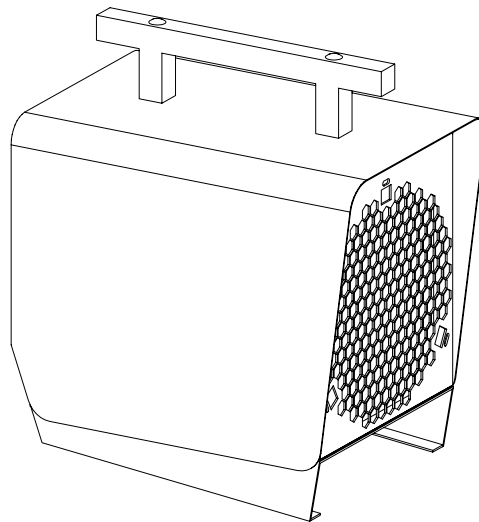




REMKO TX 3000 Electric Heaters



**Operation
Technology
Spare Parts**

Operating instructions

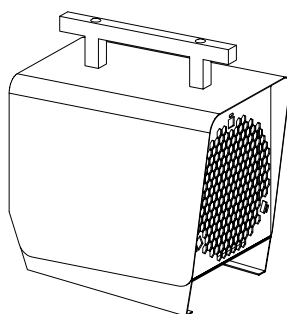
Make sure to read these instructions carefully before starting/using the unit!

Our guarantee will become void when the unit supplied by us is used and installed for inadequate purposes, or maintained incorrectly, etc., or if it is changed without our prior consent.

Subject to alterations!

Mobile Electric Heaters TX 3000

CE



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Always keep these operating instructions near or on the unit!




Safety Instructions

REMKO electric heaters will provide you with high utility and long life thanks to our extensive material, function and quality controls. Dangers may arise nevertheless if the unit is used by persons not familiar with its operation or if the unit is not used for its intended purpose

Please pay attention to the following points:

- ◇ The persons charged with the operation of the units have to check these before starting work as to visible defects of the operation and safety devices, as well as to make sure that no protective devices are missing.
In the case of faults the supervisor is to be informed.
- ◇ In the case of faults which endanger the safe operation of the units, the units are to be stopped.
- ◇ During the operation of the units the applicable local regulations are to be observed and the relevant safety measures to be taken.
- ◇ Make sure that the prescribed safety distances from combustible objects are observed.
- ◇ A free air suction and air discharge must be ensured.
- ◇ The blow off opening of the unit may not be narrowed or equipped with hoses or conduits.
- ◇ Never place foreign objects into the unit.
- ◇ Do not cover the units during operation.
- ◇ The units may not be operated near bath tubs, showers, swimming pools, etc.
- ◇ The units may not be operated directly beneath a wall socket.
- ◇ The units may not be exposed to direct water jets.
- ◇ Make sure that no water penetrates inside the units.
- ◇ The units may not be operated in rooms which are endangered by explosions.
- ◇ Protect all electric cables outside the units from damage (e.g. caused by animals).

 **The electric connection of the units is to be carried out via a special supply point with fault current safety switch.**

Description of the Unit

The units are operating with electric energy and are suitable for a fully automatic, all-purpose and simple application.

The units are equipped with a capsuled electrical heating element, room thermostat, noiseless maintenance-free axial fans, safety and after-cooling thermostat and connecting cable with plug.

The units are in accordance with the basic safety and health requirements of the relevant EC – regulation.

The units are handled simply and are safe in operation.

Application

- ◇ Drying of new buildings.
- ◇ Spot heating of working places outside or in fire-proof halls and production places.
- ◇ Permanent or temporary heating of rooms.
- ◇ Defrosting of machines vehicles and fire-proof storing goods with keeping the prescribed distance of safety.

Working of the unit

The units are equipped with a 2-stage operating switch. In the first stage the heating element are activated and hot air is discharged.

The units are operated with a room thermostat to ensure a constant room temperature. When the pre-selected temperature has been reached, the thermostat stops the heating operation to restart it when the temperature has fallen below the set value.

When the units have been switched off by the operating switch or the room thermostat, the supply air fan continues running for a certain time to cool down the heat exchanger, and then it stops automatically.

If the temperature at the blower aperture rises above 80° C the heating operation is stopped and will restart after the cooling-down period automatically.

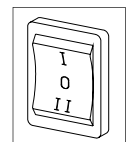
In the 2nd stage only the supply air fan is operated and the units can be used for air circulation.

 **For optimum unit operation, the device should not be operated at an ambient temperature above 25 °C.**

Starting

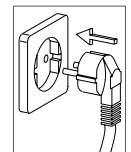
A well trained person is to be charged with the operation and control of the units.


1. Check the main voltage is in accordance with the unit voltage.
230V / 1~, N, PE / 50 Hz.



2. Put operating switch into position "0".

3. Insert the power plug into a correctly fused mains socket.
Fuse protection 16 A (inert).



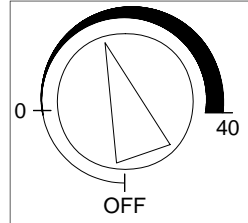
 **Connecting cable extensions may be laid exclusively by authorised electricians based on the unit capacity, cable length and taking the local terms of use into account.**

Heating

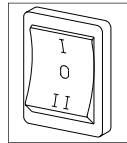
The unit runs fully automatically and is dependent on set temperatures.


If the temperature at the blower aperture rises above 80° C the heating operation is stopped and will restart after the cooling-down period automatically.

1. Pre-select desired room temperature on the room thermostat.



2. Put operating switch into position "I".
Heating

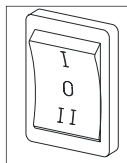


 **Extension cables may only be used once they are unrolled.**

Ventilation

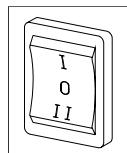
In this position only the supply air fan runs. The thermostat regulation and the heating operation is not possible.

1. Put operating switch into position "II".
Ventilation




Unit Shut Down

1. Put operating switch into position "O".
OFF.




Attention, important hints to the after-cooling phase

- ◇ The air supply fan continues running to cool down the unit and then stops later.
Fan can start several times before final switching off.
- ◇ Never interrupt (except in emergency situations) the connection to the mains before the end of the whole after-cooling phase.

 **Our guarantee does not cover damages caused to the unit by overheating.**

Maintenance

Regular maintenance and the observation of some basic principles is important to ensure a long service life and a trouble-free operation of the unit.

 **Prior to starting any work make sure to pull the mains plug out of the mains socket!**


Please pay attention to the following points:

- ◇ The unit is to be maintained and cleaned in regular intervals.
- ◇ The unit is to be kept free from dust and other deposits and is to be cleaned only with a dry or humid cloth.
Do not use water jet.
- ◇ Do not use any aggressive cleaning agents or those which are harmful or environmentally unfriendly.
- ◇ Do not use cleaning agents which contain solvents.
- ◇ Only use suitable cleaning agents to remove extreme dirt.
- ◇ Check safety devices regularly.
Check protective suction and blower grids regularly and clean, when necessary.
- ◇ Do not damage the sensor and capillary tube of the thermostat when the rear panel is installed or removed.
- ◇ According to the terms of use the units are to be checked as to their perfect operation by an expert when necessary, but at least once a year.

 **Please carry out an electrical safety test after having finished service on the unit.**

Service and Guarantee

Any claims under guarantee regarding materials can be accepted only when the orderer or his customer has filled in completely the "guarantee certificate" which is enclosed with every REMKO-heater and has returned it to REMKO GmbH & Co. KG in due time after the unit's sale and commissioning. The units are factory tested on faultless function. If any failures occurs though which cannot be eliminated by the operating person, please contact your dealer or contact person.

 **An operation/use other than that indicated in these instructions is prohibited!**
In the case of non-observation we will not be held responsible and our guarantee will become void.

Correct usage

The units are to be used only for heating and ventilation purpose in industrial or commercial application because of their construction and equipment. If specification of the manufacturer or legal regulations, are not followed or if unauthorised changes are made on the unit, the manufacturer is not liable for resulting damages.

Troubleshooting

Prior to starting any work make sure to pull the mains plug out of the mains socket!
Setting and maintenance is to be carried out only by authorised experts!

Unit (fan) does not start:

1. Check main fuse
2. Check connecting cable with plug
3. Check operating switch
4. Check slight drifting of fan (motor)

Unit does not heat

1. Check operating switch
2. Check function of the temperature limiter
3. Check room thermostat
4. Check room thermostat-operation: thermostat must be set higher than the room temperature

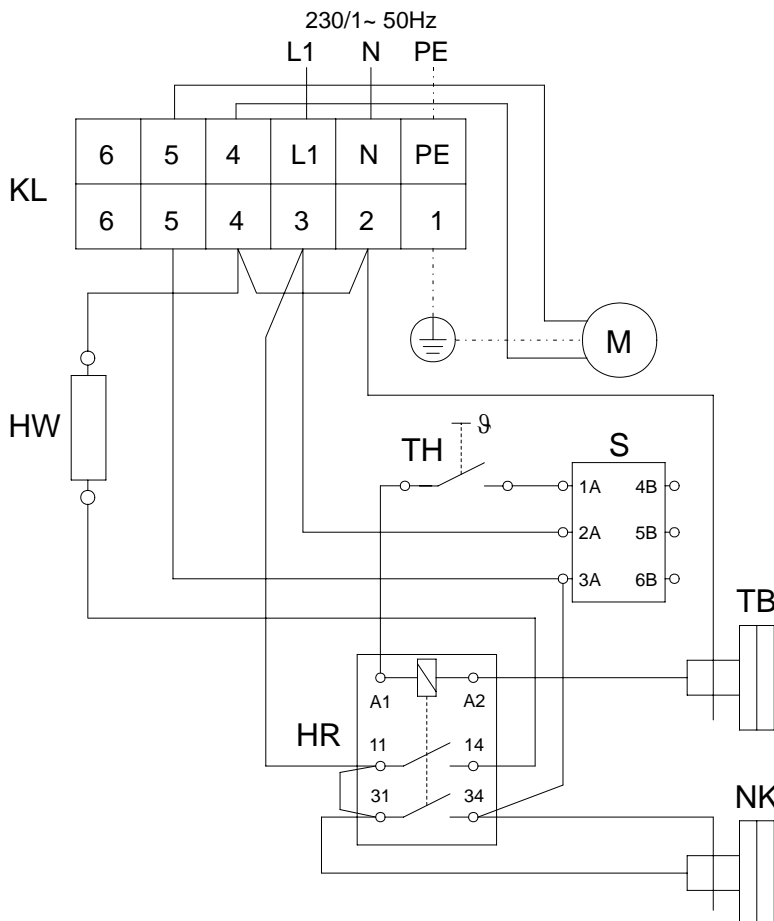
Should the unit still not be working despite these checks, please contact an authorised service centre.

Technical Data

Series		TX 3000
Nominal heat output	kW	3,0
Air output	m ³ /h	300
Electrical connection	V	230/1~, N, PE
Frequency	Hz	50
Rated current max.	A	13,1
Power consumption max.	kW	3,05
Fuse protection (required)	A (inert)	16
Sound pressure level $L_{pA} 1m^{1)}$	dB (A)	46
Dimensions	Length	mm 400
	Width	mm 200
	Height	mm 340
Weight	kg	8,0

1) noise measuring DIN 45635 - 01 - KL 3

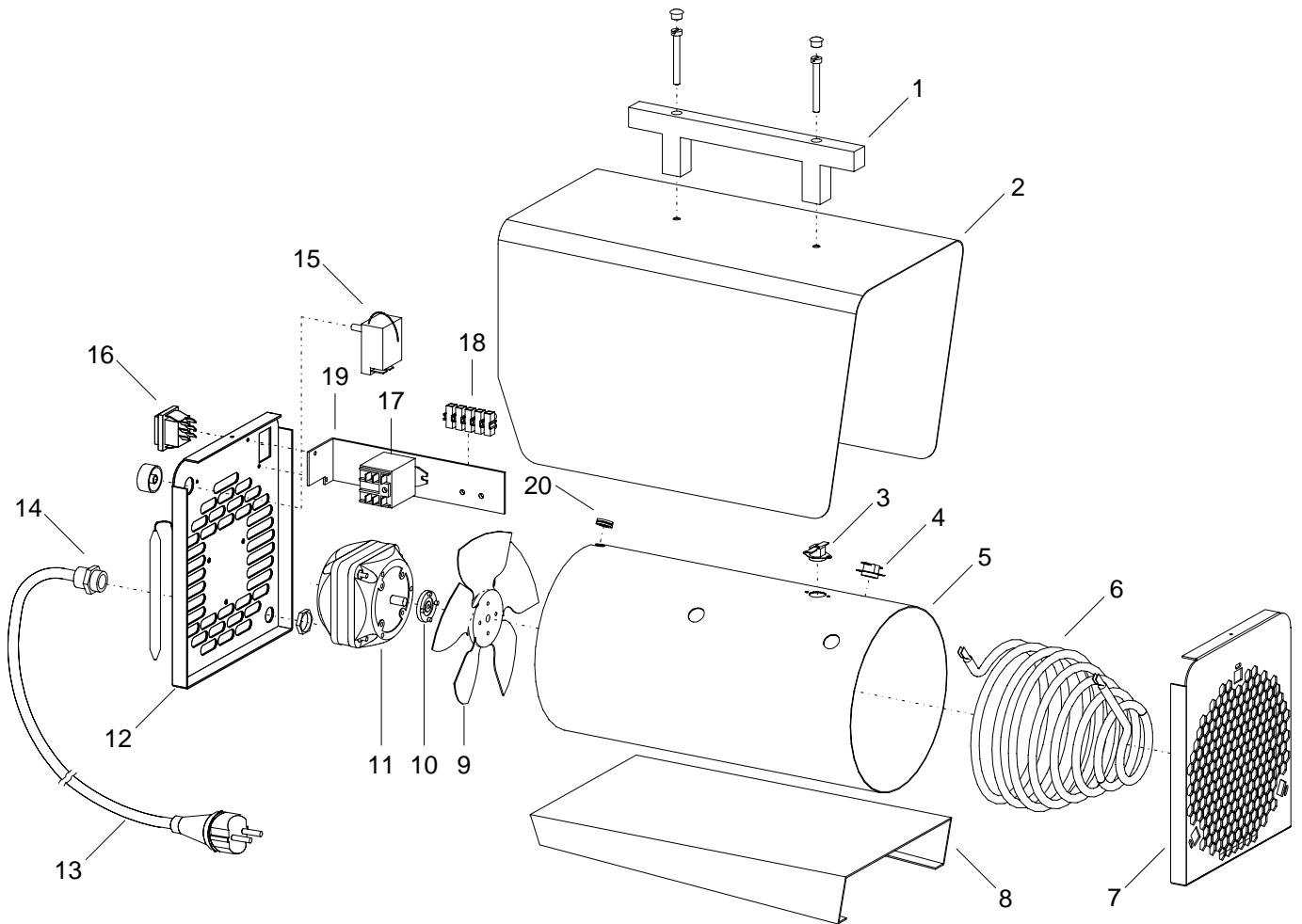
Wiring Diagram



Legend

- HR = contactor
- HW = heating element
- KL = terminal strip
- M = fanmotor
- NK = recool thermostat
- S = operating switch
- TB = temperature limiter
- TH = room thermostat

Exploded View



Spare Part List

No.	Description	Ref.-No.
1	transport handle	1101142
2	outside casing	1101060
3	recool thermostat	1104065
4	temperature limiter	1101161
5	inside casing	1101061
6	heating element	1101062
7	front panel	1101063
8	base plate	1103911
9	fan blade	1103902
10	clutch plate	1108014
11	fan motor	1101064
12	rear panel	1101065
13	connecting cable with plug	1103901
14	traction relief	1101267
15	room thermostat with sensor	1101066
16	operating switch, cpl.	1101188
17	contactor	1108038
18	terminal strip, 6 fold	1101366
19	angle support	1101067
20	protection socket	1101304

We reserve the right to make modifications in dimensions and construction in the interests of technical progress.

REMKO GmbH & Co. KG

Klima- und Wärmetechnik

32791 Lage, Im Seelenkamp 12

32777 Lage, PO Box 1827

Phone +49 5232 606-0

Fax +49 5232 606-260

E-Mail info@remko.de

Internet www.remko.de