



rosenthal design



## 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. Additionally, there's a choice of 5 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.

The chimney sweeper function and the holiday mode can be activated by pressing a single button.

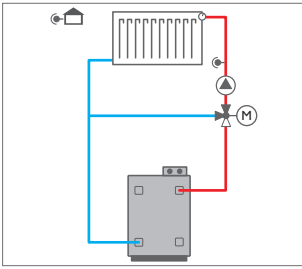


## Heating control, simple and efficient

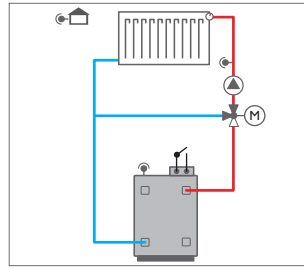
- 4 pre-configured basic systems
- 12 pre-programmed schemes for the temperature controls classes II, III, V, VI, VII and VIII
- 4 relay outputs (incl. 1 potential-free extra-low voltage relay)
- 5 inputs for Pt1000 temperature sensors
- 5 operating modes, boiler protection, room thermostat and night correction
- Holiday mode, chimney sweeper function and screed drying function via microbuttons
- Data logging, storing, easy transfer of controller adjustments prepared and firmware updates via SD card
- Modulating heating control with 0-10V boiler control
- Weather-compensated control with room influence or demand-based room control with up to 3 room temperature sensors
- Remote access with a room control unit or the VBus®Touch HC App
- wibutler compatible

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

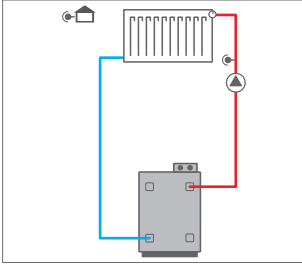
## EXAMPLES



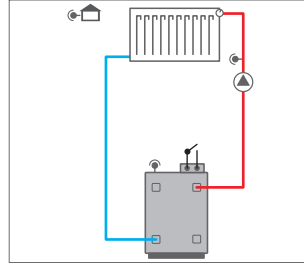
1 mixed heating circuit



1 mixed heating circuit with backup heating (demand)

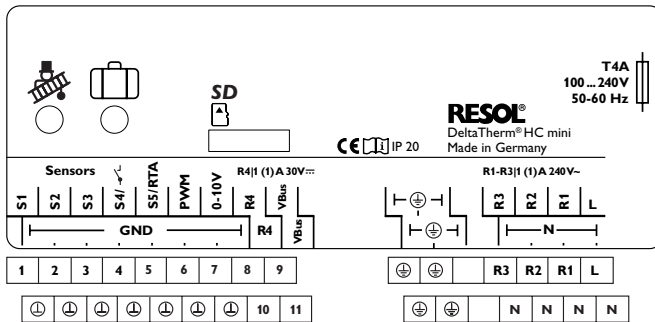


1 static heating circuit



1 static heating circuit with backup heating (demand)

## ELECTRICAL CONNECTION



## TECHNICAL DATA

**Inputs:** 5 inputs for Pt1000 temperature sensors (1 of them can be converted to Switch and one of them to RTA remote control or BAS operating mode switch)

**Outputs:** 3 semiconductor relays, 1 potential-free extra-low voltage relay, 1 PWM output, 1 0-10V output

**PWM frequency:** 512 Hz

**PWM voltage:** 10.8V

**Switching capacity:**

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

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

**Total switching capacity:** 3 A 240V~

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

**Supply connection:** type X attachment

**Standby:** 0.63 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:**

RESOLVBus®, 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

**Dimensions:** 110x166x47 mm

## ACCESSORIES

### KM2 Communication module



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

### RTA12 Remote control



The heating curve can be comfortably adjusted from the living area

### RCP12



Room control unit

### FRP12 Indoor temperature sensor



Used for measuring the indoor temperature with a Pt1000 measuring element

### AM1



Alarm module for signalling system failures

### Wireless room control unit and accessories



Used to measure and adjust the room temperature