



Certified for the
North American
market!

The cLCus certification confirms that the controller is conform to UL 60730-2-9 and CSA - E60730-2-9-01.

rosenthal design



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 properties such as apartment houses, residential homes and industrial buildings.



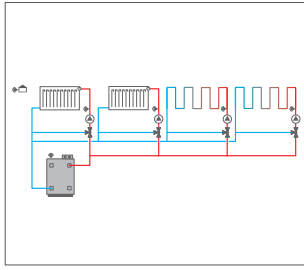
Temperature controls class VIII

Ideal for larger properties

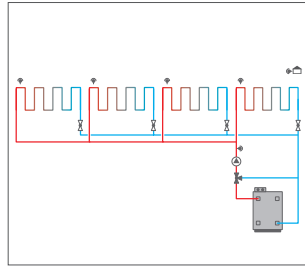
- Up to 5 EM extension modules can be connected via the RESOL VBus® (45 sensors and 39 relays in total), up to 7 weather-compensated heating circuits
- 4 inputs for Grundfos Direct Sensors™ (2 x analogue, 2 x digital)
- Screed drying function
- Data logging, storing, easy transfer of controller adjustments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

Article no.	Article	Price bracket
115 006 73	DeltaTherm® HC MAX – Heating controller	A
115 006 83	DeltaTherm® HC MAX – Full kit » incl. 5 Pt1000 sensors (1 x FAP13, 1 x FKP23, 3 x FRP6)	A
115 006 93	DeltaTherm® HC MAX – ErP 6 kit » incl. 1 x FAP13, 1 x RCP12, 1 x FKP23, 1 x FRP6	A
115 007 03	DeltaTherm® HC MAX – ErP 8 kit » incl. 1 x FKP23, 1 x FRP6, 1 x RCP12, 2 x FRP12	A

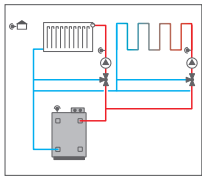
EXAMPLES



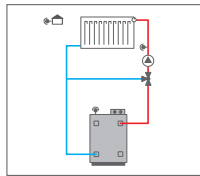
4 mixed heating circuits with backup heating (demand)



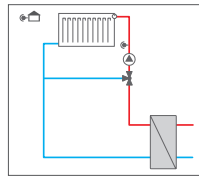
1 mixed heating circuit with 4 zones



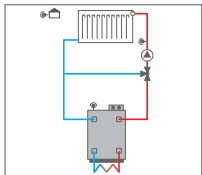
2 mixed heating circuits with backup heating (demand)



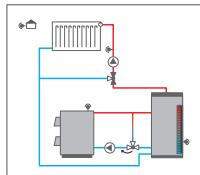
1 mixed heating circuit with backup heating (demand)



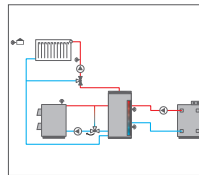
1 mixed heating circuit with external heat source (e.g. district heating)



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

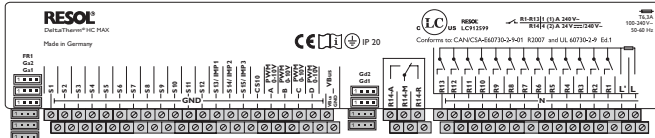


1 mixed heating circuit with solid fuel boiler



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

ELECTRICAL CONNECTION



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 frequency input, 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 X attachment

Standby: 0.83 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 buttons

Ingress protection: IP 20 / EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Degree of pollution: 2

Dimensions: 253 x 200 x 47 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

ACCESSORIES

An SD card is included with the controller.

DL3 Datalogger



For visualisation via VBus.net, incl. SD card, mains adapter, network and VBus® cable

EM Extension module



Sensor and relay Extension module with 5 outputs and 6 inputs

Wireless room control unit and accessories



Used to measure and adjust the room temperature

RCP12



Room control unit

RTA12 Remote control



The heating curve can be comfortably adjusted from the living area

FRH (analogue) and FRHd (digital)



For measuring the relative humidity and the room temperature