



## User Instructions – PTC Fan Heater

**Product Group: Radial Fan Heater LA09**

### 1. Safety Information

This heater is a component for further installation in a ready mounted customer system and only intended for the use as such. It is necessary to ensure that safety aspects are realized by a proper installation and connection in the final application.

#### Warnings:

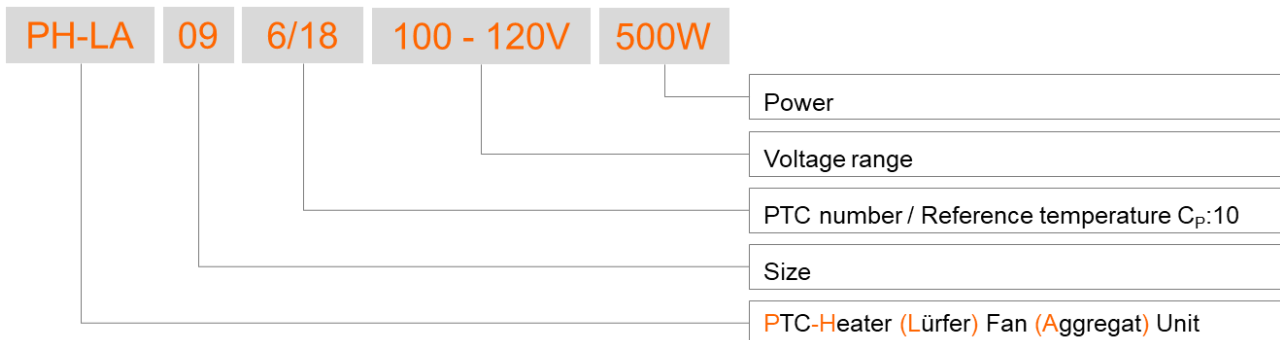
- Never perform any works on the fan heater while it is energized.
- All metal parts are live.
- Do not touch the fan heater during operation, otherwise you may receive an electric shock or burns.
- The heater will remain hot for several minutes after switching off; allow it to cool down before touching or removing it.
- Operation with insufficient air flow will reduce the functionality and service life.
- The applied heater identification shall not be removed or changed.
- This component is not intended to be used by persons (including children) with limited physical, sensory or mental abilities or lack of experience and/or knowledge, unless they are supervised or instructed by a person responsible for their safety. Children should be supervised to ensure that they are not playing with this component.

### 2. General

#### Design:

Heating register in a plastic housing with integrated centrifugal fan.

#### Product Code:



#### Application:

The component can be installed in custom enclosures to heat and direct the air.

### 3. Identification of the Product

These user instructions apply to different design variants of the product range; all of them however with identical basic design. For identification, all heaters are marked with the manufacturer name, part no. and voltage.

### 4. Modification of the Product

It is not admissible to modify the components in their basic structure or function.

For further information please contact:

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## 5. Connection

When connecting the heating circuits, the polarity of the circuits or voltage type does not need to be considered. The connection of the heating circuits in series is generally not permitted. Detailed wiring and mounting instructions are included in the product specification.

When connecting the motor, make sure that the heater can only be operated together with the motor.

## 6. Installation Instructions

- The installation shall be carried out by trained and qualified personnel only.
- The installation must be carried out in accordance with the protection class.
- In the end application, the user shall not be able to come into contact with live elements.
- When connecting to a power supply, the national regulations and guidelines for accident prevention must be met.
- It is recommended to use a fuse in the electrical main supply line.
- During maintenance and assembly works, the component must be fully disconnected from the net. This shall happen according to relevant regulations, with min. Contact separation must be at least 3mm.
- When connecting to the local power supply, please make sure that the mains voltage corresponds to the electrical information on the fan heater. The specified voltage shall not be exceeded.
- The safety temperature limiter (optional) shall be checked on its function when the heater is put into operation.
- Safety for the end user must be ensured by a safe and standard-conforming installation of the component.
- The connection cables shall not come into contact with the heater or be directed over it.
- The strands or connections correspond to the structure of an internal cabling.
- The end user must not come into contact with the component during operation.
- The fan heater must not be deformed.
- The installation must not be carried out in the vicinity of combustible materials.
- The heater shall not be installed close to flammable materials and adjacent parts shall be selected to withstand the maximum heater temperature of 230 °C (directly on the heater, in case of air flow failure).
- The heater is not suitable for use in humid, aggressive, corrosive or explosive environments (e. g. salty marine air, coal dust containing air, sulphurous air).

## 7. Before Use

### Storage:

The originally packed heating element can be stored under the following conditions:

- Ambient temperature: -40 to +40 °C
- Humidity: max. 95 % (non-condensing)

### Unpacking:

- Check the box for damage
- Carefully remove the component from the box
- Check component for external damage
- Dispose of packing material according to local directives

### Operating Conditions:

- Ambient temperature: -35 to +25 °C
- Humidity: max. 95 % (non-condensing)

## 8. Operation of the Product

The information given does not release the customer from his own application tests.

When the heater is switched on for the first time, a slight smoke emission/smell could develop.

It is necessary to operate the heater in a dust-free environment or to use a suitable air filter.

## 9. Maintenance

This product is maintenance-free. A regular cleaning of the heater surface, as well as a visual check on possible damages is recommended. In case of malfunction, damage or failure of the heater, it shall be replaced completely.

## 10. Repair

This product cannot be repaired. In case of a defect, the entire component must be replaced.

## 11. Disposal if Not in Use or Defect

Disposal according to local legislation.



## 12. Standards

This product complies to the following National/European regulations.  
Low Voltage Directive; Harmonizing Standard; RoHS Directive

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