Data sheet



Instantaneous water heater module

Extension module for Regudis W-HTE



Instantaneous water heater module for electronic reheating of the potable water, which can be installed as an optional extension module to the Regudis W-HTE home station in order to heat the potable water temperature to a higher value than that achievable by the heating water temperature.

The Regudis W-HTE dwelling station heats the potable water depending on the heating water quantity and the heating water temperature. If the heat output transferred to the potable water by the station is not sufficient to reach the desired potable water temperature, the temperature is increased to the set value by the instantaneous water heater module, which is only suitable for reheating.

The electronics of the instantaneous water heater regulate the heating capacity depending on the selected outlet temperature, the respective inlet temperature and the flow rate. The desired outlet temperature can be set by pressing a key and be read on the LCD display.

Features

- + Efficient operation of heat pumps
- + Easy installation in a two pipe system
- + Compatibility with the existing product range

Technical data

Rated power	11 / 13.5 kW 16 / 19.5 A 1.5 mm ² / 2.5 mm ²		
Rated current			
Required min. cable cross- section			
Nominal voltage	3~ / PE 380415 V AC		
Frequency	50 / 60 Hz		
Connection	Fixed connection		
Energy efficiency class according to UE Regulation No. 812/2013	A		
Protection class according to VDE	I		
Protection category	IP 24		

Product details

Technical data

General data

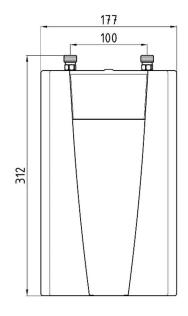
Jeneral data				
Connection	G 1/2			
Dimensions (W x H x D)	177 x 294 x 108 mm			
Casing colour	White			
Flow limiter	Without			
Control range	20 °C to 60 °C			
Max. operating temperature	60 °C			
Max. ambient temperature	60 °C			
Max. storage temperature	60 °C			
Max. ambient humidity	<70% not condensing			
Max. operating pressure	10 bar			
Pressure loss at 11 l/min	1.8 bar			
Switch-on water volume	2 l/min			
Nominal draw off capacity (potable water heating 35 °C/50 °C)	11 l/min			

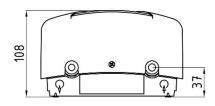
Draw off capacity for a mixing temp. of 42 °C with potable water heating 35 °C/50 °C with 11 l/min	14 l/min	
Max. draw off capacity	15 l/min	
Max. Power Regudis W-HTE Performance range 3 with instantaneous water heater module (potable water heating 10 °C/50 °C)	42 kW	
Application range electrical conductivity at 15 °C	≤ 1000 μS/cm	
Construction	Pressure-resistant	
Nominal content	0.31	
Weight (with water filling)	2.7 kg	

Applications

The instantaneous water heater module is intended as an extension module for the Regudis W-HTE dwelling station performance range 3, without potable water circulation module. It is suitable for wall mounting and, in combination with the enclosed connection and piping set, for mounting in suitable Oventrop cabinets. The instantaneous water heater module serves as an electronic reheater for potable water. Any other use of the product will be considered incorrect use.

Dimensions





1344560

1344561

Selection

Item numbers

Instantaneous water heater module

For electronic reheating of potable water

Description Item no.



Accessories

Connection and piping set

Description Item no.

For Regudis W-HTE instantaneous water heater module, for fixing and piping in a cabinet



Suitable components for cabinet mounting



Product	Item no.	
Surface- / Flush mounted cabinet for Regudis W-HTE	1344699 / 1344599	
Dwelling station Regudis W-HTE performance range 3	1344032 / 1344052	
Connection and shutoff set for Regudis W-HTE	1344680	
Instantaneous water heater module for Regudis W-HTE	1344560	
Connection and piping set for instantaneous water heater module	1344561	
Multidis SF Heating circuit distributor/collector	1406352 - 1406358	
Aktor T 2P Actuator	1012452	
Electrical connecting block for surface heating	1400983	

Design

When designing the Regudis W-HTE dwelling station in conjunction with the instantaneous water heater module and the connection and piping set, the following points must be observed:

Electrical connection

- Following DIN 18015-1:2007-09, the cross-section, type and number of main cables must be determined depending on the number and expected simultaneity of the devices.
- The connection requirements are to be coordinated with the energy supply company.
- The instructions in the chapter "Electrical connection", in particular the paragraph "Connection to fixed cable" in the enclosed "Installation instructions for qualified tradespeople" must be observed.
- The connecting cable must have a conductor cross-section of at least 2.5 mm² with a rated power of 13.5 kW.

Potable water

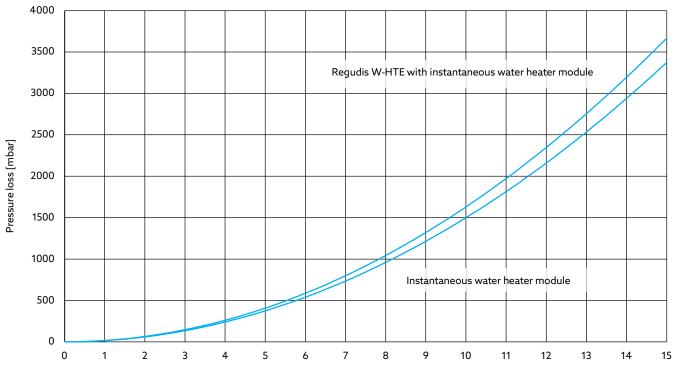
- It is recommended to use the instantaneous water heater module with the Regudis W-HTE dwelling station performance range 3, as the pressure losses and the excess temperature are very low here.
- The instantaneous water heater module is not suitable for circulation operation.
- The instantaneous water heater module is approved for a maximum volume flow of up to approx. 15 l/min. If this value can be exceeded in the system constellation, damage can be caused to the instantaneous water heater module. A flow limiter, item no. 1349981, must be installed.

Surface heating

- The flow temperature must be adjusted to the surface heating system.
- The integrated cabinet mounting is only intended in connection with the Oventrop cabinets, item no. 1344599 and 134469.
 The maximum number of heating circuits here is limited to 8. The compact design with 110 mm installation depth in conjunction with the Regudis W-THE dwelling station is retained. If more than 8 heating circuits are required, the instantaneous water heater module must be mounted outside the cabinet.
- With integrated cabinet mounting, a differential pressure of up to 150 mbar and a volume flow of up to 600 l/h is possible in the heating circuit. This results in approximately 4800 W at a system temperature of 35/28 °C.
 For a higher differential pressure and volume flow, a flow temperature control module with its own pump, item number 1344550, is required. This expands the Regudis W-HTE dwelling station to include thermostatic flow temperature control. In these cases, too, the instantaneous water heater module must be installed outside the cabinet due to the limited space available.

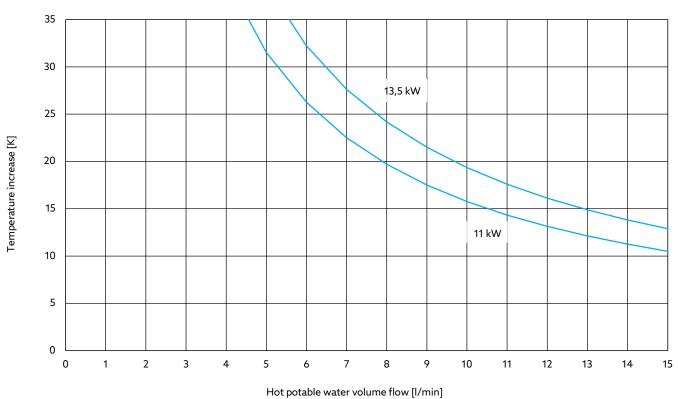
Charts

Pressure loss chart



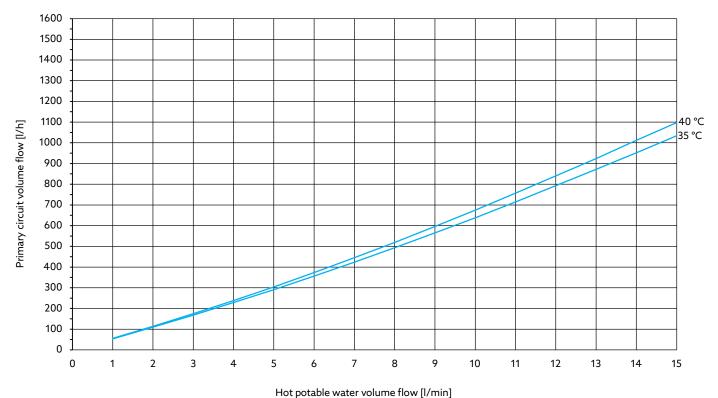
Hot potable water volume flow [I/min]

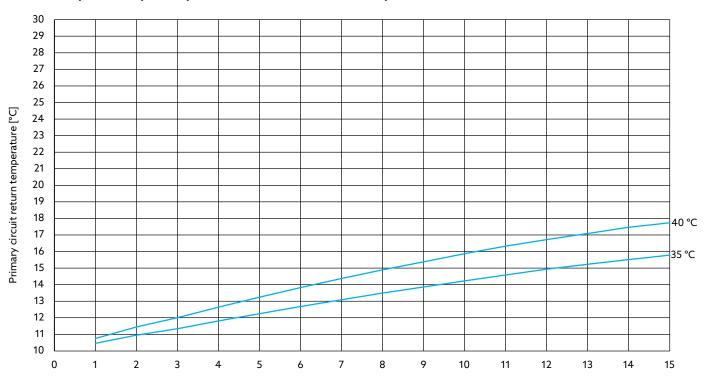
Performance chart



Heating of potable water from 10 °C to 45 °C (performance data according to SPF test procedure)

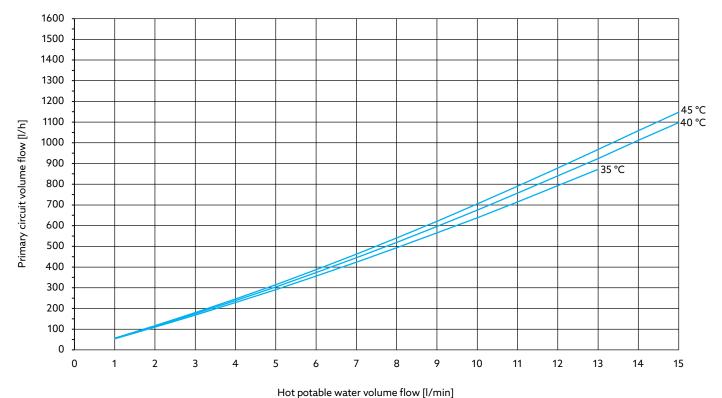
Volume flow primary circuit at different flow temperatures

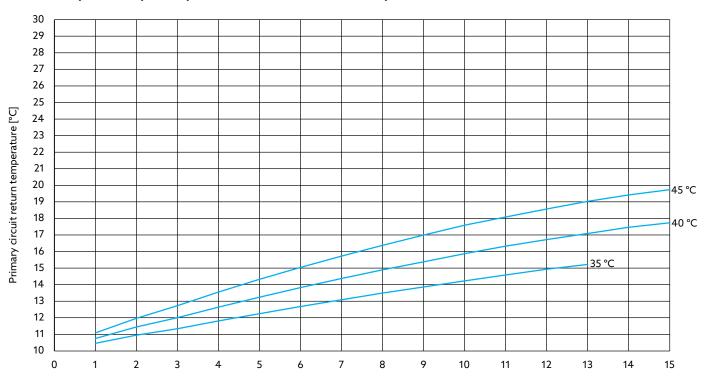




Heating of potable water from 10 °C to 50 °C (performance data according to SPF test procedure)

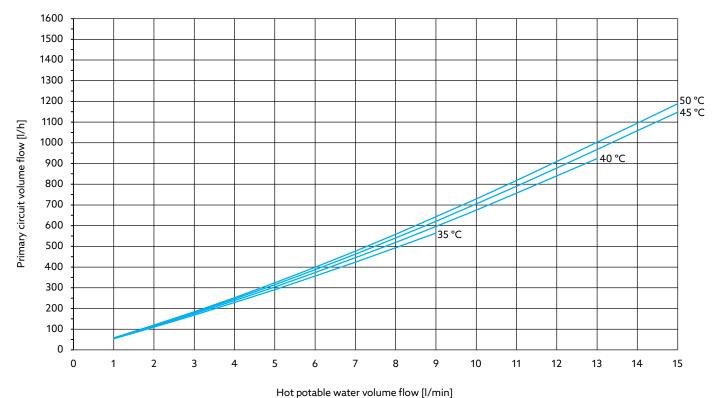
Volume flow primary circuit at different flow temperatures

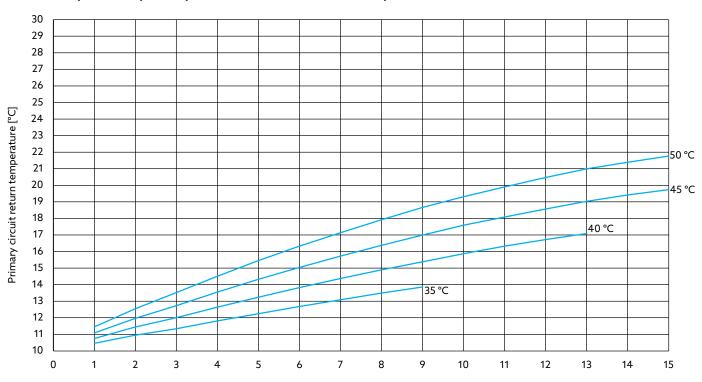




Heating of potable water from 10 °C to 55 °C (performance data according to SPF test procedure)

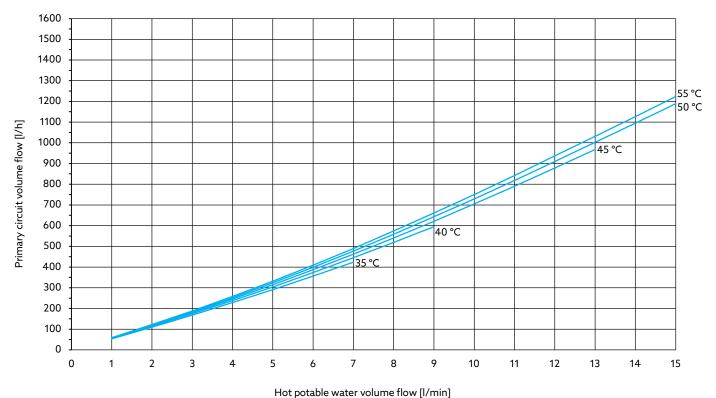
Volume flow primary circuit at different flow temperatures

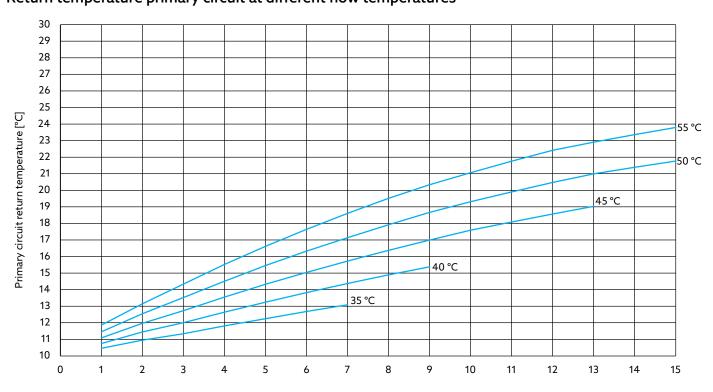




Heating of potable water from 10 °C to 60 °C (performance data according to SPF test procedure)

Volume flow primary circuit at different flow temperatures





Hot potable water volume flow [l/min]

Mixing temperatures with different hot potable water volume flow rates

Regudis W-HTE PR 3 with Instantaneous water heater module (13.5 kW)

Heating of potable water from 10 °C to 50 °C (performance data according to SPF test procedure)

Hot potable water volume flow [l/min]	Pressure loss [mbar]	Hot potable water volume flow [I/min] at mixing temperature 38 °C	Hot potable water volume flow [l/min] at mixing temperature 40 °C	Hot potable water volume flow [l/min] at mixing temperature 42 °C
0		-	-	-
1	16	1.4	1.3	1.3
2	65	2.9	2.7	2.5
3	147	4.3	4.0	3.8
4	261	5.7	5.3	5.0
5	407	7.1	6.7	6.3
6	587	8.6	8.0	7.5
7	799	10.0	9.3	8.8
8	1043	11.4	10.7	10.0
9	1320	12.9	12.0	11.3
10	1630	14.3	13.3	12.5
11	1972	15.7	14.7	13.8
12	2347	17.1	16.0	15.0
13	2754	18.6	17.3	16.3
14	3194	20.0	18.7	17.5
15	3667	21.4	20.0	18.8

