

DeltaTherm® HC



Heat upon
request!

With screed drying function!

The **DeltaTherm® HC** can control a weather-compensated heating circuit, the DHW loading and the afterheating demand for both.

With up to five extension modules, further heating circuits, additional DHW functions such as **circulation** or **thermal disinfection**, and the efficient implementation of further heat sources can be controlled.

Due to the **flexible application and extension possibilities**, the heating controller is also ideal for larger objects such as apartment houses, residential homes and industrial buildings.

- 9 pre-configured basic systems
- Pre-programmed optional functions
- Up to 5 EM extension modules can be connected via the RESOLVBus® (39 sensors and 30 relays in total), up to 6 mixed heating circuits
- 2 inputs for digital Grundfos Direct Sensors™
- 2 PWM outputs for speed control of high-efficiency pumps
- Data logging, storing and firmware updates via SD memory card
- Unit °F and °C selectable

RESOL **DeltaTherm® HC**

Price bracket A | Article no.: **115 002 53**

RESOL **DeltaTherm® HC – full kit**

Incl. 5 Pt1000 temperature sensors (1 x FAP13, 1 x FRP21, 3 x FRP6)

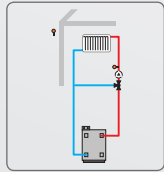
Price bracket A | Article no.: **115 002 63**

Customised and OEM versions are available on request. Please contact our sales team.

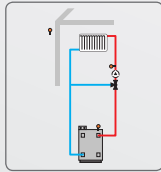
Menu languages:



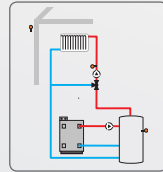
Examples



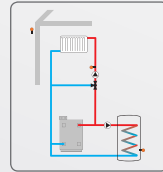
1 mixed heating circuit



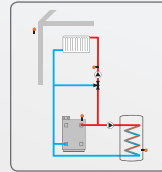
1 mixed heating circuit with afterheating (demand)



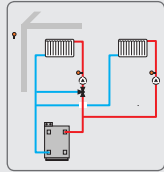
1 mixed heating circuit with afterheating (demand and boiler loading pump)



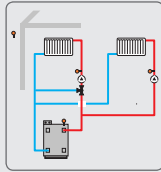
1 mixed heating circuit with DHW heating (loading pump)



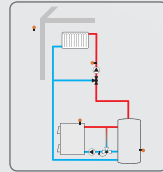
1 mixed heating circuit with DHW heating and afterheating (demand for heating circuit and DHW)



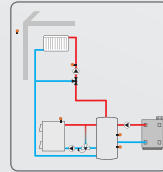
1 mixed and one un-mixed heating circuit



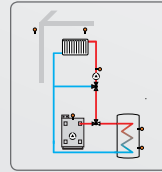
1 mixed and one un-mixed heating circuit with afterheating (demand)



1 mixed heating circuit with solid fuel boiler

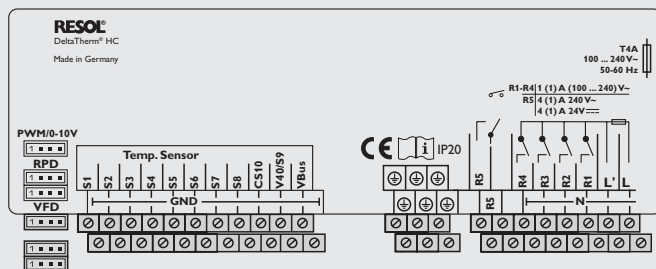


1 mixed heating circuit with solid fuel boiler and afterheating (demand)



1 mixed heating circuit with DHW heating (3-port valve)

Electrical connection



Accessories



RESOL EM
Sensor and relay Extension Module with 5 outputs and 6 inputs

Price bracket A | Article no.: **145 440 80**



RESOL Datalogger DL2
Datalogger incl. RESOL Service CD, SD card and LAN cable, mains adapter and VBus® cable pre-connected

Price bracket A | Article no.: **180 007 10**



RESOL Datalogger DL3
Datalogger incl. RESOL Service CD, SD card, mains adapter, LAN and VBus® cable

Price bracket A | Article no.: **180 009 90**



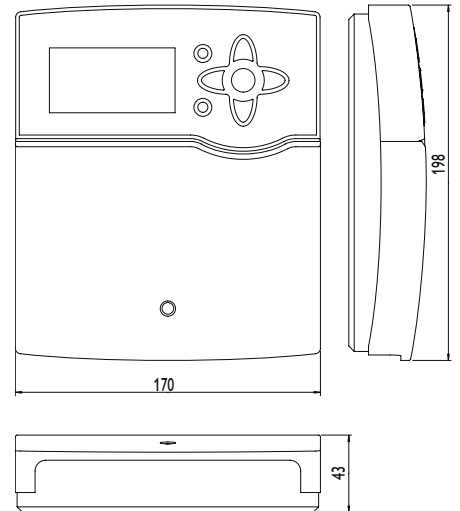
VFD / RPD Grundfos Direct Sensor™
Digital sensors in different versions



RESOL AM1
Alarm module for signalling system failures

Price bracket B | Article no.: **180 008 70**

Technical data



Inputs: 8 (9) inputs for Pt500, Pt1000 or KTY temperature sensors, 1 V40 impulse input, inputs for 2 digital Grundfos Direct Sensors™*, 1 input for a CS10 irradiation sensor

Outputs: 4 semiconductor relays, 1 potential-free relay, 2 PWM outputs

PWM frequency: 1000 Hz

PWM voltage: 10,5 V

Switching capacity:

1 (1) A 240 V~ (semiconductor relay)

4 (1) A 240 V~ (potential-free relay)

4 (1) A 24 V=== (potential-free relay)

Total switching capacity: 4 A 240 V~

Power supply: 100... 240 V~ (50... 60 Hz)

Supply connection: type y attachment

Power consumption: < 1 W (standby)

Mode of operation: type 1.B.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: RESOL VBus®, SD card slot

VBus® current supply: 60 mA

Functions: screed drying, weather-compensated heating circuit control, afterheating, DHW heating with priority logic, circulation, thermal disinfection, heat quantity measurement, optional functions such as solid fuel boiler, return preheating, etc.

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting, mounting into patch panels is possible

Indication/Display: full graphic display, control lamp (directional pad) and background illumination

Operation: 7 push buttons at the front

Ingress protection: IP 20 / EN 60529

Protection class: I

Ambient temperature: 0... 40 °C

Pollution degree: 2

Dimensions: 198 x 170 x 43 mm

*For the digital inputs, the following sensor combinations are possible:

- 1 x RPD, 1 x VFD

- 2 x VFD, but with different measuring ranges only