



DeltaTherm® HC MAX

The DeltaTherm® HC MAX can control up to 4 weather-compensated heating circuits, the DHW loading and the backup heating demand for both.

Additional DHW functions such as circulation or thermal disinfection, and the efficient implementation of further heat sources are possible. With extension modules, further heating circuits 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.

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













Heat upon request!

- Up to 5 EM extension modules can be connected via the RESOL VBus[®] (45 sensors and 39 relays in total), up to 7 weather-compensated heating circuits
- 2 inputs for digital Grundfos Direct Sensors TM
- 2 inputs for analogue Grundfos Direct SensorsTM
- Screed drying function
- Data logging, storing, easy transfer of controller adjustments prepared and firmware updates via SD card
- Cooling over the heating circuit with condensation detection by means of a dew point switch
- Modulating heating control with 0-10 V boiler control
- Weather-compensated control with room influence or demand-based room control with up to 5 room temperature sensors per heating circuit
- Remote access with a room control unit or the VBus®Touch HC App

DeltaTherm® HC MAX

Price bracket A | Article no.: 115 006 73

DeltaTherm® HC MAX – Full kit Incl. 5 sensors Pt1000 (1 x FAP13, 1 x FKP23, 3 x FRP6)

Price bracket A | Article no.: 115 006 83

DeltaTherm® HC MAX – ErP 6 kit Incl. 1 x FAP13, 1 x RCP12, 1 x FKP23, 1 x FRP6 Price bracket A | Article no.: 115 006 93

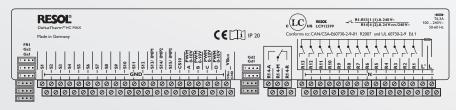
DeltaTherm® HC MAX – ErP 8 kit Incl. 1 x FKP23, 1 x FRP6, 1 x RCP12, 2 x FRP12 Price bracket A | Article no.: 115 007 03

An SD card is included with the controller.

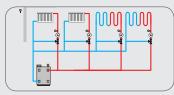
Menu languages:



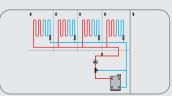
ELECTRICAL CONNECTION



EXAMPLES



4 mixed heating circuits with backup heating (demand)



1 mixed heating circuit with 4 zones



2 mixed heating circuits with backup heating (demand)



1 mixed heating circu with backup heating (demand)



1 mixed heating circuit with external heat source (e.g. district heating)



1 mixed heating circuit with external heat sour (e. g. heat pump)



1 mixed heating circuit with solid fuel boiler



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

ACCESSORIES

RESOL KM2 Communication module



Incl. RESOL service CD, network cable and mains adapter, VBus® cable pre-connected

Price bracket A | Article no.: 180 012 10

RESOL EM



Sensor and relay Extension module with 5 outputs and 6 inputs

Price bracket A | Article no.: 145 440 80

RESOL FRP12 Indoor temperature sensor



Used for measuring the indoor temperature with a Pt1000 measuring element

Price bracket A | Article no.: 155 008 90

VFD/RPD Grundfos Direct Sensor™



Digital sensors in different versions

RESOL RCP12 Room control unit



The heating curve and the operating mode can be comfortably adjusted

Price bracket A | Article no.: 136 000 50

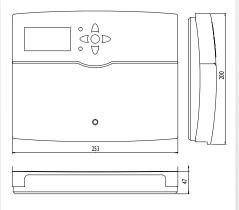
RESOL RTA12 Remote control



The heating curve can be comfortably adjusted from the living area

Price bracket A | Article no.: 136 000 40

TECHNICAL DATA



Inputs: 12 Pt1000, Pt500 or KTY temperature sensor inputs (can optionally be used for remote controls, operating mode switches or potential-free switches), 3 impulse inputs for V40 flowmeters, 1 input for a FlowRotor, 1 CS10 solar cell, 4 Grundfos Direct Sensors™ (2 x analogue, 2 x digital")

Outputs: 14 relays, 13 of them semiconductor relays for pump speed control, 1 potential-free relay and 4 PWM outputs (convertible to 0-10V signal outputs)

PWM frequency: 512 Hz PWM voltage: 10.5 V Switching capacity:

1 (1) A 240 V~ (semiconductor relay) 4 (2) A 24 V==/240 V~ (potential-free relay)

Total switching capacity: 6.3 A 240 V~ Power supply: 100 ... 240 V~ (50 ... 60 Hz)

Supply connection: type Y attachment

 $\textbf{Standby:}\,0.83\,\text{W}$

Temperature controls class: VIII

Energy efficiency contribution: 5 %

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: 35 mA

Functions: screed drying, weather-compensated heating circuit control, backup heating, 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

Operation: 7 push buttons

Ingress protection: IP 20/EN 60529

Protection class:

Ambient temperature: 0 ... 40 °C

Pollution degree: 2

 $\textbf{Dimensions:}\ 253\times200\times47\ \text{mm}$

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

- 1 x RPD, 1 x VFD
- 2 xVFD, but with different measuring ranges only