

rosenthal design 



## DeltaTherm® HIU mini

RESOL offers a range of solutions for the control of OEM heat interface units. The DeltaTherm® HIU mini is a controller for heat interface units and can be used for heating circuit control as well as for DHW heating.

The controller concept enables adaptation to the individual requirements. Its compact design makes it ideal for the integration into heat interface units.

## Controller concept for heat interface units

- Constantly high control quality by adaptation to the end user system by means of self-learning neural networks
- Customised control for systems with or without circulation
- Flexible circulation function for different user profiles, also available with thermal disinfection\*
- Reliable DHW heating even in the case of a fault condition via emergency operation
- Control of PWM pumps and valves
- Adaptable to many commonly used flow rate sensors
- Weather-compensated control or demand-based room control
- Control of a stepper motor via an additional module possible
- Numerous check measurements run by our laboratories on request

\* beginning with version 2.00

RESOL develop and produce the right controller  
to meet your requirements. CONTACT US!

Article no.

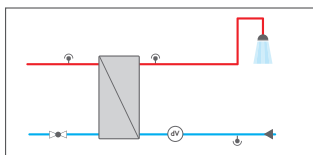
Designation

Price bracket

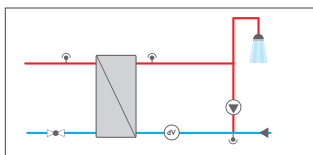
DeltaTherm® HIU mini

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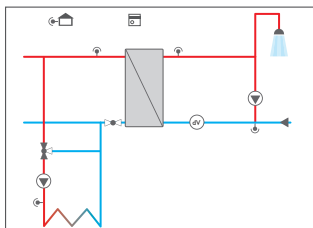
## APPLICATION EXAMPLES



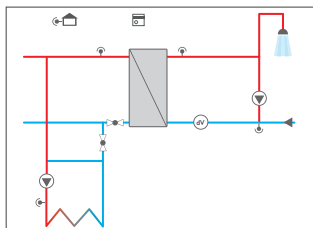
DHW heating without heating circuit



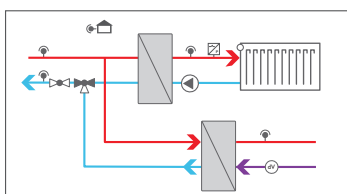
DHW heating with circulation



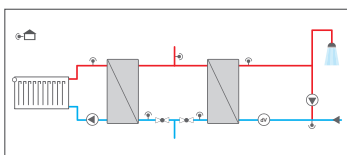
DHW heating with mixed heating circuit and room thermostat



DHW heating with unmixed heating circuit and room thermostat



Indirectly connected heating circuit with DHW heating switchover



Indirectly connected heating circuit with DHW heating switchover

## TECHNICAL DATA (EXAMPLE)

### Inputs:

6 Pt1000 temperature sensors, 1 flow rate sensor (0-500 Hz interface or Grundfos Direct Sensor™ analogue (depending on the product version))

### Outputs:

2 semiconductor relays and 3 PWM outputs (2 of them convertible to 0-10 V outputs), 1 potential-free relay, 2 outputs 24V =/5.5 V

**PWM frequency:** 1 kHz

**PWM voltage:** 11 V

### Switching capacity:

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

1 (1) A 24 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:** < 1 W

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

**Rated impulse voltage:** 2.5 kV

**Data interface:** 2 VBus®, MicroSD card slot

**VBus® current supply:** 30 mA

**Housing:** plastic, PC-ABS and PMMA

**Mounting:** wall mounting, also suitable for mounting into patch panels

**Indication / Display:** 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

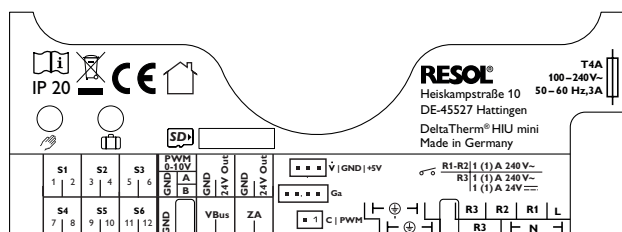
**Relative humidity:** 10 ... 90 %

**Fuse:** T4A

**Maximum altitude:** 2000 m above MSL

**Dimensions:** 110 x 166 x 47 mm

## ELECTRICAL CONNECTION



## FURTHER POSSIBLE SENSOR TYPES

- Ultrasonic sensors
- Vortex sensors
- Turbine sensors

(On request)

## ACCESSORIES

### DL2 Plus Datalogger



For remote access to 2 controllers, integrated data logging and connection to a BMS

### RCP12



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

### RTA12 Remote control



The heating curve can be comfortably adjusted from the living area

### Central outdoor sensor unit



Measures the outdoor temperature and transmits this value to the controllers connected