



Assembly and Installation Instructions

Electric air heater D-EWT 1,5L

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!

This Air Heater consists of a stainless-steel casing and a built-in electric heating element with 1,5 kW heating capacity and a control-thermostat 30-90°C.

1. Purpose:

The Air Heater is only made to heat up cold air for whirlpools, hydro-massage loungers, and similar products. Heating up of the air may only occur if the blower motor is on.

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 and to be secured against unintentional switching on!

3. Important:

- 3.1 Anybody who installs, starts, uses, or maintains the air heater, must be qualified and must follow the installation instructions closely.
- 3.2 Only an electrician (VDE 0105) following the safety regulations DIN VDE 0100 may start the air heater.

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 100°C.

- 4.1 Do not install the device near flammable material.
- 4.2 Do not use covers or insulation.
- 4.3 The sensor of the safety thermostat must be inserted into the thermowell before the sensor of the control thermostat can be added.

5. Safety Devices:

- 5.1 This air heater is equipped with a control-thermostat (30-90°C).
- 5.2 Before the air heater gets started a FI- safety switch (0,03A) and a circuit breaker need to be installed:
- 5.3 All metal parts should be included in the potential equalization.
- 5.4 Please make sure that the air heater and the air blower always run together. The electric heating must be locked via the blower motor.
- 5.5 The heating element of the electric air heater should be connected to the mains with a delay of at least one minute after the air blower.

6. Installation:

- 6.1 Either the air heater needs to be mounted vertically at least 60 cm over the water level, or a pipe loop needs to be laid at that height. See point 9.
- 6.2 A non-return valve must be installed to prevent water from entering the air heater.
- 6.3 Pipes must be fitted with brass or stainless steel/PVC.
- 6.4 The direction of the air flow must be observed. See the arrows at points 9.

7. Corrosion prevention:

- 7.1 When securing the Air Heater only use plastic or stainless-steel holders to avoid contact corrosion.
- 7.2 Always install the Air Heater in a dry place.
- 7.3 Droppings with high iron content could damage the stainless-steel casing.

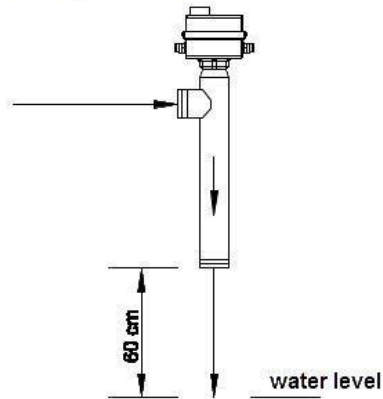
8. Loss of Heat:

To reach optimal warming and transportation of the warm air, please keep the following points in mind:

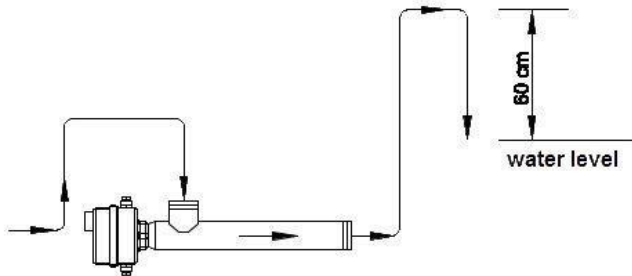
- 8.1 The blower output should be tuned so that differences in elevation and long lines do not cause excessive or insufficient heat output.
- 8.2 Use PVC pipes PN 16.
- 8.3 The Air Heater should be installed as close as possible to the water.
- 8.4 To intensify the heating of the air it is crucial not to connect the Air Heater in series but to use more Air Heaters parallel with one circuit for each device.

9. Installation:

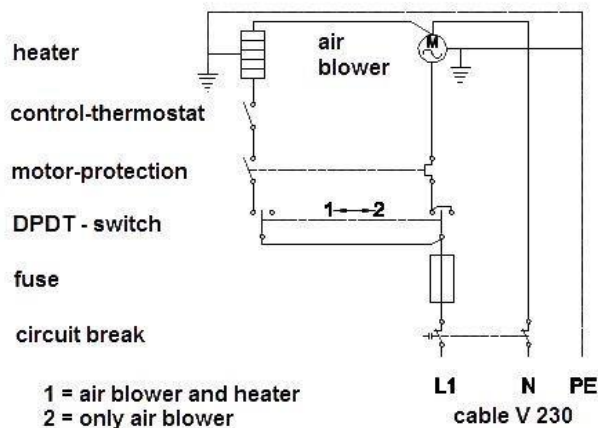
9.1 Installation layout above the water level



9.2 Installation layout below the water level



10 Circuit layout for air heater 1,5kW



11. General important note:

Please save these Installation and Assembly Instructions and include them in the construction file. Thank you!

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Max Daprà sas - Daprà Andreas & Co, Via Graf 2, I-39050 Fiè allo Sciliar

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