

HERZ - Electric Distributor

Data sheet **3 F798 08** Issue 0124

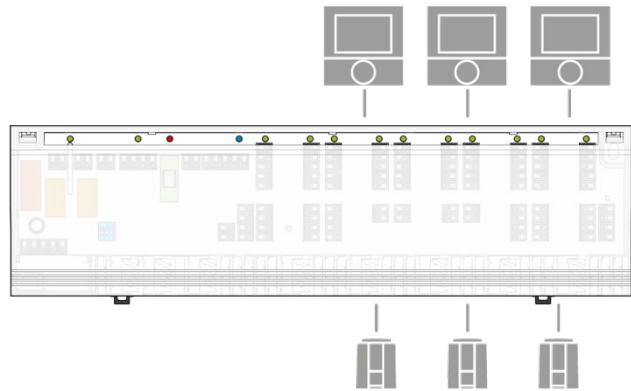
HERZ Electric Distributor

The HERZ Electric distributor is the central connection unit of a room- by-room temperature control for the surface temperature adjustment of heating and cooling systems.

With minimum expense, the HERZ Electric distributor can be wired to all system components as e. g. thermostats and actuators. The system components are supplied directly with the voltage supply of the HERZ Electric distributor.

With full equipment, the HERZ Electric distributor includes extensive functions for an energy-efficient and system- considerate comfort operation.

With the HERZ Electric distributor and its numerous differentiation possibilities you can ensure an optimum market position. It lets you offer easy installation and maximum surface temperature adjustment comfort to your customers.



Features








- Design with 10 zones
- 230 V version
- A maximum of 18 actuators can be connected
- Equipment for heating and/or cooling systems
- Simple, intuitive installation and operation
- Status signalling by LEDs
- Proven cable guide and standard-complying strain relief
- Screwless terminal connection technique
- Clearly structured connection terminals
- Timer module - System clock integrated into the casing cover
- Reduction channel for a time-controlled room temperature reduction
- Pump and boiler control
- Adjustable follow-up time for pump and boiler control
- Connection for a temperature limiter or dew point monitor
- Selectable control direction via DIP switch: NC or NO (NO: normally open / NC: normally closed)
- High functional security
- Maintenance-free

HERZ product quality ensures easy, intuitive installation, operation and maintenance of the entire system.

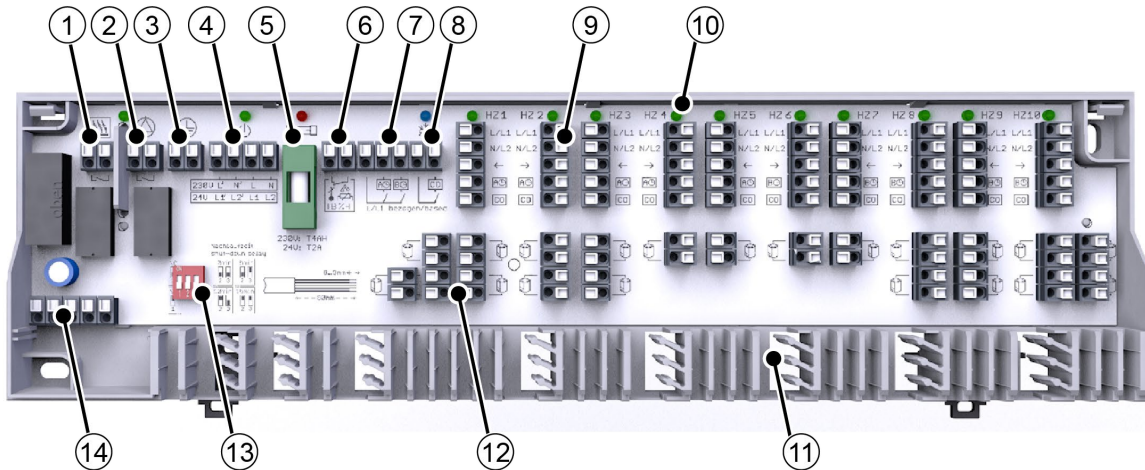
HERZ Electric distributor is delivered in grey colour with transparent cover. The Comfort variant have NC setting as standard.

Type	Version	Operating voltage	Zones	Equipment	Scope of supply
3 F798 08	Comfort	230 V	10	Heating/cooling, pump and boiler control, status signaling	<ul style="list-style-type: none"> • HERZ Electric distributor in individual packaging • Instruction in 12 languages

 **Equipment overview**

	Comfort 230V 3 F798 08
Protective conductor intermediate connection	
Mains through clamp for pump/boiler circuit	
Mains through clamp for dew point monitor	x
Extended pump/boiler control – follow-up time configurable	
Simple pump control	x
Signal input for temperature limiter or dew point monitor	
Reduction channel - connection for an external system clock	
Change-over connection Signal for heating/cooling	
Timer module - casing cover with integrated system clock	Option
Control direction normally closed (NC)/normally open (NO)	Selectable
Function signalling by LEDs	

☑ Device overview (example)



1. Boiler control

- Potential-free contact for controlling a boiler circuit
- Starting and switching-off delay predefined with 2 minutes

2. Pump control

- Potential-free contact for controlling a pump circuit
- Starting and switching-off delay predefined with 2 minutes
- Pump protection circuit
 - Cyclic triggering of the pump once every 14 days for 1 minute after the last trigger

3. Protective conductor intermediate connection

- Terminal for the intermediate connection of the protective conductor of electrical consumers as e. g. pump (only 230 V version)

4. Voltage supply/through clamp

- Network connection of the HERZ Electric distributor
- Through clamp for the connection of electrical consumers as e. g. pump (only 230 V version)
- Through clamp for the connection of a dew point monitor (only 24 V version)

5. Fuse

- Protects the HERZ Electric distributor by interrupting the circuit if the amperage exceeds a defined value for a pre-defined time.

6. Temperature limiter/dew point monitor

- Switching contact for connecting a temperature limiter or dew point monitor
 - The temperature limiter prevents excessive supply temperatures of floor heatings via a potential-free contact
 - The dew point monitor monitors the system in the cooling mode and switches it off when dewing is detected

7. Reduction channel - connection for an external system clock

- Transmission of up to two timer signals for a time-controlled reduction of the room temperature to connected thermostats via a potential-free contact
- Control (No. 9), or an external system clock (No. 7) can be used as signal source.

8. Heating/cooling change-over

- Change-over of the complete room-by-room temperature control between heating and cooling
- Supply of an external signal via potential-free contact
- Forwarding of the change-over signal to connected thermostats

9. Connection for thermostat

- Quick connection of up to 10 thermostats
- Voltage supply for connected thermostats

10. Status signalling by LEDs

- Clear status signalling, also with the casing cover closed, for:
 - Boiler/pump active (green)
 - Operating status active (green)
 - Fuse blown (red)
 - Cooling mode active (blue)
 - Heating zone active (green - one status LED per heating zone)

11. Cable guide and strain relief

- Proven, integrated cable guide and strain relief according to DIN EN 60730-1

12. Connection for actuators

- Voltage supply for connected actuators
- Valve protection function at all outputs (optional)
 - Valve protection function once every 14 days for 10 minutes after the last triggering
 - Avoids the clogging of valves in times without temperature control

13. DIP switch

- Control direction normally closed (NC) / normally open (NO) adjustable by means of DIP switch
- Increase of the switching-off delay of the boiler/pump contact by 5 to 15 minutes

14. Connection of timer module

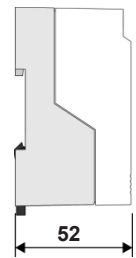
- Connection for timer module for the Control variant, or for retrofitting the timer module for the Comfort variant

		230 V variant 10 zones
Type	Comfort	3 F798 08
Operating voltage		230 V / $\pm 10\%$ / 50 Hz
Voltage supply		Euro connector (accessory) / external voltage source
Power consumption in idle operation ¹		<1 W
Power consumption in idle operation with transformer 20402-00N2		-
Max. power consumption (without pump/boiler consumer)		Max. 50 VA
Fuse		T4AH
Max. number of thermostats		10
Max. number of connection terminals for actuators		21
Max. connectible actuators	A5	18
	Third-party brand	18 (max. inrush current 500 mA per actuator)
Max. nominal load of all actuators		-
Pump circuit		Closing contact (monopolar switching) / Direct connection possible via L'/N'
Boiler circuit		Closing contact (monopolar switching)
Pump control and Boiler control	Switching power	2 A, 200 VA inductive
	Switching element	Relay
	Turn-on delay ²	2 min (Switching pulses below 2 minutes will be suppressed)
	Follow-up time ²	2 min, additionally 0-15 minutes adjustable by DIP switch
Valve protection function ^{2,3}		14 days/10 min
Pump protection function ²		14 days/1 min
Control direction normally closed (NC)/normally open (NO)		NC/NO (Standard, Standard Plus without connected pump) NC (Standard Plus with connected pump) adjustable via DIP switch (Comfort and Control)
Change-over input		Switchable via potential-free contact
Temperature limiter or dew point monitor		Potential-free break contact, switchable, 24 V/230 V, 8 A
Heating programs (option)		2 via timer module
Timer module ⁴		Weekly timer, two independent switching outputs, at least 4 reduction times per day and switching output can be programmed, power reserve
Admissible ambient temperature		0 to +50 °C
Admissible storage temperature		-20 to +70 °C

Admissible ambient humidity		80%, not condensing
Temperature for ball pressure test		550 °C
Pollution		2
Rated impulse voltage		1500 V
Connection terminals		Screw-less terminals for 0.2 to 1.5 mm ² , vertical cable entry
Connection line	Massive	NYM-J/NYM-O (max. 5 x 1.5 mm ²)
	Flexible	H03V2V2H2-F / H05V2V2H2-F
Strain relief		Integrated
Standards and regulations		EN 60730-1, EN 60730-2-9
ERP class acc. to EU 811/2013		1=1 %
Protection class		II
Protection type		IP 20
Type action		Type 1 C
Material	Cover	ABS
	Casing	ABS
Colour	Cover	Transparent, polished in the area of the LEDs
	Casing	Light grey (RAL7035)
Weight	Comfort	472 g
	Comfort with valve protection function	480 g
Dimensions (H x L x D)		90 x 326.5 x 52 mm
Type of installation		Wall installation/DIN rail (TS35/35 x 7.5 mm)
Indicators (LED)	Heating zone active	Green (one LED per HZ)
	Fuse defective	Red
	Mains voltage on	Green
	Pump/boiler active	Green
	Cooling mode active	Blue

Dimensions

Basis



All indications in mm

Approvals & certificates

In addition to our numerous internal function and quality tests, all HERZ products are also extensively tested by independent testing institutes.



The CE identification documents that the products that the products placed on the market comply with the applicable requirements of the EU Directives.



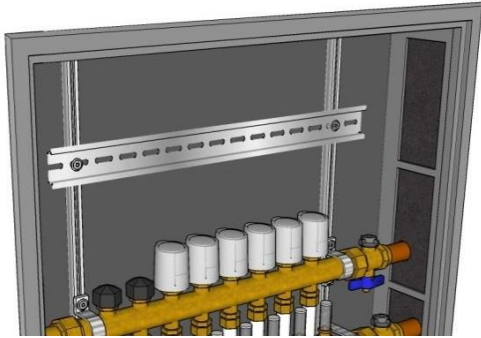
The product is certified by the TÜV Rheinland.

☑ Installation

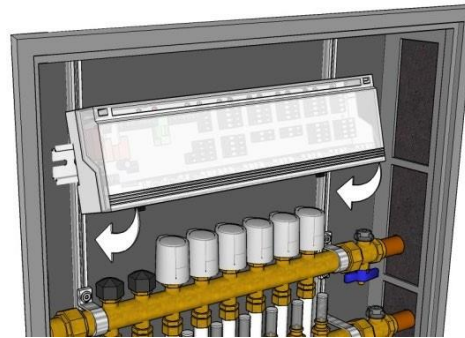
The HERZ Electric distributor can be installed onto the back wall or on a DIN rail in the heating circuit distributor, as well as directly on the wall near the heating circuit distributor.

DIN rail installation

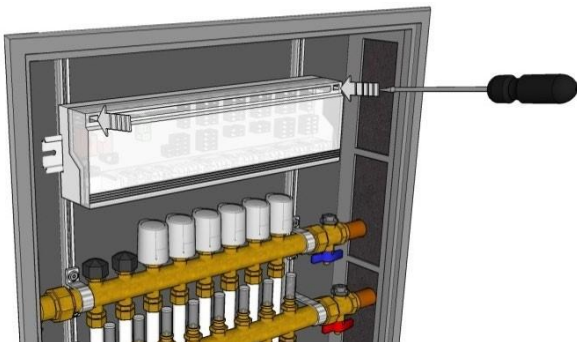
1. Install a DIN rail on-surface or in the heating circuit distributor cabinet or use an existing one. existing one.



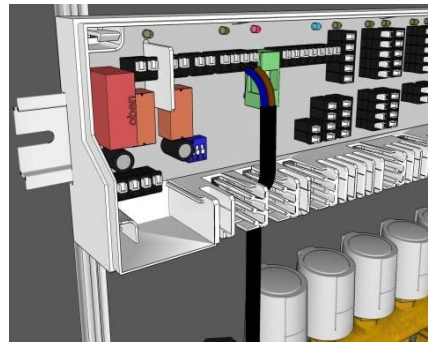
2. Position the basis slightly tilted onto the DIN rail and latch it in.



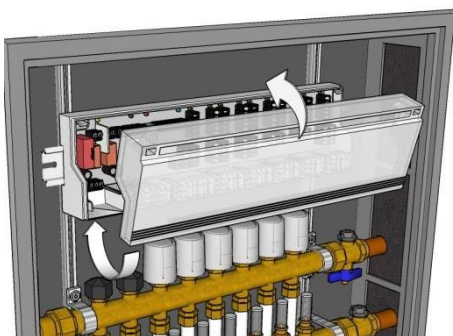
3. Loosen the casing cover at both latching points with a screwdriver and remove it.



4. Lay the cable into the casing through the strain relief and install all cables to the basis using the clamping/plug-in technology; this is possible in a very short time.

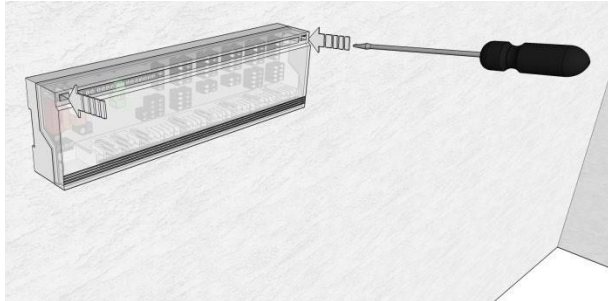


5. Close the cover and apply mains voltage. Now the basis is ready to operate.

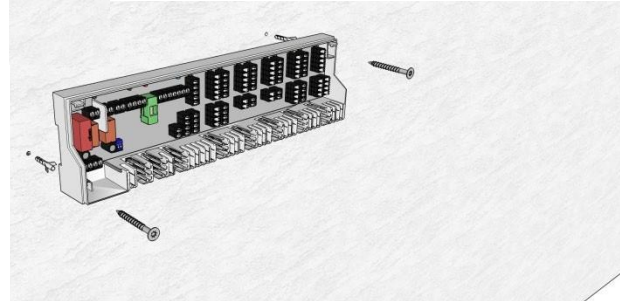


Wall installation

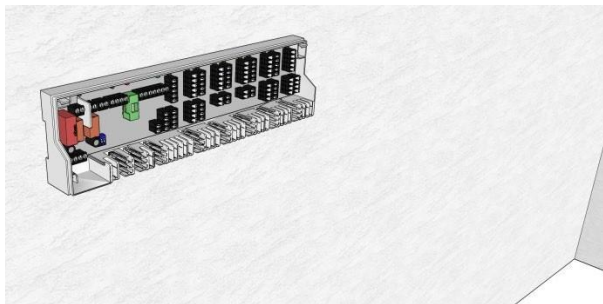
1. Loosen the casing cover at both latching points with a screwdriver and remove it.



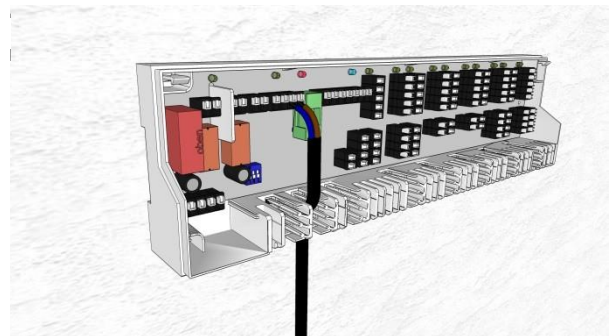
2. Mark the two fixing holes for the basis and drill them. The basis must horizontally align. Install the basis with dowels and screws (2 units M4) depending on the condition of the wall.



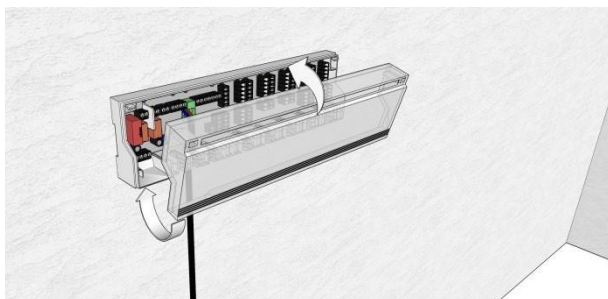
3. Align the basis and tighten the screws by hand.



4. Lay the cables into the casing through the strain relief and install all cables to the basis using the clamping/plug in technology; this is possible in a very short time.



5. Close the cover and apply mains voltage. Now the basis is ready to operate.



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