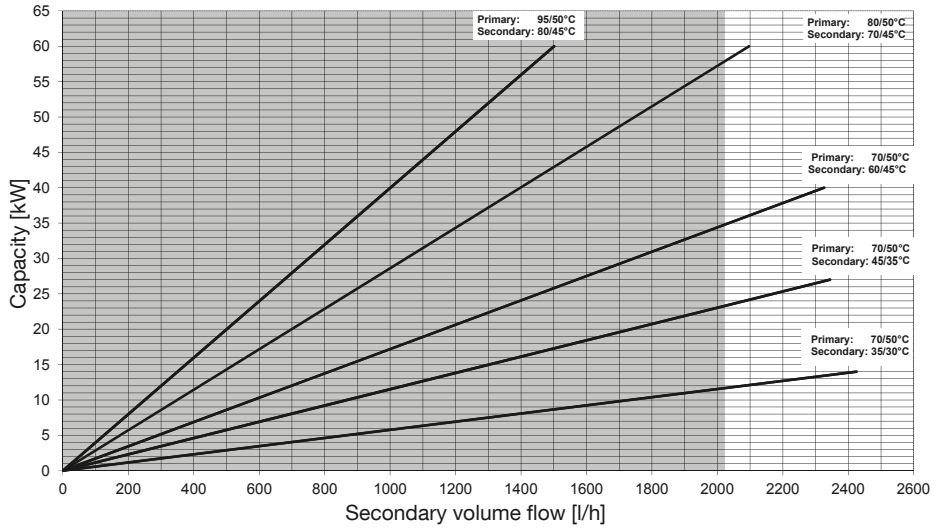
| Designation | Item no. |
|---|---|
| **Accessories** | |
| Monovalent potable water storage cylinder Hydrocor WM | 1395010 |
| | 1395011 |
| | 1395012 |
| Diaphragm expansion tank | 1399091 |
| | 1399092 |
| Extension module Regtronic EM | 1152098 |
| Connection set | 1399080 |



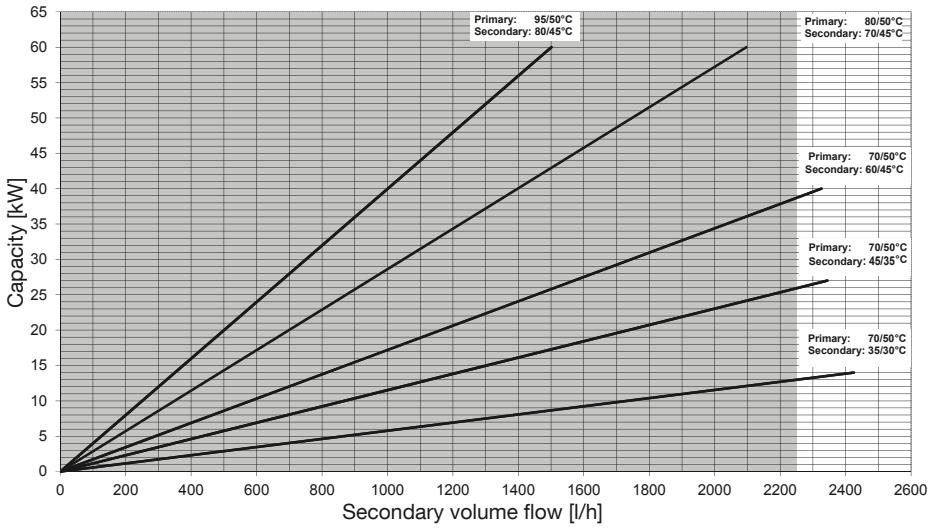

*Illust. 4: Pressure loss primary circuit Regudis H*



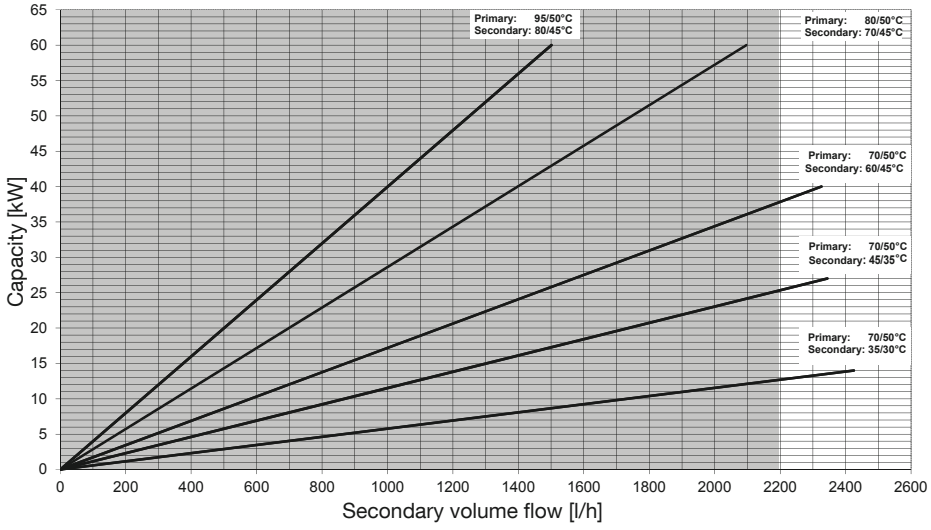

*Illust. 5: Pressure loss secondary circuit Regudis H-M*




*Illust. 6: Performance chart; recommended max. volume flow Regudis H in combination with HT switching module*




*Illust. 7: Performance chart; recommended max. volume flow Regudis H in combination with Regumat S*




*Illust. 8: Performance chart; recommended max. volume flow Regudis H in combination with Regumat M 3*