



The Air Heater Termis is designed for indoor use. The ambient temperature shall be 0...40°C if water is used as the heat transfer fluid.

The air to be heated must not be corrosive or contain large quantities of water vapour or large particles.

Installation

The air heater is installed fixed on the wall by means of mounting brackets (accessory).

Fix first the brackets at the desired height on the wall, select fixing screws according to the wall material. Make sure that the brackets are at the same height.

Loosen the fixing screws of the air heater and lift the air heater by the lower corners onto the brackets. Tighten the fixing screws.

NB! Do not lift the air heater by the fittings of the heat exchanger, fan or grille.

Connection to the heating system

Connect the inlet pipe to the lower pipe fitting and the outlet pipe to the upper pipe fitting by using suitable clamps.

Max operating pressure is 1.0 MPa and temperature 150°C .

Fill the heat exchanger with water and vent the system.

BADD

Size	Α	В	D	ш	F	Н	Ι	J	m kg	Pipe Ø mm
35	668	300	191	226	380	558	313	558	19,5	28
45	772	340	231	266	580	662	485	682	31,5	28
56	1002	380	271	306	700	892	558	892	49	28

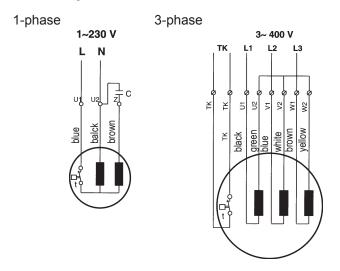
Electrical connection

The air heater is connected according to the diagram below, transformer regulator is available as an accessory. Only an authorized electrical installation company is allowed to connect the air heater.

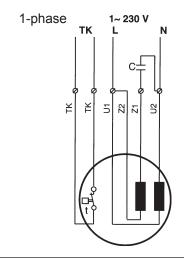
Test the air heater and make sure that the impeller rotates in the right direction.

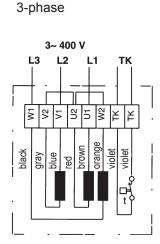
Standard products are one-phase, three-phase air heaters are available by special order.

Termis 35 ja 45



Termis 56





Air Heater Termis INSTALLATION, USE AND MAINTENANCE



Commissioning

Make sure that the air heater is firmly fixed and that there are no foreign objects loose inside or in the inlet. Make sure that the pipe connections are correct, the network is vented and the pipe joints do no leak. Make sure that the electrical connections are correct and according to the instructions. Start the air heater and check that the air flow direction is right.

The air heater Termis complies with the safety requirements of the Machine Directive. The requirements provide that the impeller safety guard, which also serves as the motor bracket, is undamaged. Every delivery includes the Declaration of Conformity according to the Machine Directive and the product is labelled with CE mark.

Maintenance

Make sure before proceeding with the work that the air heater Termis cannot be started by the safety switch during the service. Have the air heater serviced at the beginning and at the end of the heating season (in autumn and in spring).

The air heater can be cleaned by the plant's own service personnel but services and repairs of the impeller, motor and heat exchanger require special expertise.

Fan

The air heater Termis has a fan equipped with an external-rotor motor. The motor and the impeller make one component that cannot be dismantled. Clean the impeller if needed with a brush or a vacuum cleaner, do not use water. The impeller and the motor have to be removed for the cleaning. If the fan gets damaged the whole component has to be replaced or let a qualified professional repair it.

Heat exchanger

Check that the pipe joints of the heat exchanger do not leak and clean if needed the heat-exchange surfaces gently with a brush, a vacuum-cleaner or water. Remove the air deflector grille from the heat exchanger for cleaning, pull the upper cover towards yourself and lift the cover off.

Vent the heat exchanger together with the outlet water pipeline at the beginning of the heating season.

NB! To prevent the heat exchanger from freezing, water has to be kept warm enough, there must not be air in the heat exchanger and the water circulation has to be ensured by the circulation water pump or by the sufficient pressure difference of the inlet and outlet water. The heat exchanger can be equipped with an surface-mounted anti-freezing thermostat. The thermostat gives an alarm when the temperature of water drops under the set value (e.g. 8°C). The anti-freezing thermostat is not included in the delivery.

If the air heater is not in use during the beginning heating season, water has to be drained off the heat exchanger to prevent from freezing or the ambient temperature has to be kept warm enough.

NB! Mind the sharp laminated face of the heat exchanger - risk of a gash!

NB! There is a rotating apparatus in the air heater. If the air heater is installed within reach, do not push foreign objects between the rotating parts.

Casing

Clean the casing both inside and outside. Check the fastenings of the brackets of the air heater.

Check that the air flow direction is right and, if needed, tighten the screws at the ends of the louvers in the outlet opening.

Liability for faults and defects

The manufacturer guarantees the product for 12 months.

The warranty does not apply to wearing parts, the average life of which is shorter than the warranty period, except when such part shows a fault or defect within the average life period.

The warranty is valid only if the product is used strictly according to the instructions and exclusively for the intended purpose. The seller is, however, not liable for defects resulting from improper installation, non-observance of the installation instructions, normal wear, misuse, negligence in maintenance work for which the end user is responsible, or the buyer's neglect.



Manufacturer: Koja Oy Box 351

FI-33101 **Tampere Finland** Tel. +358 3 2825 111 Sales: Koja Oy Box 351

FI-33101 **Tampere Finland**Tel. +358 3 2825 111
Fax +358 3 2825 402