



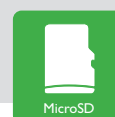
rosenthal design



LC 22326-1
Conforms to: UL60730-2-9
CAN/CSA-E-60730-2-9:18



SAA241638



DeltaTherm® HC mini

The **DeltaTherm® HC mini** offers a compact and user-friendly solution for simple heating systems. It can control a weather-compensated heating circuit and its backup heating demand. Additional DHW functions such as circulation or thermal disinfection, and the efficient implementation of further heating circuits are possible with EM Extension modules*. Additionally, there's a choice of 6 different operating modes, a boiler protection option and a night correction.

Due to the commissioning menu and the 4 pre-configured basic systems, configuration is quick and easy.

In summer, the heating circuit takes over the demand-based cooling by means of a humidity sensor for dew point calculation*

VIII

Temperature controls class VIII

Heating control, simple and efficient

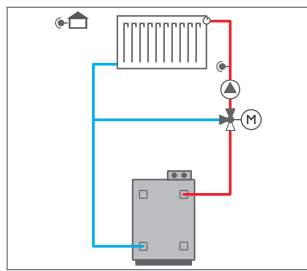
- 4 pre-configured basic systems
- Cooling over the heating circuit with humidity sensor*
- Up to 5 extension modules can be connected via the VBus®, up to 7 weather-compensated heating circuits*
- 6 operating modes, boiler protection, room thermostat and night correction
- Holiday mode, chimney sweeper function and screed drying function
- 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
- Data logging, storing, easy transfer of controller adjustments prepared and firmware updates via MicroSD card
- Remote access with a room control unit or the VBus®Touch HC App
- Heat pump demand (optional)

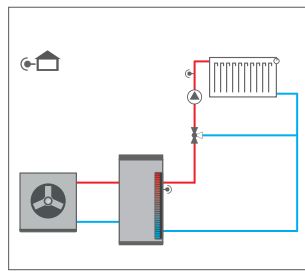
* from version 2

Article no.	Article	Price bracket
115 005 23	DeltaTherm® HC mini – Heating controller	A
115 005 13	DeltaTherm® HC mini – Full kit » incl. 3 Pt1000 sensors (1 x FAP13, 1 x FKP23, 1 x FRP6)	A

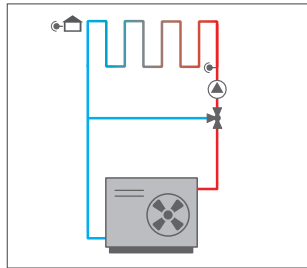
EXAMPLES



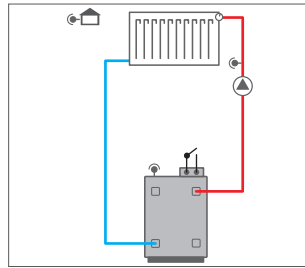
1 mixed heating circuit



1 mixed heating circuit with 1 store and heat pump (demand)

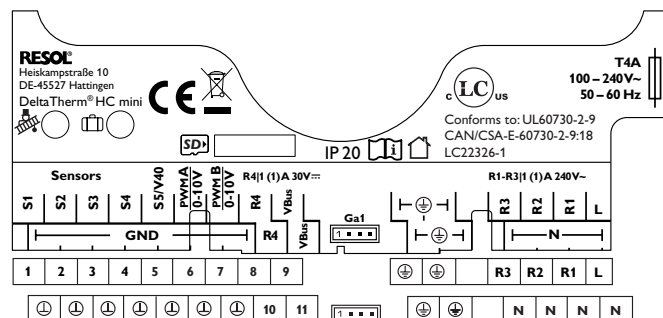


1 mixed heating circuit for heating and cooling



1 static heating circuit with backup heating (demand)

ELECTRICAL CONNECTION



TECHNICAL DATA

Inputs: 5 inputs for Pt1000, Pt500 or KTY temperature sensors (can optionally be used for remote controls, operating mode switches or potential-free switches, 1 of them convertible to V40), 1 analogue input for Grundfos Direct Sensor™ or FRH humidity sensor*

Outputs: 3 semiconductor relays, 1 potential-free extra-low voltage relay, 2 PWM outputs (convertible to 0-10V)*

PWM frequency: 512 Hz

PWM voltage: 10.8 V

Switching capacity:

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

1 (1) A 30 V== (potential-free relay)

Total switching capacity: 3 A 240 V~

Power supply: 100–240 V~ (50–60 Hz)

Supply connection: type X attachment

Standby: 0.62 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: VBus®, MicroSD card slot

VBus® current supply: 60 mA

Functions: weather-compensated heating circuit control, backup heating, room thermostat, chimney sweeper function, screed drying function

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting, mounting into patch panels is possible

Indication / Display: full graphic display, operating control LED (Lightwheel®)

Operation:

4 buttons and 1 adjustment dial (Lightwheel®)

Ingress protection: IP 20/EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Degree of pollution: 2

Relative humidity: 10 ... 90 %

Fuse: T4A

Maximum altitude: 2000 m above MSL

Dimensions: 110x166x47 mm

* from version 2

ACCESSORIES

KM2 Communication module



For remote access to the controller via VBus.net

RTA12 Remote control



The heating curve can be comfortably adjusted from the living area

RCP12 Room control unit



The heating curve can be comfortably adjusted, incl. operating mode switch

FRH (analogue) and FRHd (digital)



For measuring the relative humidity and the room temperature

RTS Room control unit



For measuring the relative humidity and the room temperature as well as for adjusting the set room temperature

EM Extension module



Sensor and relay extension module with 5 outputs and 6 inputs