

Assembly and Installation Instructions

Electric Heat Exchanger of the Series

D-EWT Pro

If you do not pay proper attention to these installation instructions the manufacturer cannot accept liability for any resulting damage to the device itself, the environment, property, or personal injury.

Your safety is our concern!

These Electric Heat Exchangers consist of a stainless steel shell and a built-in electric heating element in titanium.

1. Purpose:

These Electric Heat Exchangers are made to heat up bathing water in swimming pools and whirlpools while the pump is running. It is not permitted to change and/or modify the device without consulting the manufacturer.

2. Safety Warning:

- 2.1 This device has not been designed for use by individuals (including children) with physical, mental or sensory disabilities, or people who lack the necessary experience and/or knowledge unless under the supervision of someone entrusted with their safety or instructed by that person in how the device should be used.
- 2.2 **Attention:** never open the control box without disconnecting it carefully from the electrical power supply securing it against unintentional switching on!

3. Important:

- 3.1 Anybody involved with the installation, start-up, use, maintenance, and/or repair of the Electric Heat Exchanger must be qualified and carefully follow the instructions.
- 3.2 3.2 Only a specialized electrical technician (VDE 0105) may operate the device following the DIN VDE 0100 safety standards.

4. Fire Hazard:

Improper handling or failure of the safety device can lead to overheating. In extreme cases the Electric Heat Exchanger could reach temperatures up to °C 100.

- 4.1 Do not install the device near flammable material.
- 4.2 If the unit is mounted to the wall, especially if the construction material is easily flammable, a heat-resistant plate must be inserted between the Electric Heat Exchanger and the wall. That plate should be at least 10 cm longer and wider than the Electric Heat Exchanger.
- 4.3 Do not use covers or insulation.
- 4.4 The sensor of the safety thermostat must be inserted into the thermowell.

5. Safety Devices:

- 5.1 The Electric Heat Exchanger should be protected by two safety switches.
- 5.2 Unless the client asks for less, the Electric Heat Exchanger is standardly equipped with a safety thermostat 50°C.
Control the device through the filter pump. If the limit is exceeded, the safety devices will switch off the Electric Heat Exchanger.

6. Corrosion Prevention:

- 6.1 The Electric Heat Exchanger should be mounted in a dry place.
- 6.2 Be careful not to wash any metals into the Electric Heat Exchanger when connecting it to the water circuit.
- 6.3 The Electric Heat Exchanger must be mounted so it can always be completely full of water or completely empty. During off season it can also be completely drained.
- 6.4 To avoid corrosion, make sure not to exceed the following water parameters:
 - Chloride Content: max. 500 mg/l
 - Free Chlorine: max. 1 mg/l
 - PH: max. 6,8 – 7,8

Be careful: The disinfection device should be installed after the Electric Heat Exchanger in a way so that neither chemicals nor gases can enter it while it is switched off.

7. Frost:

During frost the Electric Heat Exchanger needs to be completely empty.

8. Please Note:

The specific water resistance at 15°C may not be below 550 kg OHM x cm. When the limits are properly taken into consideration (see above), the water resistance will remain between 1,5 Mega OHM x cm and 550 Kilo OHM x cm.

9. Operating Pressure:

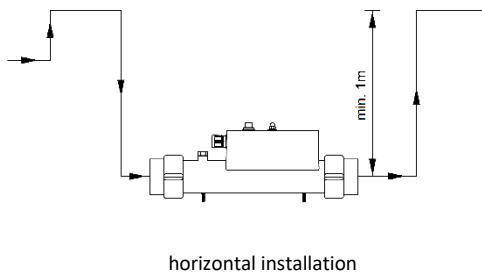
Do not exceed the 2,5 MPa operating pressure.

10. Safety Instructions:

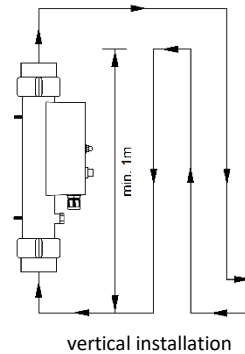
- 10.1 Before starting the Electric Heat Exchanger install an FI – safety switch (0,03 A) and a circuit breaker into the power supply.
- 10.2 The device needs to be connected to the hard wire.
- 10.3 The electric heat exchanger must be connected to permanently installed piping.
- 10.4 While cross sectioning the cable, please consider VDE 100.
- 10.5 The contactors for the heating element must be electrically interlocked with the filter pump.

11. Installation Instruction Concept:

11.1 Installation above water level

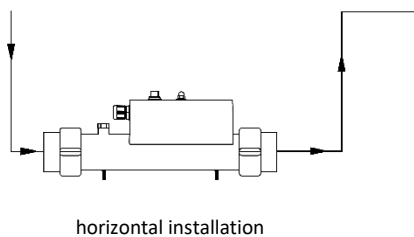


horizontal installation

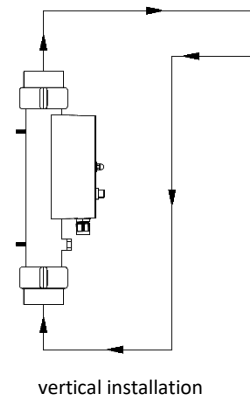


vertical installation

11.2 Installation below water level

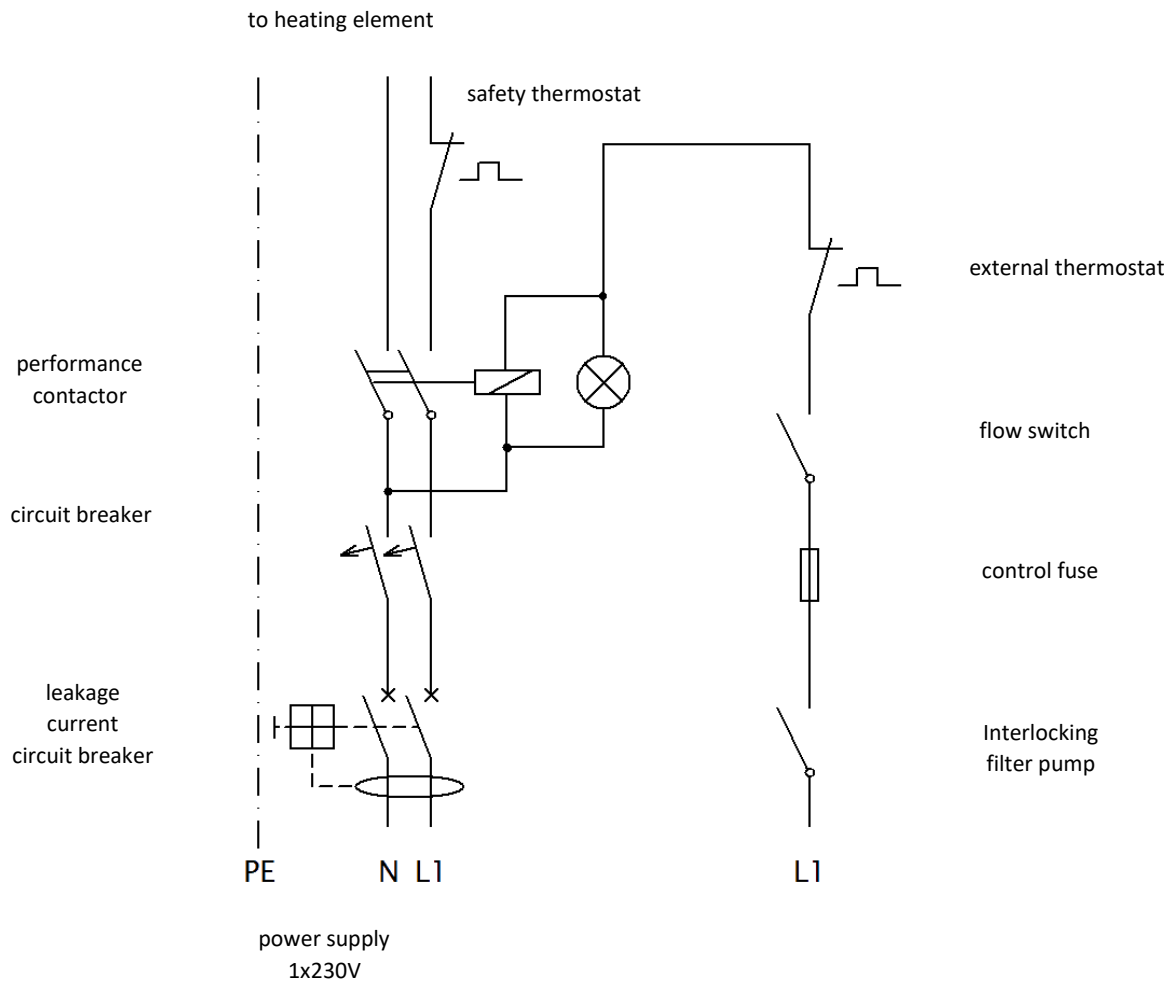


horizontal installation



vertical installation

12. Circuit Diagram:



13. Important General Note:

It is essential that the Electric Heat Exchanger is installed in an area with adequate floor drainage. If heat exchangers, filters and similar devices are damaged, water may escape uncontrollably. Cellars and similar areas may quickly become flooded and suffer material damage!

Please save these Installation and Assembly Instructions and add them to your construction file. Thank you!

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TECHNICAL CHANGES RESERVED