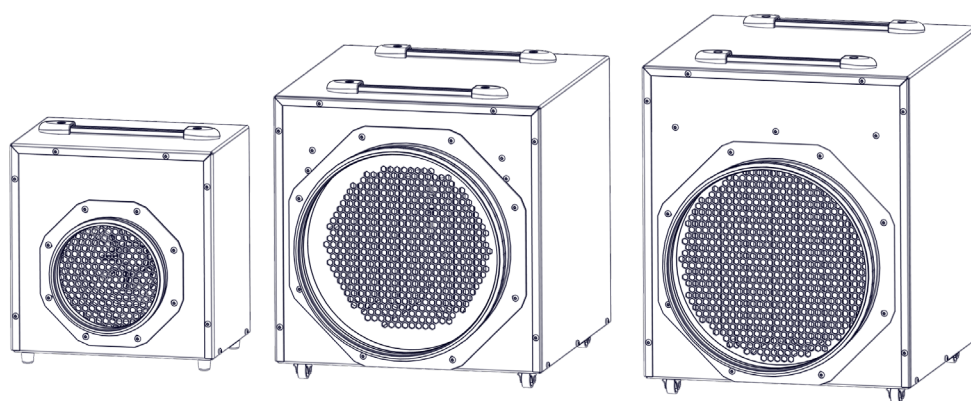


Manual



# KH2.5, KH9 KH12, KH18



*This product is only suitable for well-insulated areas or occasional use*

## SAFETY

Warning signs on the product

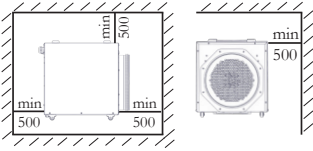


### WARNING!

The unit's air inlet and outlet must never be covered during operation.

### Safe distances

Portable design:



Read the instruction manual carefully and make sure you understand the contents before using heater fans KH2.5, KH9, KH12, KH18.

The manufacturer guarantees that this product fulfils safety requirements in accordance with the relevant EU directives and standards.

EU Declaration of Conformity, see [www.elbjorn.com](http://www.elbjorn.com).

### Safety during use

- Do not cover the heater fan. Never remove guards, panels or cover plates during operation. Do not allow children under the age of 3 near the equipment unless they are constantly supervised.
- Children between the ages of 3 and 8 should only be allowed to turn the appliance on/off if it is installed in its normal position and they have been instructed how to use it safely and understand the risks. Children between the ages of 3 and 8 must not be allowed to plug in, adjust or carry out maintenance on the equipment.

- The product is not intended for use by persons (including children) with diminished responsibility, reduced physical or mental capacity, or lack of experience and knowledge, unless they have been shown the use of the product or instructed in its use by a person who is responsible for their safety.
- However, the product is suitable for use in situations where there are persons (including children) with reduced physical or mental capacity or diminished responsibility.
- If children are in the proximity of the product, they must be informed that the product must not be used as a toy or a plaything.



*WARNING Parts of this equipment can get very hot and could cause burns. Take special care when children or vulnerable people are present.*

### Safety during service/maintenance

Disconnect the heater fan from the electrical supply before servicing or maintenance.

### Warning/note

Leave the heater fan switched off for a while before servicing so that it has time to cool down.

### MINIMUM EXPERTISE REQUIRED

Any servicing and installation work must be performed by a qualified professional.

### RISK ASSESSMENT

Do not position the heater fan so that the air inlet or outlet is blocked. Do not install directly underneath a fixed wall outlet. Do not use the heater fan near a bath, shower or pool.



*NOTE! Do not cover the heater fan.*

## INTRODUCTION

### DESCRIPTION

KH2.5, KH9, KH12, KH18 are all referred to in this section as the heater fan.

The section on safety must be read and understood by everyone who uses or repairs the heater fan. The user manual contains instructions on use of the product, and on the various maintenance operations that can be performed by the operator. More detailed service or troubleshooting must be performed by the manufacturer's service personnel. The user instructions describe all the necessary safety features. The user should read the instructions carefully before connecting the heater fan to the power supply. In other words, the first thing the user should do after delivery is to read the user instructions. Symbols and warning signs that appear in these instructions and on the heater fan are explained in the "Safety" section. If any of the warning signs on the heater fan have become damaged or worn, new signs must be ordered as quickly as possible in order to ensure the greatest possible safety when using the heater fan.

The heater fan may only be used for the purposes described in these instructions. The manufacturer reserves the right to make changes.

The housing is made of galvanised steel finished with epoxy paint. An axial universal motor blows air through the fan housing. The stainless steel tubular element is cooled by the air flow from the fan. The inlet and outlet are protected by finger guards. The temperature is controlled by an internal switch and a mechanical thermostat for room temperature control.

## APPLICATION AREA

The KH model can be used on building sites, in warehouses, workshops, stores, summer cottages, shops, manual car washes and similar areas. This model is not intended for use in the presence of extremely fine particles, such as during ice blasting, in textile or carpentry shops, stables or agriculture.

## TECHNICAL DATA

Type	KH2.5	KH9	KH12	KH18
Power settings	2 kW	4.5 and 9 kW	6 and 12 kW	9 and 18 kW

Protection rating VF series IP44

Seasonal average efficiency ( $\eta_s$ ) 36%



For other technical data, see [www.elbjorn.com](http://www.elbjorn.com).

EU Declaration of Conformity, see [www.elbjorn.com](http://www.elbjorn.com).

## INSTALLATION

### Electrical Installation

- KH2.5 (230V) is supplied with a 1.9 m cable and plug.
- KH2.5 (110V) is supplied with a 1.9 m cable and CEE 32A/110V connector.
- KH2.5 (110V/230V) is supplied with a 1.9 m cable with plug and a 1.9 m cable with CEE 32A/110V connector.
- KH9 is supplied with a 0.74 m cable and CEE 16A/400V connector.
- KH12 & KH18 are supplied with a 1.2 m cable and CEE 32A/400V connector.

NOTE! Wall outlets and other electrical equipment must be installed by qualified electricians.

If the power cord is damaged it may only be replaced by the manufacturer or suitably qualified person.



NOTE! Any outlet that supplies the heater fan must be protected by a residual current device (RCD).

### Inspection before operation

Check that the heater fan is connected to an electrical outlet with a residual current device.



NOTE! Do not cover the heater fan.

### Installation/Assembly

Do not mount the fan in a location where the inlet or outlet could be blocked. Do not cover or mount directly underneath a fixed wall outlet.

The plug must be accessible after installation.

If connecting any kind of air outlet duct to this product you must make sure that it is constructed using materials that can withstand the outlet temperature of this machine, which can be up to 100°C. Using duct constructed from unsuitable materials for this connection could result in a fire.

If in doubt, please contact your supplier for more information.

## OPERATION

### HANDLING DURING NORMAL OPERATION

Thermostat temperature range: min 0°C – max +24°C.

KH2.5: Start the heater fan by plugging it into a wall socket and setting the thermostat (0°C - +24°C) to the desired setting.

Thermostat only controls the heating, the fan motor runs continuously.

KH9, KH12, KH18: Start the heater fan by setting the power selector and thermostat (0°C - +24°C) to the desired settings.

Thermostat only controls the heating, the fan motor runs continuously in all settings.

### COOLING DOWN

KH2.5-18: When switching off the heating fan, run the cool down mode for at least one minute. This is done by switching off the heat and only running the fan.

### Power selector KH9, KH12, KH18

- 0 = off.
- ✘ = full fan.
- ✘◐ = full fan + half power.
- ✘● = full fan + full power.

### Overheating protector

KH2.5-18: The overheating protector is automatically reset about 5 minutes after the heater fan has been unplugged and left to cool down.

### If the overheating protector is triggered

- Disconnect the power.
- Check the operation of the fan and make sure that the fan motor is not locked.
- If the fault is still present or the problem recurs, consult a qualified electrician.

## SERVICE

### MAINTENANCE

Keep the fan free from dust and dirt. Blow clean with compressed air if necessary. Clean the exterior with a mild soap solution.

Check the operation of the heater fan and visually inspect connectors and cables. If the heater fan has been unused for a long time, blow it clean before use.

### TROUBLESHOOTING/CHECK LIST

#### The heater fan only blows cold air:

The fan motor switch is set to continuous operation.

#### Overheating protector has tripped:

Wait for the machine to cool down and the overheating protector will reset automatically.

#### The heater does not operate at full power:

Check that none of the fuses has blown.

#### The heater fan does not run:

Check that the main switch is on.

Check the residual current device.

Check that the fuses are OK.

Check that the thermostat is correctly adjusted.

Check that the overheating protector has not tripped.

**If the fault is still present or the problem recurs, consult a qualified electrician.**

**NOTE! During the warranty period, always contact the distributor before performing a repair.**

#### Storage

When the heater fan is not in use it must be stored in dry, weatherproof premises.

## DISPOSAL

Take the heater fan to a recycling station according to state or local regulations. In Sweden, the heater fan is covered by the El-Kretsen collection and recycling rules.

In countries outside Sweden the heater fan must be recycled in accordance with the relevant national regulations.

## WARRANTY

El-Björn AB's products and deliveries are regulated by Standard Agreement

NL 09. According to this Agreement, El-Björn AB is liable for faults arising within one year after delivery.

The provisions of NL 09 also apply for professional parties who register according to the instructions below, although with the following modification:

El-Björn AB is responsible for faults arising within five years of delivery.

This only applies to products that are registered on the website.

In other respects, the provisions of NL 09 apply.

To obtain this extended warranty, you must register within 14 days from the date of purchase of the products.

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