Data sheet

## **Transmission station Regudis H-H**

## For the connection of a constant temperature heating circuit (radiators)

OVENTROP transmission station Regudis H-H 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.

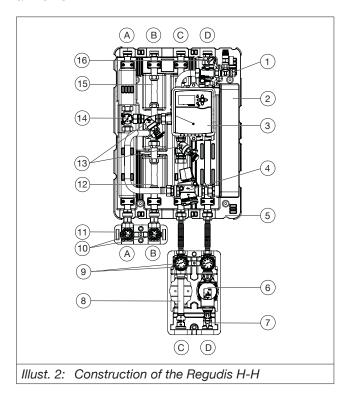
With electronic controller for the weather guided control of the flow temperature of the heating system and simultaneous limitation of the return temperature to the local/district heating network.

With pump group Regumat S for the connection of a constant temperature heating circuit (radiators) or a potable water storage cylinder.

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.



(1)	Safety group	
(2)	Heat exchanger	
(3)	Electronic controller	



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(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
Conr	nections
Α	Primary circuit supply
В	Primary circuit return
С	Secondary circuit supply
D	Secondary circuit return

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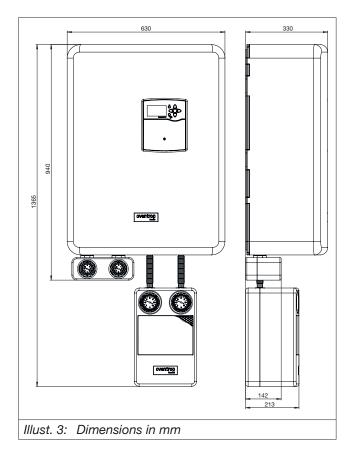


## Transmission station Regudis H-H DN 25

## Data sheet

Tem no.   1391031   Regudis H-H	0 11 6 11				
Designation       Regudis H-H         Nominal size       DN25         Max. operating temperature ts       95°C         Min. 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       48,12 kg         Regudis H-H       48,12 kg         Hydronic performance data       3 bar         Safety valve secondary side       4800 l/h         Max. primary volume flow       4800 l/h         Display range of the pressure gauge       0 - 10 bar         Operating fluids       Water / mixtures of water and glycol         Dimensions       Regudis H-H       Width x Height x Depth (in mm)         Connections to the pipework       Flat sealing male thread G1 ½         Transmission station       Flat sealing male thread G1 ½         Regumat       Flat sealing male thread G1 ½         Regumat       Flat sealing male thread G1 ½         Electrical performance data       230 V AC, 50-60 Hz         Operating voltage controller       230 V AC, 50-60 Hz         Actuator       Closed with current off, 24 V DC, control voltage 0-10 V         Material       Base plate       Galvanised	General information				
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       48,12 kg         Regudis H-H       48,12 kg         Hydronic performance data       3 bar         Safety valve secondary side       3 bar         Max. primary volume flow       4800 l/h         Display range of the pressure gauge       0 - 10 bar         Operating fluids       Water / mixtures of water and glycol         Dimensions       Regudis H-H       Width x Height x Depth (in mm)         Connections to the pipework       Flat sealing male thread G 1 ½         Ball valve connection set       Flat sealing male thread G1 ½         Regumat       Flat sealing male thread G1 ½         Regumat       Flat sealing male thread G1 ½         Regumat       Flat sealing male thread G1 ½         Reductional performance data       Operating voltage control yoltage control yoltage 0-10 V         Material       Valves and fittings       Brass, bronze         Seals       Fibre materials; EPDM         Base plate       Galvan					
Max. operating temperature ts 95°C   Max. operating pressure ps 10 bar   Min. operating pressure ps 1 bar   Max. primary differential pressure 6 bar   Max. primary differential pressure 2-35°C   Ambient temperature T 2-35°C   Empty weight 48,12 kg   Regudis H-H 48,00 l/h   Display range of the pressure gauge 0 - 10 bar   Operating fluids Water / mixtures of water and glycol   Dimensions Water / mixtures of water and glycol   Dimensions 630 x 1365 x 330   Regudis H-H Width x leight x Depth (in mm)   Connections to the pipework Flat sealing male thread G 1 ½   Ball valve connection set Flat sealing male thread G1 ½   Regumat Flat sealing male thread G1 ½   Regumat Flat sealing male thread G1 ½   Electrical performance data Closed with current off, 24 V DC, control voltage 0-10 V   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					
Max. operating pressure ps 10 bar   Min. operating pressure ps 1 bar   Max. primary differential pressure 6 bar   Max. primary differential pressure 2-35°C   Ambient temperature T 2-35°C   Empty weight 48,12 kg   Regudis H-H 48,12 kg   Hydronic performance data 3 bar   Safety valve secondary side 0 - 10 bar   Max. primary volume flow 4800 l/h   Display range of the pressure gauge 0 - 10 bar   Operating fluids Water / mixtures of water and glycol   Dimensions Water / mixtures of water and glycol   Dimensions 630 x 1365 x 330   Regudis H-H Width x Height x Depth (in mm)   Connections to the pipework Flat sealing male thread G 1 ½   Transmission station Flat sealing male thread G1 ½   Regumat Flat sealing male thread G1 ½   Electrical performance data 230 V AC, 50-60 Hz   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					
Min. operating pressure ps  Max. primary differential pressure  Ambient temperature T 2-35°C  Empty weight  Regudis H-H 48,12 kg  Hydronic performance data  Safety valve secondary side  Max. primary volume flow 4800 l/h  Display range of the pressure gauge  Operating fluids Water / mixtures of water and glycol  Dimensions  Regudis H-H Width x Height x Depth (in mm)  Connections to the pipework  Transmission station Flat sealing male thread G 1 ½  Regumat Flat sealing male thread G1 ½  Regumat Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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			95°C	,	
Max. primary differential pressure  Ambient temperature T 2-35°C  Empty weight  Regudis H-H 48,12 kg  Hydronic performance data  Safety valve secondary side  Max. primary volume flow 4800 l/h  Display range of the pressure gauge  Operating fluids Water / mixtures of water and glycol  Dimensions  Regudis H-H Width x Height x Depth (in mm)  Connections to the pipework  Transmission station Flat sealing male thread G 1 ½  Regumat Flat sealing male thread G1 ½  Regumat Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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		re	10 b	ar	
Ambient temperature T 2-35°C  Empty weight  Regudis H-H 48,12 kg  Hydronic performance data  Safety valve secondary side  Max. primary volume flow 4800 l/h  Display range of the pressure gauge  Operating fluids Water / mixtures of water and glycol  Dimensions  Regudis H-H Width x Height x Depth (in mm)  Connections to the pipework  Transmission station Flat sealing male thread G 1 ½  Ball valve connection set Flat sealing male thread G1 ½  Regumat Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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  Associated with current off and current		е	1 ba	r	
Empty weight  Regudis H-H  Hydronic performance data  Safety valve secondary side  Max. primary volume flow Display range of the pressure gauge  Operating fluids  Water / mixtures of water and glycol  Dimensions  Regudis H-H  Width x Height x Depth (in mm)  Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Regumat  Flat sealing male thread G1 ½  Regumat  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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	Max. primary differential		6 bar		
Regudis H-H	Ambient temperature 1	<b>-</b>	2-35	°C	
Hydronic performance data  Safety valve secondary side  Max. primary volume flow Display range of the pressure gauge Operating fluids  Water / mixtures of water and glycol  Dimensions  Regudis H-H  Width x Height x Depth (in mm)  Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Flat sealing male thread G1 ½  Regumat  Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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	Empty weight				
Safety valve secondary side  Max. primary volume flow Display range of the pressure gauge Operating fluids  Water / mixtures of water and glycol  Dimensions  Regudis H-H Width x Height x Depth (in mm)  Connections to the pipework  Transmission station Flat sealing male thread G 1 ½  Ball valve connection set Flat sealing male thread G1 ½  Regumat Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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  O - 10 bar  0 - 10 bar  Flat sealing male thread G10 x 300 x 1365 x 330  Flat sealing male thread G1 ½  Flat sealing mal	Regudis H-H		48,1	2 kg	
Max. primary volume flow Display range of the pressure gauge Operating fluids  Water / mixtures of water and glycol  Dimensions  Regudis H-H Width x Height x Depth (in mm)  Connections to the pipework  Transmission station Flat sealing male thread G 1 ½  Regumat Flat sealing male thread G1 ½  Regumat Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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  O - 10 bar  0 - 10 bar  Acture of water and glycol  Elas sealing male thread G 1 ½  Flat sealing male thread G1 ½  Closed with current off, 24 V DC, control voltage 0-10 V	Hydronic performance	data	1		
Display range of the pressure gauge  Operating fluids  Water / mixtures of water and glycol  Dimensions  Regudis H-H  Width x   630 x 1365 x 330   Height x Depth (in mm)  Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Regumat  Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  Actuator  Closed with current off, 24 V DC, control voltage 0-10 V  Material  Valves and fittings  Brass, bronze  Seals  Fibre materials; EPDM  Galvanised steel	Safety valve secondary				
Operating fluids  Water / mixtures of water and glycol  Dimensions  Regudis H-H  Width x Height x Depth (in mm)  Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Flat sealing male thread G1 ½  Regumat  Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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	Max. primary volume fl	ow	4800 l/h		
Dimensions  Regudis H-H  Width x Height x Depth (in mm)  Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Ball valve connection set Flat sealing male thread G1 ½  Regumat  Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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			0 - 10 bar		
Dimensions   Width x   Height x Depth (in mm)   Flat sealing male thread G 1 ½	Operating fluids		Water / mixtures of		
Regudis H-H  Width x Height x Depth (in mm)  Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Flat sealing male thread G1 ½  Regumat  Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  Actuator  Closed with current off, 24 V DC, control voltage 0-10 V  Material  Valves and fittings  Brass, bronze  Seals  Fibre materials; EPDM  Galvanised steel			wate	er and glycol	
Height x Depth (in mm)  Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Regumat  Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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	Dimensions				
Connections to the pipework  Transmission station  Flat sealing male thread G 1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  Actuator  Closed with current off, 24 V DC, control voltage 0-10 V  Material  Valves and fittings  Brass, bronze  Seals  Fibre materials; EPDM  Galvanised steel	Regudis H-H	Heig x De	ght epth	630 x 1365 x 330	
Transmission station Flat sealing male thread G 1 ½  Ball valve connection set Flat sealing male thread G1 ½  Regumat Flat sealing male thread G1 ½  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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	Connections to the pip	•			
Ball valve connection set Flat sealing male thread G1 ½  Regumat Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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			Flat	•	
thread G1 ½  Regumat  Flat sealing male thread G1 ½  Electrical performance data  Operating voltage controller  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	Pall valve connection of				
thread G1 ½  Electrical performance data  Operating voltage controller  Actuator  Closed with current off, 24 V DC, control voltage 0-10 V  Material  Valves and fittings  Brass, bronze  Seals  Fibre materials; EPDM  Galvanised steel	Ball valve connection's	Ball valve connection set		thread G1 ½	
Operating voltage controller  Actuator  Closed with current off, 24 V DC, control voltage 0-10 V  Material  Valves and fittings  Brass, bronze  Seals  Fibre materials; EPDM  Galvanised steel	Regumat	Regumat		_	
troller  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	Electrical performance data				
off, 24 V DC, control voltage 0-10 V  Material  Valves and fittings Brass, bronze  Seals Fibre materials; EPDM  Base plate Galvanised steel			230 V AC, 50-60 Hz		
Valves and fittingsBrass, bronzeSealsFibre materials; EPDMBase plateGalvanised steel	Actuator		off, 24 V DC, control		
Seals Fibre materials; EPDM  Base plate Galvanised steel	Material				
Base plate Galvanised steel	Valves and fittings		Brass, bronze		
2400 p.u.o	Seals		Fibre materials; EPDM		
Thermal insulation EPP	Base plate		Galvanised steel		
	Thermal insulation		EPP		

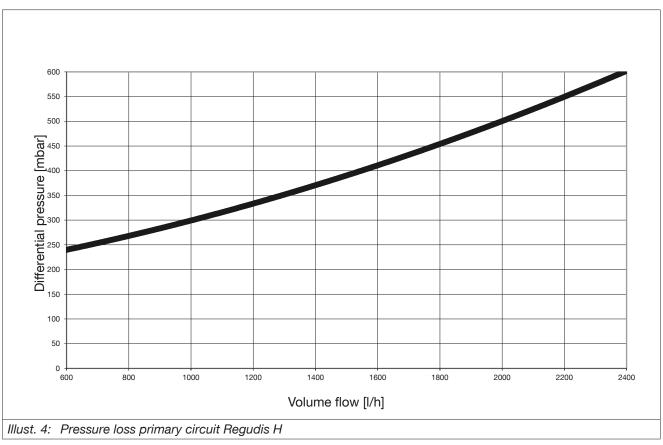
Heat exchanger	Plate material: stain- less steel 1.4401	
	Connections: Stainless steel 1.4404	
	Brazing material: Copper	
Pipes	Stainless steel 1.4404	
Spacers	Stainless steel 1.4404	

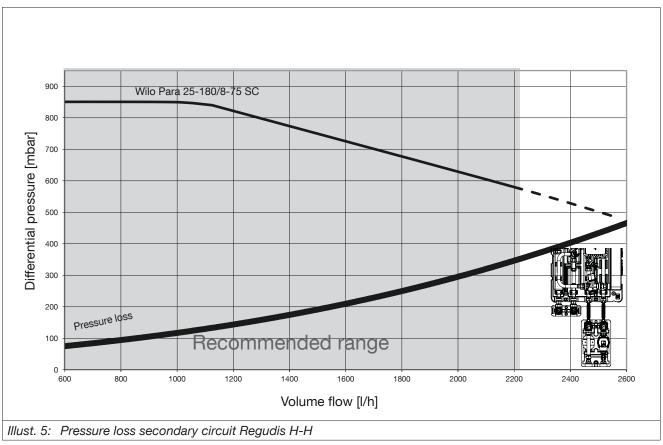


Designation	Item no.
Accessories	
Monovalent potable water stor-	1395010
age cylinder Hydrocor WM	1395011
	1395012
Diaphragm expansion tank	1399091
	1399092
Extension module Regtronic EM	1152098
Connection set	1399080

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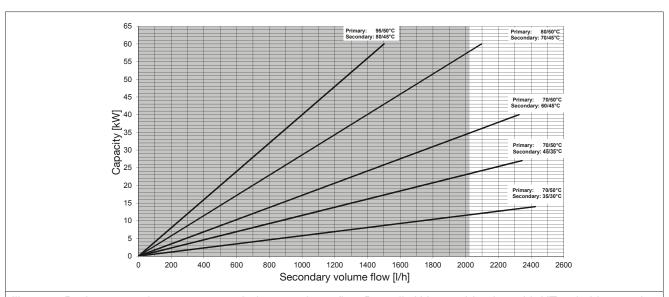
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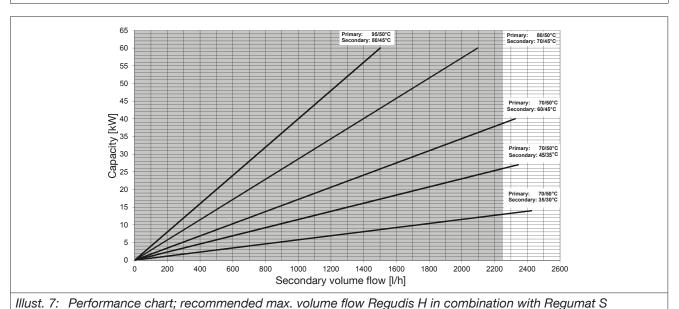


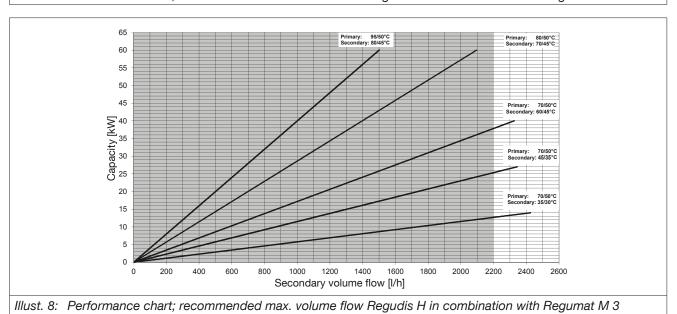
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Data sheet



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





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