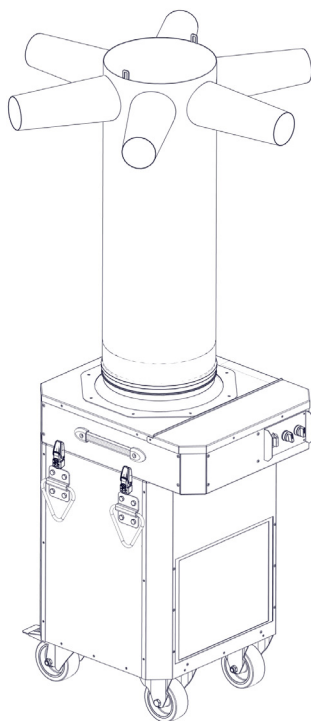


Manual

EN



# TF18 EBS



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

## SAFETY



Read the instruction manual carefully and ensure you understand the content before using the product.

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).

### Warning signs on the product.

If these are missing they must be replaced with new ones as soon as possible. These are available from the El-Björn website.

### Safety during assembly

- If extension cables are used: Only use approved extension cables that are marked for outdoor use.
- Connect the machine to a power distribution box with a residual current device.
- Check the electrical box and electrical cables before start-up/disconnection. Replace any defective parts.
- The machine must be turned off before installing the El-Björn air distributor with spiral reinforcement.
- Make sure the distance between the machine and the wall is at least 0.5 m.
- Do not use the machine close to showers, baths, pools etc.

### Safety during use

- The machine must always be connected to an El-Björn air distributor with spiral reinforcement.
- The machine must never be covered during operation.
- The wheels must be locked during operation.
- The cover must be fitted to the electrical box.
- The 4 lever lock fasteners must be locked with a spanner throughout operation.
- Keep the machine and working area clean.
- Do not mistreat the electrical cable. Do not jerk the electrical cable out of the electrical inlet/outlet. Do not expose it to high tempera-

tures, oil, or sharp edges.

- Make sure the machine is standing on a firm, level surface.
- Important: Do not try to lift the machine using the carrying handle for Module 2 (heating module).
- 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 machine 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 machine.
- This equipment may be used by children aged 8 upwards and by persons with reduced physical ability, impaired judgement or mental capacity, or lack of experience and knowledge, providing that they have been shown or instructed in the safe use of the equipment and they understand the risks. Children must not play with the equipment. Children may not clean or perform maintenance on the device without supervision.

**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

The machine must be isolated from the electrical supply before servicing/maintenance.

### PERSONAL PROTECTIVE EQUIPMENT

Use a respirator and gloves when replacing the air filter. Put the spent filter in a bag and close it.

### MINIMUM EXPERTISE REQUIRED

Any servicing and installation work must be performed by a qualified service technician, qualified professional or the manufacturer.

## RISK ASSESSMENT

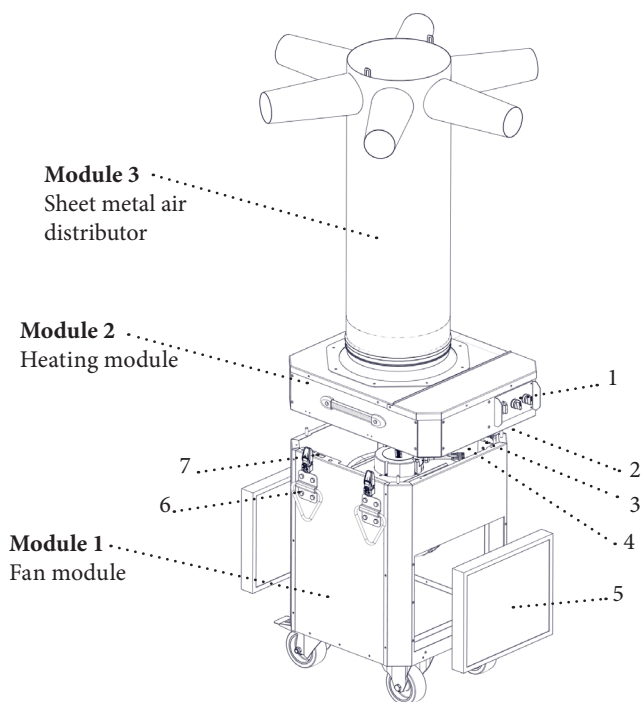
Using spare parts or accessories that have not been recommended by El-Björn increases the risk of injury or damage to the machine.

The machine is only intended for temporary drying and heating of rooms. When using electrical machinery, basic safety regulations shall always be followed, in order to reduce the risk of fire, electric shocks, burns or other personal injury.

**Read the instructions before starting the machine and save the instructions for safe operation.**

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## INTRODUCTION



1. Control panel
2. Fuses
3. overheating, reset
4. Inlet
5. Filter
6. Lifting eyes
7. Lever lock fastener

## DESCRIPTION

The entire product is constructed from powder-coated, corrosion-resistant, galvanized sheet steel.

The machine comprises 3 main modules.

Module 1. (Fan module) includes wheels, filter, fan and lifting eyes.

Module 2. (Heating module) includes control panel, inlet, fuses and heating element.

Module 3. Textile air distributor.

### Module 1.

- 4 x heavy-duty wheels for moving machine, 2 of which are lockable.
- 4 x lifting eyes for moving machine or suspending it from ceiling.
- 2 x filters with additional pre-filter for extended life.

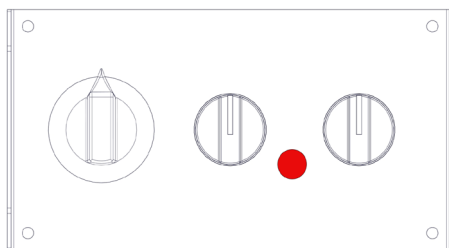
### Module 2.

- Inlet, fuses and overheating protection are well protected beneath overhang.
- Removable cover on top for electrical box. Accessible only by qualified service technician.
- All machine controls are provided on the control panel.

### Module 3.

Textile air distributor with spiral reinforcement

The air is drawn in through two filters from the front and rear of the machine (Module 1). This acts like an intake noise attenuator as air pressure builds up in the fan compartment. The air is heated (Module 2) by the heating elements and flows out through the textile air distributor (Module 3) which propels the warm, dry air over a long distance.



Control panel

## TECHNICAL DATA

	TF18 EBS 400 VAC
H incl. air distributor	2150 mm
H excl. air distributor	1000 mm
W	560 mm
D	640 mm
Total weight (top section, bottom section)	66 kg (23.5) (42.5)
Noise level	62/57 dB(A)
Rated current	27 A
Rated voltage	3N~400 V
Encapsulation class	IP44
Seasonal average efficiency ( $\eta_s$ )	36%
<b>Motor and air side</b>	
Fan voltage	1N~230 V
Fan power	500 W
Fan current	2.2 A
Air flow	2500/2040 m <sup>3</sup> /h
Temperature rise	22/23°C
<b>Electric heating</b>	
Electric elements	6 x 3 kW

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

**NOTE!**

The section concerning safety must be read and understood by everyone who uses or repairs this machine. The instructions describe operation and maintenance measures that can be performed by the operator. More detailed maintenance or troubleshooting may only be performed by a qualified professional or the manufacturer. The instructions describe all necessary safety features and must be read and understood by the user before connecting the machine to the electrical supply. In other words, the first action after delivery is to read through the operating instructions.

There are symbols and warning labels on the machine that are mentioned in the section on “Safety”. If any of the warning signs on the machine have become damaged or worn, new signs must be ordered and fitted as quickly as possible in order to ensure the greatest possible safety when using the machine.

The machine may only be used for the purposes described in this instruction.

The manufacturer reserves the right to make changes.

**APPLICATION AREA**

The TF model is intended for drying and heating buildings where there is a need for temporary heating, drying or air circulation. 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.

**INSTALLATION****CHECK BEFORE USE**

That the machine is protected by a residual current device.

That the filter is fitted and is clean and undamaged.

That cables and connectors are undamaged and in good condition.

That the textile air distributor is correctly connected and unobstructed.

That the wheels are locked.

Check that the machine is positioned at least 0.5 m away from the wall.

That the machine always stands on a firm, level surface.

to be suspended, use the 4 lifting eyes provided on the sides of Module 1. Check that these are not damaged or deformed. The lifting eyes are only designed to support the weight of the machine itself.

Position the machine in its designated place. Lock the wheels on the machine. Connect the El-Björn textile air distributor. Connect the power cable to a fused 5-pin 32 A socket that is protected by a residual current device.

**INSTALLATION**

In order to achieve the best drying and heating performance, the machine should be positioned as centrally in the room as possible. The machine must run continuously in order to achieve optimal results. Minimum distance from wall: 0.5 m. The machine should only be used upright, with its wheels/feet at the lowest point. If the machine is

## OPERATION

### HANDLING DURING NORMAL OPERATION

#### Start & stop

OFF/full and half speed

If the red light is on, it indicates that the machine's overheating protection has been activated.

#### Adjusting the indoor temperature

Set the thermostat to the desired temperature in the range +8-32°C.

#### Setting the desired power level

Select either 9 or 18 kW.

#### Replacement of filter

- Replace the filter every 4 weeks or as necessary. The filter must be fitted so that the arrow on the filter points inwards towards the machine. Always use original filters from El-Björn.
- Turn off the machine using the ON/OFF switch.
- Restart the machine.

**NOTE!** Use a respirator and gloves when replacing the air filter. Put the spent filter in a bag and close it.

## DEINSTALLATION

Switch off the machine as described above (this extends the life of the machine). Disconnect the electrical cable. The machine can now be transported.

## SERVICE

### MAINTENANCE

Day-to-day maintenance should be performed on site by an appointed operator.

**NOTE!** After the first season of use it is especially important to tighten electrical connections, the fan motor mounting and the electric element nuts and connections.

#### Warning!

To eliminate the risk of injury, always disconnect from the electrical supply before starting any service work. The following points must be checked by the operator.

- Keep the machine in good condition by servicing it regularly.
- Before using the machine, always check the operation of the main components (fan and heating elements).
- Check and tighten the heating elements.
- Check and tighten electrical connections on the machine.
- Check that there are no loose screws and that all parts are properly attached.
- Make sure there are no defective parts that could compromise safety.
- In the event of abnormal noise or vibrations, switch off the machine immediately and make sure the fault is repaired.
- Filters should be replaced after around 4 weeks or as required.
- Never use a machine that is damaged.
- Always mark a defective machine with "Not to be used" until it has been repaired.

### HANDLING DURING ABNORMAL OPERATION

Check that the fuses in the nearest electrical cabinet have not blown and that the residual current device has not tripped.

Check the fuses inside the machine.

If the red light is on, wait until the machine has cooled down, then press the overheat protection reset button and the light will turn off.

If this does not help, contact an authorized service technician, professional or the manufacturer.

#### Cooling down IMPORTANT!

The heating elements get very hot (about 300°C), so it is vital that they cool down after use in order to maximise the machine's lifespan. This must be done every time the machine is turned off prior to filter replacement or before the machine is moved.

## Cleaning

- Always replace the filter after use.
- Clean externally with a mild soap solution and a damp cloth.
- Air-blow the inside of the machine carefully, then wipe with a damp cloth.
- Never use inflammable or combustible solvents near the machine.

**NOTE! All repairs to electrical parts must be performed by a qualified professional or the manufacturer.**

## TROUBLESHOOTING/CHECK LIST

### The machine does not start

- Check that the fuses in the nearest electrical cabinet are intact.
- Check whether the residual current device in the nearest electrical cabinet has tripped.
- The machine is overheated and the red light is on, which means that the machine cannot be started until the temperature has dropped. Then press the reset button.

- Check whether the fuses in the machine have tripped. These are located next to the inlet behind the fuse cover.
- Check that the overheating lamp is not lit. If the light is on, let the machine cool down, then start the machine.

### The machine emits too little air

- Check that the air distributor/vents are not blocked.
- Check that the air inlet and filter are not clogged.

### There is no hot air supply

- Check that the temperature setting is correct.
- Check whether the fuses have tripped. These are located beneath the inlet behind the fuse cover.
- Check that the overheating protection has not tripped. If it is triggered, the red light is on, then press the button located below next to the fuse cover

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## TRANSPORTATION/STORAGE

The machine must always be transported upright. Before transporting the machine, fix the air distributor in its lowered position if necessary. During transportation, the machine must be anchored to the transport vehicle. The machine should only be lifted using the 4 lifting eyes on the sides of Module 1. When the machine is not in use, store it indoors where it is dry and there is no risk of freezing.

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## SCRAPPING



Take the machine to a recycling station according to state or local regulations.

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## WARRANTY

El-Björn AB's products and deliveries are regulated by Standard Agreement NL 09. Under these provisions, El-Björn AB is responsible for faults arising within one year from 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 liable for faults arising within five years after delivery; this only applies to products 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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