# TDS 75 / TDS 100 / TDS 120

EN

**OPERATING MANUAL**
ELECTRIC HEATING DEVICE

TROTEC
AT WORK.

TRT-BA-TDS-75-100-120-TC-002-EN

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## Notes regarding the operating manual

### Symbols

**Hazardous electric current!**
Warns about hazards from electric current which can lead to injuries or even death.

**Danger!**
Warns of a hazard which can lead to personal injury.

**Caution!**
Warns of a hazard which can lead to damage to property.

The current version of the operating manual can be found at:

**TDS 75**

http://download.trotec.com/?sku=1410000025&id=1

**TDS 100**

http://download.trotec.com/?sku=1410000030&id=1

**TDS 120**

http://download.trotec.com/?sku=1410000032&id=1

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### Warranty and liability

The device complies with the fundamental health and safety requirements of the applicable EU regulations and was tested at the factory for perfect functionality multiple times. However, if faults in the functionality occur and cannot be remedied with the measures in the chapter Errors and faults, please get in touch with your dealer or distributor. When making a warranty claim, supply the serial number (see nameplate).
When manufacturer's instructions or legal regulations have not been followed, or after unauthorised changes to the device are made, the manufacturer is not responsible for the resulting damages. Changes to the device or unauthorised replacement of individual parts can drastically impact the electrical safety of this product and leads to the forfeit of the warranty. Liability does not extend to damages to people or property caused by the device being used other than as described in the instructions in this operating manual. Subject to changes to technical design and model changes as part of constant development and product improvement without prior notice.
No liability is accepted for damages resulting from improper use. In such cases, entitlements to a warranty are then also forfeited.

## Safety

**Carefully read the operating manual before using the device and keep it within reach!**

**Danger!**

**Improper use of the heating device can result in severe injuries due to burns, fire hazard or electric shocks.**

- Ensure a minimum distance of 50 cm to combustible substances. Do not use the device in rooms where fuel, solvents, varnishes or other easily inflammable vapours are stored. Do not use the device in immediate proximity to curtains.
- Keep away from children and animals. Do not leave the device unattended during operation.
- Only connect the device to the mains, if voltage and frequency correspond to the values given on the nameplate.
- Only use extension cables with an adequate cross-section for this capacity. Extension cables must always be reeled off completely.
- Disconnect the device from the mains, if it is not in use.
- Observe the storage and operating conditions (see chapter Technical annex).
- Unplug the device from the mains before starting with maintenance, service or repair work.
- Never cover the device with anything, otherwise it could overheat. Fire hazard.

### Intended use

Only use the devices TDS 75 / TDS 100 / TDS 120 to heat enclosed spaces such as storage facilities, salesrooms, flats as well as to heat construction areas and containers whilst adhering to the technical data.

### Improper use

Do not place the devices TDS 75 / TDS 100 / TDS 120 on wet or flooded ground. Do not use the device outdoors. Do not place any objects on the device for drying. Do not use this heating device in immediate proximity to sinks, bathtubs, showers or swimming pools.

Any unauthorised changes, modifications or alterations to the device are forbidden.

### Personnel qualifications

People who use this device must:

- be aware of the dangers that occur when working with electric devices in damp areas.
- have read and understood the operating manual, especially the Safety chapter.

### Residual risks

**Hazardous electric voltage!**

Work on the electrical components must only be carried out by an authorised specialist company!

**Hazardous electric voltage!**

Before any work on the device, remove the mains plug from the mains socket!

**Danger!**

The device is not a toy and does not belong in the hands of children.

**Danger!**

Improper handling entails a risk of burning and electric shock. Only use the device as intended!

**Danger!**

Do not leave the packaging lying around. Children may use it as a dangerous toy.

**Danger!**

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!

**Caution!**

In order to avoid overheating and fire hazards, the heater must not be covered.

### Behaviour in the event of an emergency

1. Disconnect the device from the mains power in an emergency.
2. Do not reconnect a defective device to the mains power.

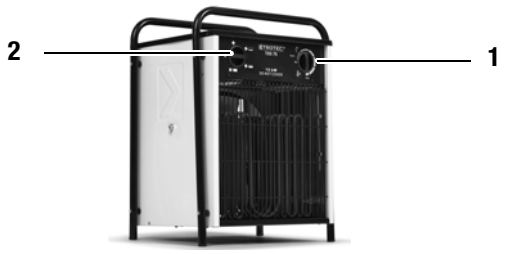
## Information about the device

### Description of the device

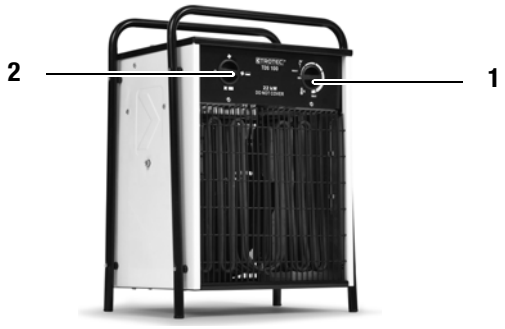
The electric heating devices TDS 75 / TDS 100 / TDS 120 serve to generate and distribute warm air, e.g. in interior spaces.
The device generates heat by means of a heating element. The air surrounding the heating element is heated. The heated air is blown into the room by a fan.
The device comes with an integrated thermostat and so generates a constant flow of warm air.
Fan operation without heating function is also possible.

### Device depiction

**TDS 75**




**TDS 100**




**TDS 120**


| No. | Operating element |
|---|---|
| 1 | rotary switch thermostat |
| 2 | selection switch ventilation and heating levels |

## Transport and storage

- Remove all packing materials which serve to protect the device during transport.
- Should the heating device be damaged, please contact the responsible dealer, where the purchase was made.

### Storage

- If you have do not use the device for extended periods of time, thoroughly clean it before putting it away.
- Store it in a dry location and protect it against dust.
- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.

## Operation

**Warning!**
**Read and observe the warnings and instructions in the Safety chapter. Abide by it to ensure a safe operation of this heating device.**

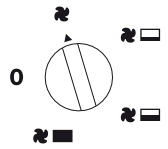
Check whether the power cable is intact. If the power cable is damaged, it must be replaced by the manufacturer, his customer service or similarly qualified personnel. Make sure that the electrical properties of the socket correspond to the values specified in the operating manual or on the nameplate. Place the device on dry, even ground. Make sure that the device cannot come into contact with moisture or water at this installation site.

## Switch-on

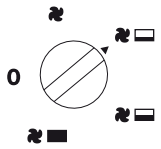
1. Plug the device into a sufficiently fused socket.
2. Turn the switch to the desired position:

**Caution!**
Always switch the device on or off via the fan stage (stage 1)!

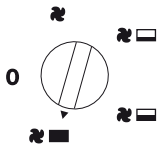
**TDS 75**



**stage 1**
**ventilation only**

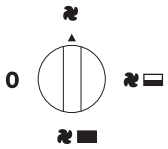


**stage 2**
**heating level I:**
**minimum**

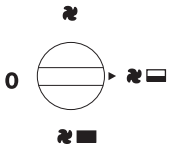


**stage 4**
**heating level III:**
**maximum**

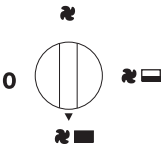
**TDS 100**



**stage 1**
**ventilation only**

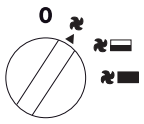


**stage 2**
**heating level I:**
**minimum**

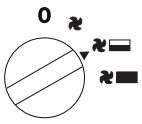


**stage 3**
**heating level II:**
**maximum**

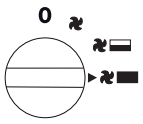
**TDS 120**



**stage 1**
**ventilation only**



**stage 2**
**heating level I:**
**minimum**

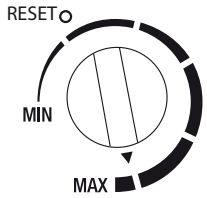


**stage 3**
**heating level II:**
**maximum**

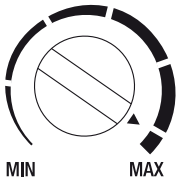
## Switch-off

1. Keep the fan running for 3 minutes (at stage 1), before switching the device off.
2. Turn the switch into position **OFF**.
3. Pull the plug from the mains socket.

## Regulation of the room thermostat




**TDS 75**
**TDS 100**




**TDS 120**

Adjust the room temperature by turning the rotary switch of the room thermostat.
When the set value is exceeded, the heating switches off while the fan keeps running.

## Overheating protection

The device is provided with a safety thermostat, which is activated by overheating of the device. In such an event the device switches off automatically.
When the safety thermostat is activated, allow the device to cool down. Only then start to look for a cause of the overheating. Should the problem continue to exist, please contact the customer service.

## Errors and faults

| Fault | Cause | Remedy |
|---|---|---|
| The device is switched on, the fan is operating, the heating is not. | The heating resistor has blown. | Have it replaced. |
| | Room thermostat is defective. | Have it replaced. |
| The device does not switch on. | Motor is defective. | Have it replaced. |
| | Mains voltage is interrupted. | Unplug and check mains connection. |
| The air current is reduced. | Air inlet is blocked. | Clean air inlet and remove obstruction. |
| | Fan motor is defective. | Have it replaced. |

## Maintenance and repair

**For maintenance or repair work which requires the housing to be opened, contact the Trotec customer service.**

### Activities required before starting maintenance

- Do not touch the mains plug with wet or damp hands.
- Before any work, detach the mains plug!

### Cleaning the housing

Clean the device with a soft, damp and lint-free cloth. Do not use sprays, solvents or harsh cleaners to dampen the cloth.

## Disposal

In the European Union, electronic equipment must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2002/96/EC of the European Parliament and Council of 27th January 2003 concerning old electrical and electronic equipment. At the end of its life, please dispose of this device according to the valid legal requirements.

# Technical annex

## Technical data

| Parameter | | Value | | |
|---|---|---|---|---|
| Model: | | **TDS 75** | **TDS 100** | **TDS 120** |
| Heating capacity: | stage 1 | ventilation only | ventilation only | ventilation only |
| | stage 2 | 5 kW | 11 kW | 15 kW |
| | stage 3 | 10 kW | 22 kW | 30 kW |
| | stage 4 | 15 kW | - | - |
| Air volume flow: | | 1293 $m^3$/h | 1632 $m^3$/h | 1980 $m^3$/h |
| Nominal current: | | 21.7 A | 32 A | 43 A |
| Mains connection: | | 3/N/PE~ 400 V, 50 Hz | 3/N/PE~ 400 V, 50 Hz | 3/N/PE~ 400 V, 50 Hz |
| Connection plug: | | CEE 32 A, 5-pin | CEE 63 A, 5-pin | CEE 63 A, 5-pin |
| Dimensions (height x width x depth): | | 540 x 405 x 332 (mm) | 610 x 440 x 430 (mm) | 785 x 530 x 535 (mm) |
| Weight: | | 14.9 kg | 20.2 kg | 25 kg |
| Sound level: | | 60 dB (A) | 73 dB (A) | 59 dB (A) |
| Surrounding conditions: | | 0 °C to 45 °C / max. 90% RH | 0 °C to 45 °C / max. 90% RH | 0 °C to 45 °C / max. 90% RH |

## Declaration of conformity

in accordance with the EC Low Voltage Directive 2006/95/EC and the EC Directive 2004/108/EC about electromagnetic compatibility.
Herewith, we declare that the electric heating devices TDS 75 / TDS 100 / TDS 120 were developed, constructed and produced in compliance with the named EC directives.

Applied harmonised standards:
EN 60335-1:2012
EN 60335-2-30:2009/A11:2012
EN 62233:2008
EN 55014-1:2006/A1:2009 and A2:2011
EN 55014-2:1997/A1:2001 and A2:2008
EN 61000-3-2:2006/A1:2009 and A2:2009
EN 61000-3-3:2013

Further applied standards:
EN 62321:2009

The CE marking is found on the device nameplate.

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