

# TTK 140 S / TTK 170 S / TTK 350 S / TTK 650 S

EN

OPERATING MANUAL  
DEHUMIDIFIER



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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 property damage.

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

TTK 140 S



<http://download.trotec.com/?sku=1120000141&id=1>

TTK 170 S



<http://download.trotec.com/?sku=1120000155&id=1>



TTK 350 S



<http://download.trotec.com/?sku=1120000160&id=1>

TTK 650 S



<http://download.trotec.com/?sku=1120000171&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 device number (see the rear of the device).

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 a case, any warranty claims be voided also.

## Safety

**Carefully read this manual before starting / using the device and keep it within reach.**

- Do not use the device in potentially explosive rooms.
- Do not use the device in aggressive atmosphere.
- Set the device up in an upright and stable position.
- Ensure that the air inlet and outlet are not obstructed.
- Ensure that the side of the device where the air inlet is found is kept free of dirt and loose objects.
- Never reach or put objects into the device.
- Do not cover or transport the device during operation.
- Do not use the device with wet or damp hands.
- Ensure that all electric cables outside of the device are protected from damage (e.g. from animals). Never use the device if the cable or power connection is damaged!
- Only use extensions to the connecting cable which are appropriate to the device power consumption, the length of its cable and its use. Completely unroll extension cables. Avoid electrical overload.
- Only transport the device in an upright position with an emptied condensation tank.
- Dispose of the collected condensate. Do not drink it. Health hazard!
- Unplug the device from the mains before starting with maintenance, service or repair work.

## Intended use

Only use the device TTK 140 S / TTK 170 S / TTK 350 S / TTK 650 S for drying and dehumidifying room air (e.g. after water damages from burst pipes or flooding), while adhering to and following the technical data.

Intended use comprises:

- drying and dehumidifying:
  - living rooms, bedrooms, bathrooms or basements
  - laundries, holiday homes, camper vans, boats
- maintaining the dryness of:
  - store rooms, archives, laboratories
  - bathrooms, wash rooms, changing rooms etc.

## Improper use

Do not place the device on flooded ground. Do not use the device outdoors. Do not place any objects, e.g. wet clothing, on the device for drying.

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 current!**

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



### **Hazardous electric current!**

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



### **Caution!**

To avoid damages to the device, do not operate the device without an air filter inserted!



### **Danger!**

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

## Behaviour in the event of an emergency

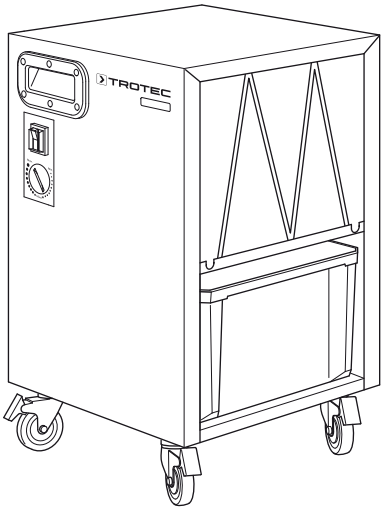
1. In an emergency, disconnect the device from the mains feed-in: Switch the device off and disconnect it from the mains.
2. Do not reconnect a defective device to the mains.

## Information about the device

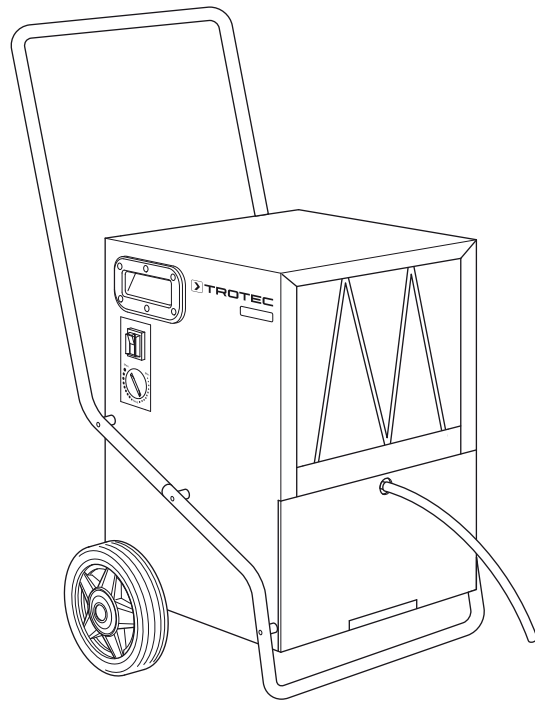
### Models

The TTK S series comprises the following devices:

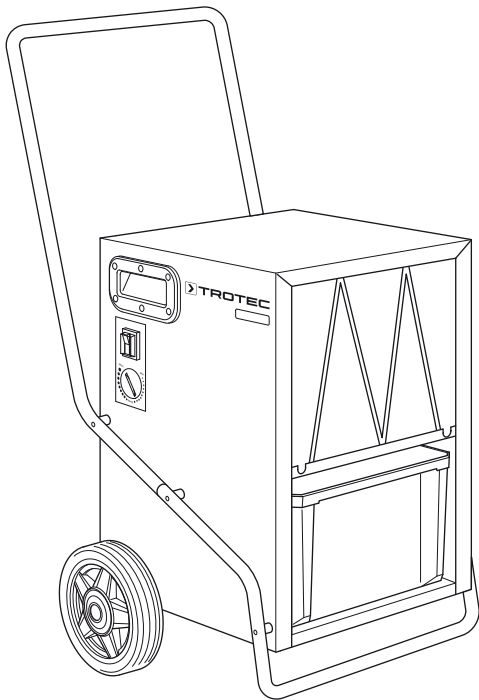
#### TTK 140 S



#### TTK 650 S



#### TTK 170 S / TTK 350 S



### Note!

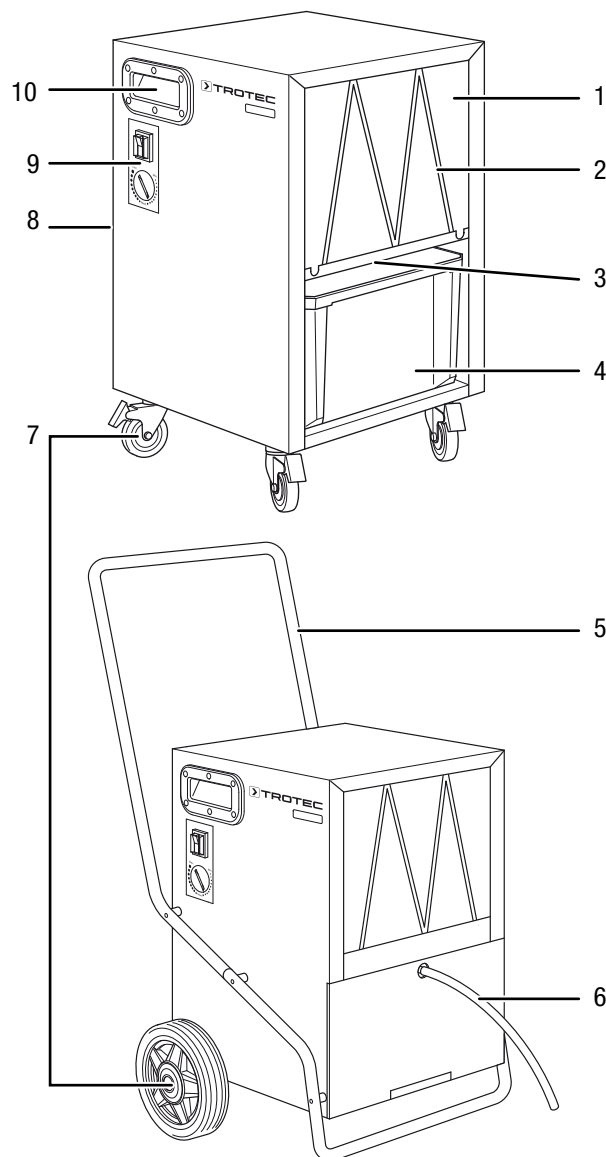
For simplification purposes the figures used in this documentation only depict one device, which can deviate from the actual version. The factual information content remains unaffected. If necessary in case of relevant differences the respective devices will be shown.

## Description of the device

The device uses the principle of condensation to automatically dehumidify rooms. The fan sucks damp room air through the air inlet, the air filter (1), the evaporator and to the condenser located behind it. The air is cooled at the cold evaporator until it is below the dew point. Water vapour contained in the room air precipitates on the evaporator fins as either condensation or rime. The dehumidified, cooled air is rewarmed at the condenser and blown out at a temperature of approx. 5 °C above room temperature. The drier air thus conditioned mixes with the air in the room. The humidity in the room where the device is positioned is reduced as air constantly circulates through the device. Depending on the air temperature and the relative humidity, the condensed water either drops continuously or only during the defrost phases into the condensation tray and through the integrated drain nozzle into the condensation tank below (4; only for TTK 140 S, TTK 170 S and TTK 350 S) or is discharged via the connected condensation drain hose (6) (only TTK 650 S). The filling level of the condensation tank (4) is detected by a rocker. The device has a control panel (9) for operating and controlling the functions. Once the maximum filling level of the condensation tank (4) is reached, the condensation tank indicator light (see chapter "Operating elements") on the control panel (9) flashes orange. The device switches off. The condensation tank indicator light only goes out again once the emptied condensation tank (4) is reinserted. Optionally, the condensed water can be discharged by means of a condensation drain hose attached to the hose connector (3) (see chapter Operation with hose attached to the condensation connection).

The device can reduce the relative humidity of a room as stated in the technical data. Because of the heat radiation which is tied up in operation, the room temperature can rise by approx. 1-4 °C.

## Device depiction



No.	Designation
1	Air filter at air inlet
2	Fixing bar of the air filter
3	Hose connector for condensation drain hose (TTK 140 S, TTK 170 S and TTK 350 S only)
4	Condensation tank (TTK 140 S, TTK 170 S and TTK 350 S only)
5	Transport handle (TTK 170 S, TTK 350 S and TTK 650 S only)
6	Condensation drain hose (TTK 650 S only)
7	Wheels
8	Air outlet
9	Control panel
10	Carrying handle

## Transport and storage

### Transport

To make the TTK 140 S easier to transport, it is fitted with adjustable wheels and carry handles on the sides.

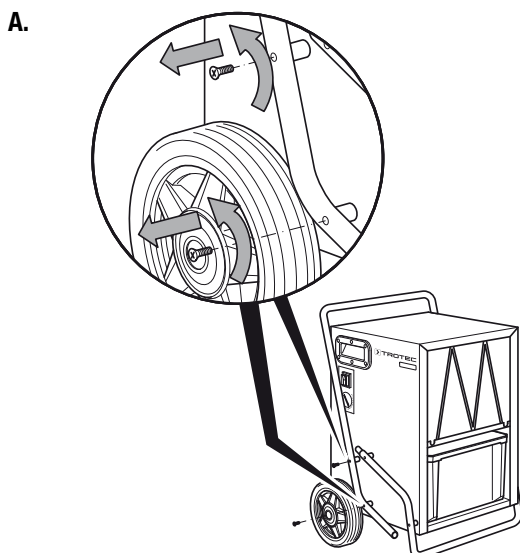
To make the TTK 170 S, TTK 350 S and TTK 650 S easier to transport, each of them is fitted with adjustable wheels and carry handles on the sides.

**Before** transporting the device, proceed as follows:

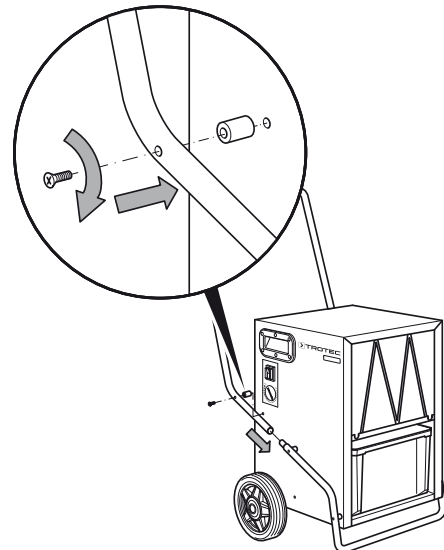
1. Switch off the device at the mains switch (see chapter Operating elements).
2. Remove the mains plug from the mains socket. Do not use the power cable to drag the device!
3. Empty the condensation tank or the condensation drain hose. Check for dripping condensation.
4. **The following only applies to TTK 170 S, TTK 350 S and TTK 650 S:**  
After unpacking the devices, mount the transport handle as follows:

#### Note!

After unpacking the device, the two lower screws must be unscrewed and the transport handle remounted using only one screw (i.e. one screw remains).



B.



5. Hold the transport handle in both hands and tilt the device so that it can be rolled on its wheels.
6. Move the device to the site where you want to use it.
7. **The following only applies to the TTK 140 S:**  
Move the device to the application site by use of the wheels and lateral carry handles.

**After** transporting the device, observe the following:

1. Set up the device in an upright position after transport.
2. **The following only applies to the TTK 140 S:**  
Lock the wheels of the TTK 140 S so that the device cannot roll away.

### Storage

When the device is not being used, observe the following storage conditions:

- dry,
- under roof,
- in an upright position where it is protected from dust and direct sunlight,
- With a cover to protect it from invasive dust, if necessary.
- The storage temperature is the same as the range given for the operating temperature in the technical data.

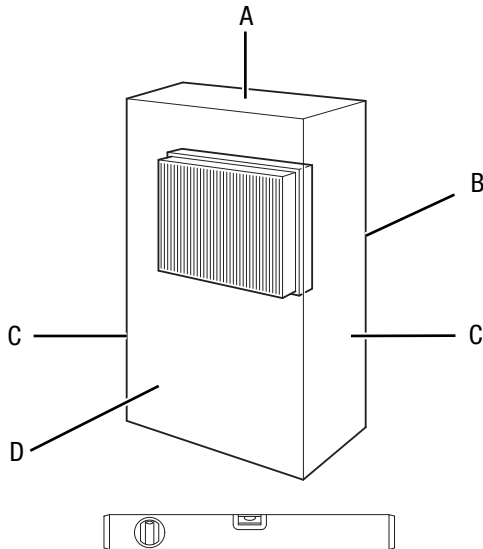
**Operation**

- After being switched on, the device operates fully automatically until the condensation tank is full and the device switches itself off (switch-off only with TTK 140 S, TTK 170 S and TTK 350 S).
- Avoid open doors and windows.

**Positioning**

When positioning the device, observe the minimum distance from walls or other objects as described in chapter Technical Data.

- Set the device up in a level and stable position.
- When positioning the device, keep a sufficient distance to heat sources.
- When positioning the device, particularly in wet areas, secure it locally with an RCD (residual current device) which complies with the respective regulations.



- Make sure that extension cables are completely unrolled.

**Notes regarding the dehumidification performance**

The dehumidification performance depends on:

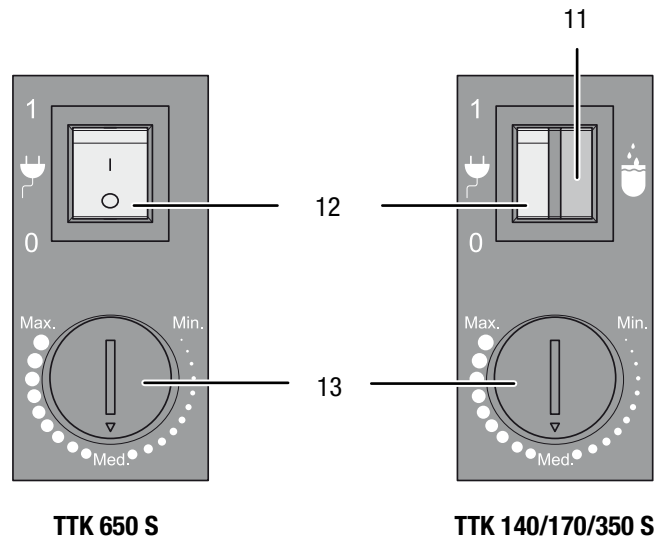
- the layout of the room
- the room temperature
- the relative humidity

The higher the room temperature and relative humidity, the greater the dehumidification performance.

For use in living rooms, a relative humidity of approx. 50 to 60 % is sufficient. In storage facilities and archives, the humidity should not exceed approx. 50 %.

**Operating elements**

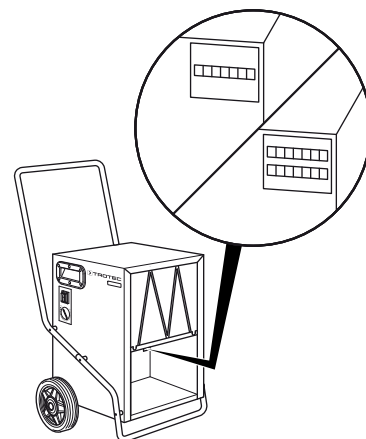
**Control panel**



No.	Designation
11	Condensation tank indicator light (TTK 140 S, TTK 170 S and TTK 350 S only)
12	Mains switch; Illuminated when the device is switched on.
13	Rotary switch

**Operating hours/ power consumption counter**

The device is optionally also available with a simple operating hours counter or with a combined operating hours and power consumption counter (see fig.). Contact your Trotec customer service.

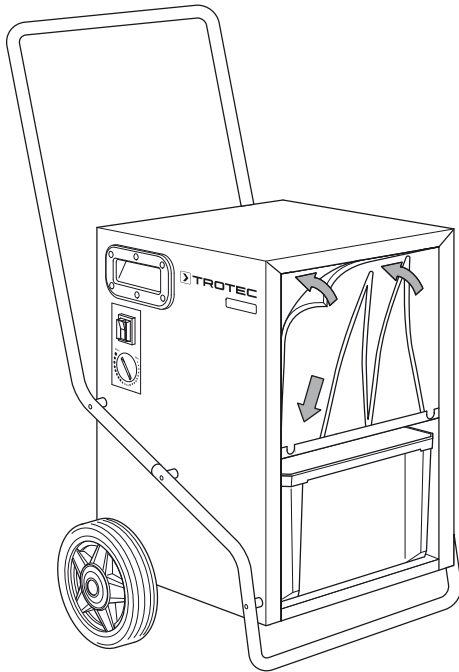




## Start-up

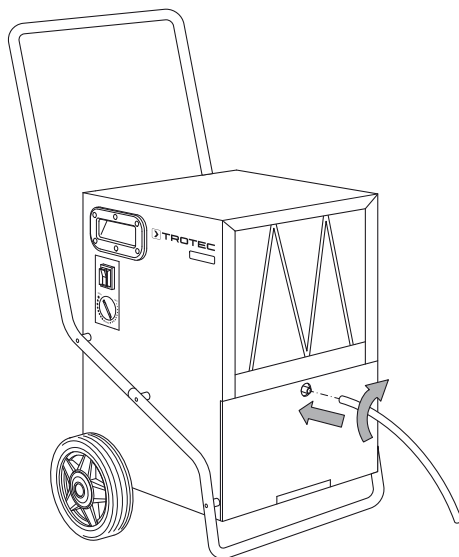
### Inserting the air filter

Make sure that the air filter is installed before switching the device on.

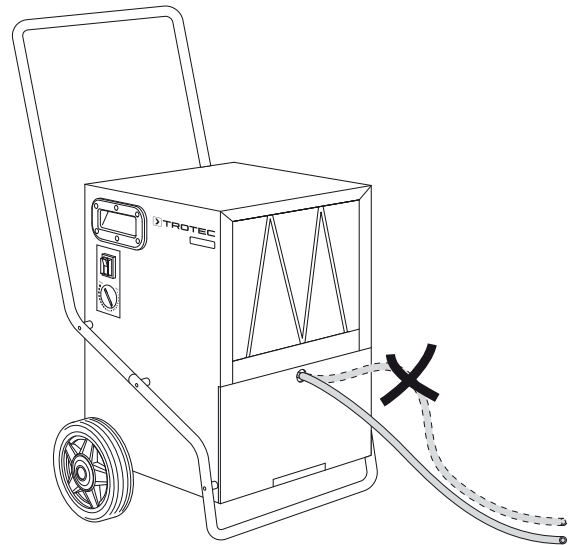


### Connecting the condensation drain hose (TTK 650 S)

1.



2.



### Switching the device on

1. Carry out the following inspections prior to switch-on:
  - ⇒ **The following only applies to TTK 140 S, TTK 170 S and TTK 350 S:**  
Ensure that the condensation tank is empty and inserted correctly. Otherwise, the device will not operate!
  - ⇒ **The following only applies to the TTK 650 S:**  
Ensure that the condensation drain hose has been laid and mounted properly.
2. Insert the mains plug into a properly secured mains socket.
3. Switch on the device at the mains switch (12).
4. Ensure that the mains switch (12) is illuminated.
5. **The following only applies to TTK 140 S, TTK 170 S and TTK 350 S:**  
Check whether the condensation tank indicator light (11) is out. Otherwise, empty the condensation tank.
6. Adjust the room humidity level with the rotary switch (13).

### Continuous operation mode

In continuous operation mode, the device dehumidifies the air constantly, regardless of the humidity. To start continuous operation mode, set the rotary switch (13) to **Max**.

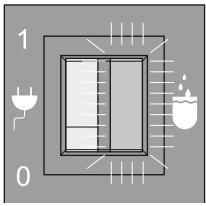
### Automatic defrost

If the room temperature is below 11 °C, the evaporator will freeze during dehumidification. The device will then carry out an automatic defrost. The duration of the defrost process can vary.

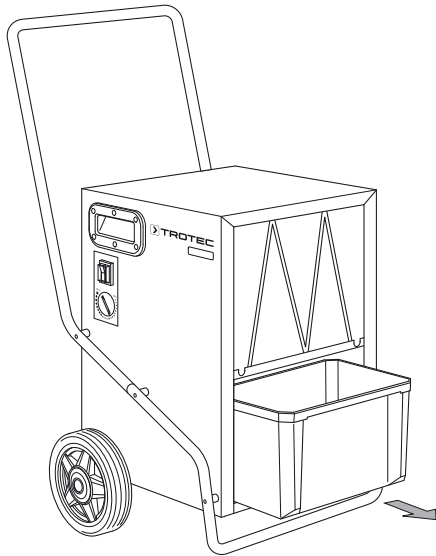
- Do not switch off the device during automatic defrost. Do not remove the mains plug from the mains socket.

**Emptying the condensation tank  
(TTK 140 S / TTK 170 S / TTK 350 S)**

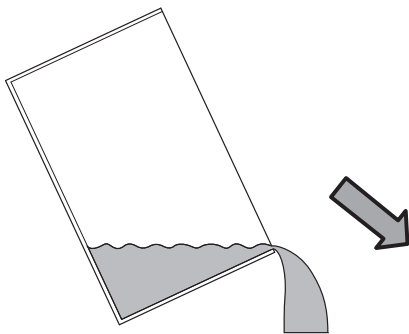
1.



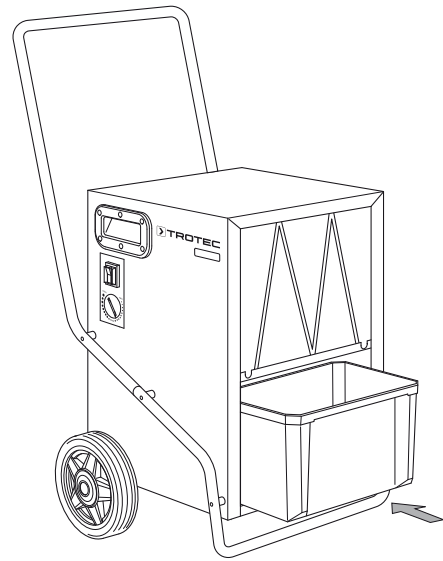
2.



3.

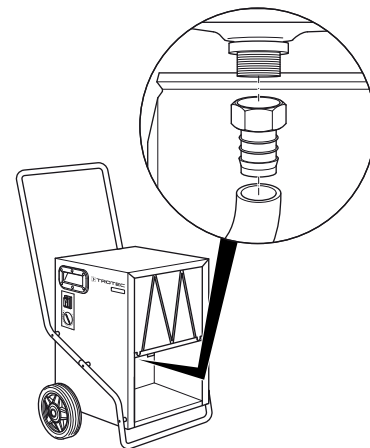


4.

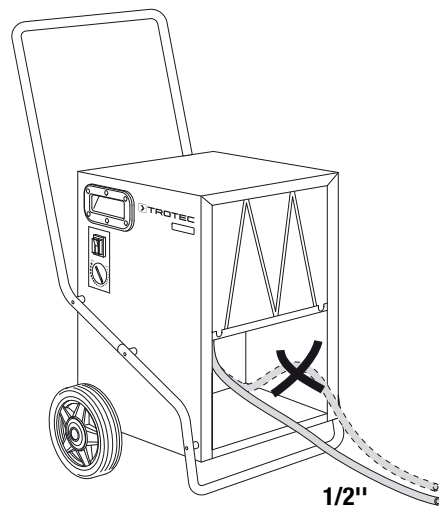


**Operation with hose attached to the condensation connection  
(TTK 140 S / TTK 170 S / TTK 350 S)**

1.



2.



## Shutdown

1. Switch off the device at the mains switch (see chapter Operating elements).
2. Depending on the model, proceed as follows to remove condensation from the device:
  - ⇒ Empty the condensation tank and wipe it dry with a clean cloth. Check for dripping condensation.
  - ⇒ Remove the condensation drain hose and any residual fluid from it.
3. Do not touch the mains plug with wet or damp hands.
4. Remove the mains plug from the mains socket.
5. Clean the device, and especially the air filter, according to the chapter Maintenance.
6. Store the device according to the chapter Storage.

## Errors and faults

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

### The device does not start:

- Check the power connection (1/N/PE ~ 230V/ 50 Hz).
- Check the mains plug for damages.
- Have the electrics checked by a specialist company for cooling and air-conditioning or by Trotec.

### The device is running, but no condensate forms:

- Check the condensation tank for correct seating. Check the filling level of the condensation tank and empty it, if necessary. The condensation tank indicator light must not light up.
- Check the condensation tank is not dirty. If necessary, clean the condensation tank.
- Check the room temperature. Observe the device's permissible operating range according to the technical data.
- Ensure that the relative humidity complies with the technical data.
- Check the selected desired humidity level. The humidity in the room must be above the selected range. Reduce the selected relative humidity by turning the rotary switch, if necessary.
- Check the air filter for dirt. If necessary, clean or replace the air filter.
- From the outside, check the condenser for dirt (see chapter Maintenance). If your condenser is dirty, have it cleaned by a specialist company for cooling and air-conditioning or by Trotec.

### The device is loud or vibrates; condensate is leaking:

- Check whether the device is standing upright and on an even surface.

### The device gets very warm, is loud or loses power:

- Check the air inlets and air filter for dirt. Remove external dirt.
- From the outside, check the device for dirt (see chapter Maintenance). If the inside of the device is dirty, have it cleaned by a specialist company or by Trotec.

### Your device still does not operate correctly after these checks?

Have the device repaired by authorised expert staff or by Trotec.

## Maintenance

## Maintenance intervals

Maintenance and care interval	before every start-up	as needed	at least every 2 weeks	at least every 4 weeks	at least every 6 months	at least annually
Empty the condensate pump, condensation tray and/or condenser dryer		X				
Check the air inlets and outlets for dirt and foreign objects and clean if necessary	X			X		
Clean the exterior		X				X
Visually check the inside of the device for dirt		X				X
Check the air inlet grid and air filter for dirt and foreign objects and clean or replace if necessary	X		X			
Replace air filter					X	
Check for damage	X					
Check the attachment screws		X				X
Test run						X

## Maintenance and care log

Device type: .....

Device number: .....

Maintenance and care interval	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Check the air inlets and outlets for dirt and foreign objects and clean if necessary																
Check the condensate pump and tank and clean if necessary																
Clean the exterior																
Visually check the inside of the device for dirt																
Check the air inlet grid and air filter for dirt and foreign objects and clean or replace if necessary																
Replace air filter																
Check for damage																
Check the attachment screws																
Test run																
Remarks:																

1. Date: ..... Signature: .....	2. Date: ..... Signature: .....	3. Date: ..... Signature: .....	4. Date: ..... Signature: .....
5. Date: ..... Signature: .....	6. Date: ..... Signature: .....	7. Date: ..... Signature: .....	8. Date: ..... Signature: .....
9. Date: ..... Signature: .....	10. Date: ..... Signature: .....	11. Date: ..... Signature: .....	12. Date: ..... Signature: .....
13. Date: ..... Signature: .....	14. Date: ..... Signature: .....	15. Date: ..... Signature: .....	16. Date: ..... Signature: .....

### Activities required before starting maintenance

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



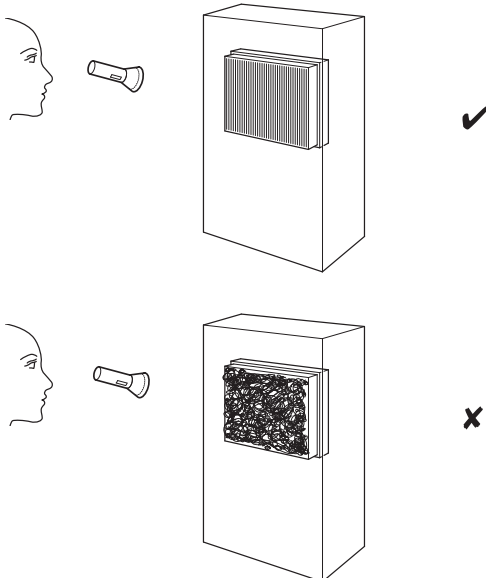
#### Danger!



Maintenance tasks which require the housing to be opened must only be carried out by authorised specialist companies or by Trotec.

### Visual inspection of the inside of the device for dirt

1. Remove the air filter.
2. Use a torch to illuminate the openings of the device.
3. If you see a thick layer of dust, have the inside of the device cleaned by a specialist company for cooling and air-conditioning or by Trotec.
4. Put the air filter back in.



### Cleaning the air filter

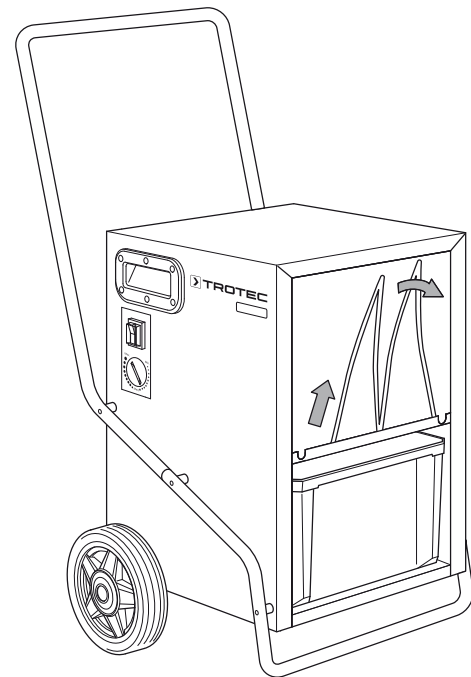
The air filter has to be cleaned as soon as it is dirty. This is brought to light e.g. by a reduced capacity (see chapter Errors and faults).



#### Caution!

Ensure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry!

- 1.



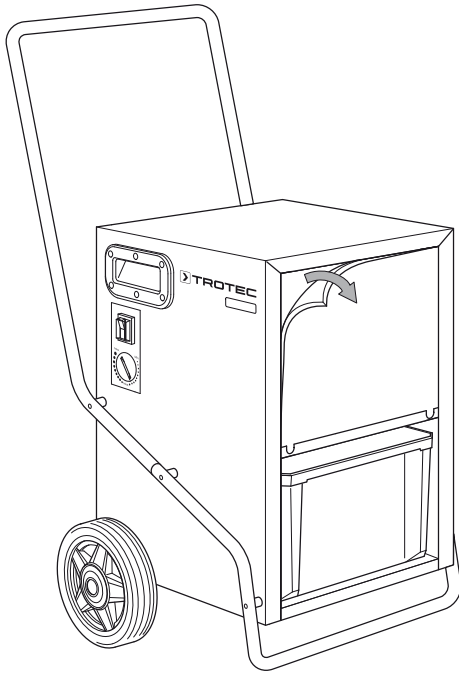
### Cleaning the housing

Clean the device with a soft, damp and lint-free cloth. Ensure that no moisture enters the housing. Do not use abrasive cleaners.

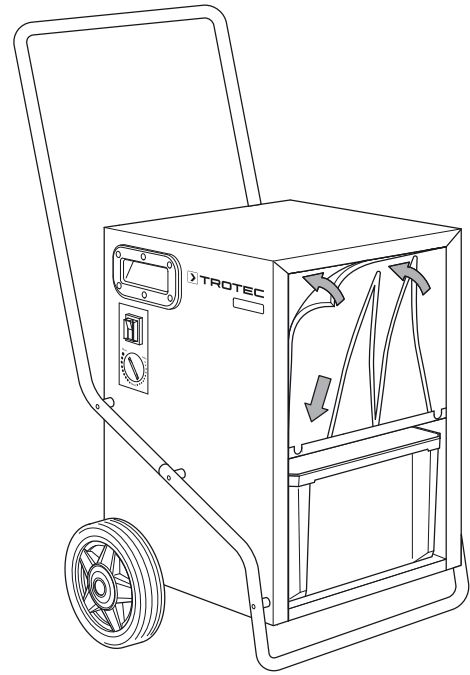
### Refrigerant circuit

- The entire refrigerant circuit is a maintenance-free, hermetically sealed system and may only be maintained or repaired by specialist companies for cooling and air-conditioning or by Trotec.

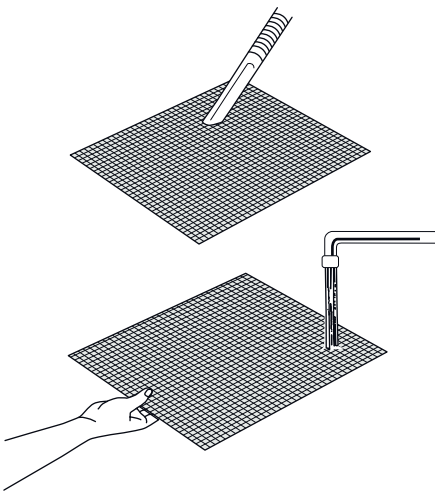
2.



4. Reinsert the cleaned, dry filter in the device in reverse order.



3.



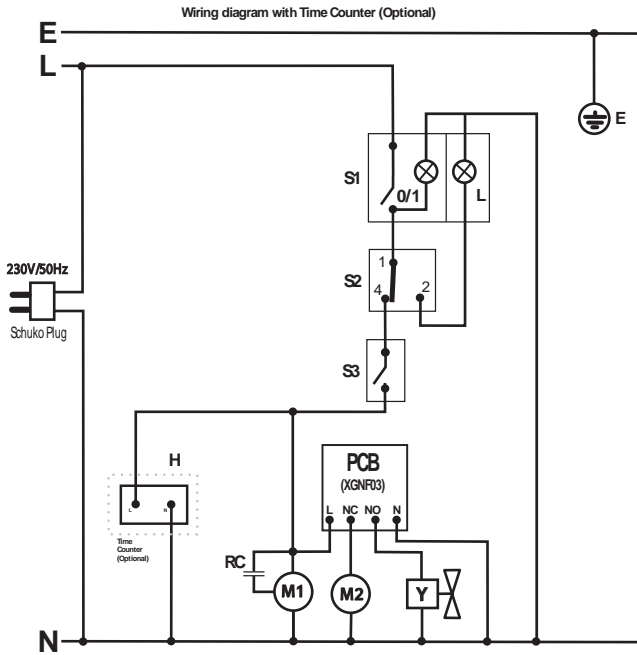
**Technical annex**
**Technical data**

Parameter	Value			
	TTK 140 S	TTK 170 S	TTK 350 S	TTK 650 S
Dehumidification performance @ 30 °C / 80 % RH	35 l / 24 h	40 l / 24 h	55 l / 24 h	125 l / 24 h
Dehumidification performance, max.	40 l / 24 h	50 l / 24 h	70 l / 24 h	150 l / 24 h
Operating temperature	5 °C - 32 °C	5 °C - 32 °C	5 °C - 32 °C	5 °C - 32 °C
Operating range for relative humidity	32% - 100% RH	32% - 100% RH	32% - 100% RH	32% - 100% RH
Air volume flow	580 m <sup>3</sup> /h	300 m <sup>3</sup> /h	1000 m <sup>3</sup> /h	1000 m <sup>3</sup> /h
Mains connection	1/N/PE~ 230 V, 50 Hz	1/N/PE~ 230 V, 50 Hz	1/N/PE~ 230 V, 50 Hz	1/N/PE~ 230 V, 50 Hz
Power consumption, max.	0.7 kW	0.88 kW	1.27 kW	1.66 kW
Nominal current	3.2 A	4.0 A	5.8 A	7.8 A
Water tank capacity	6 l *)	6 l *)	6 l *)	-
Refrigerant	R-407C	R-410 A	R-410a	R-407C
Amount of refrigerant	475 g	510 g	650 g	1300 g
Weight	29 kg	32 kg	39 kg	52 kg
Dimensions without handle (HxDxW)	605 x 400 x 400 mm	635 x 400 x 520 mm	745 x 415 x 520 mm	810 x 415 x 980 mm
Dimensions with handle (HxDxW)	-	965 x 560 x 520 mm	965 x 575 x 520 mm	1020 x 530 x 980 mm
Minimum distance to walls or other objects	A: Top: 50 cm B: Rear: 50 cm C: Side: 50 cm D: Front: 50 cm	A: Top: 50 cm B: Rear: 50 cm C: Side: 50 cm D: Front: 50 cm	A: Top: 50 cm B: Rear: 50 cm C: Side: 50 cm D: Front: 50 cm	A: Top: 50 cm B: Rear: 50 cm C: Side: 50 cm D: Front: 50 cm
Sound pressure level LpA (1 m; complies with DIN 45635-01-KL3)	52 dB(A)	52 dB(A)	54 dB(A)	56 dB(A)

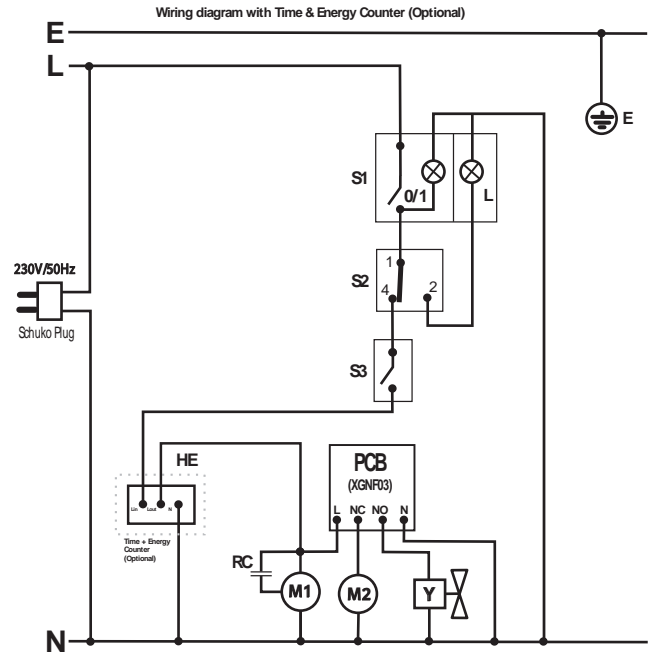
\*) switch-off value for condensation tank filling level

**Wiring diagram**

**TTK 140 S / TTK 170 S / TTK 350 S**



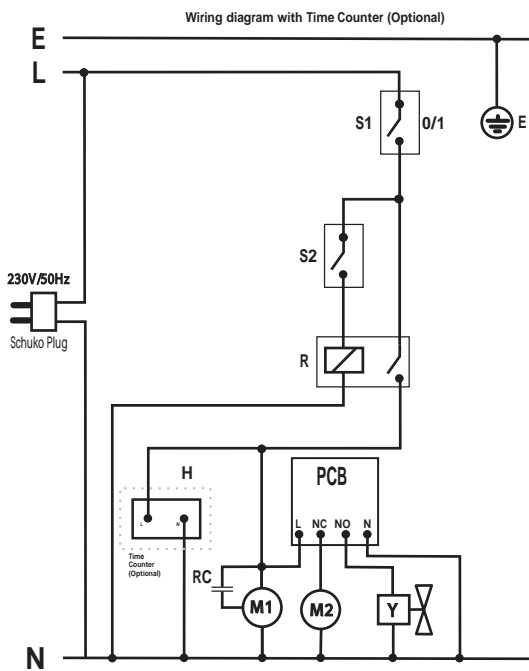
- E - Earthing / Erdung
- N - Common Line / Gemeinsame
- L - Line / Außenleiter
- S1 - On-O Switch & Red Lamp (Tank full)  
Geräteschalter 0/1 & Signalleuchte "rot" (Behälter voll)
- S2 - Micro Switch (Tank Full) / Mikroschalter Wippe Vo Istald (Behälter voll)
- S3 - Humidistat / Hygrostat
- M1 - Compressor / Kompressor
- M2 - Fan motor / Lüftermotor
- Y - Two Way Valve / Abtau-Magnetventil
- RC - Running Capacitor (170/350) Motorbetriebskondensator (170/350)
- H - Time Counter (Optional) / Zeit Zähler (Z. zusätzliche)



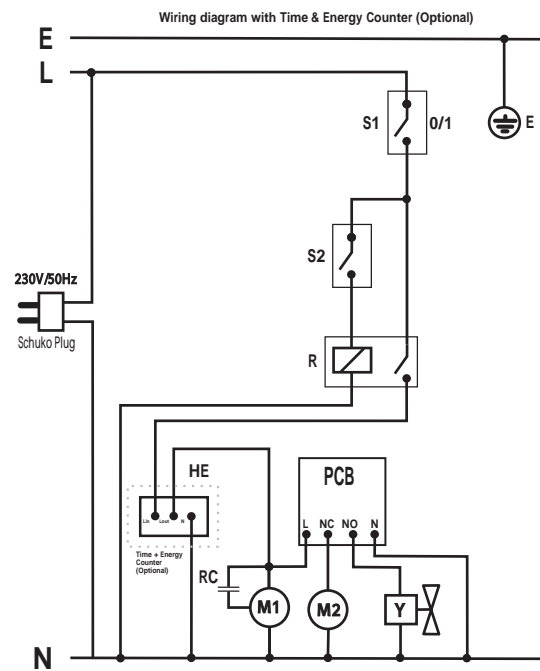
- E - Earthing / Erdung
- N - Common Line / Gemeinsame
- L - Line / Außenleiter
- S1 - On-O Switch & Red Lamp (Tank full)  
Geräteschalter 0/1 & Signalleuchte "rot" (Behälter voll)
- S2 - Micro Switch (Tank Full) / Mikroschalter Wippe Vo Istald (Behälter voll)
- S3 - Humidistat / Hygrostat
- M1 - Compressor / Kompressor
- M2 - Fan motor / Lüftermotor
- Y - Two Way Valve / Abtau-Magnetventil
- RC - Running Capacitor (170/350) Motorbetriebskondensator (170/350)
- HE - Time + Energy Counter (Optional) / Zeit + Energie Zähler (Zusätzliche)



# TTK 650 S



- E - Earthing / Erdung
- L - Line / Außenleiter
- N - Common Line / Gemeinsame
- S1 - On-O switch / Geräteschalter 0/1
- S2 - Humidistat / Hygrostat
- M1 - Compressor / Kompressor
- M2 - Fan motor / Lüftermotor
- Y - Two way valve / Abtau-Magnetventil
- R - Power Relay / Leistungsrelais
- RC - Running Capacitor (170/350) Motorbetriebskondensator (170/350)
- H - Time counter (Optional) / Zeit Zähler (Zusätzliche)

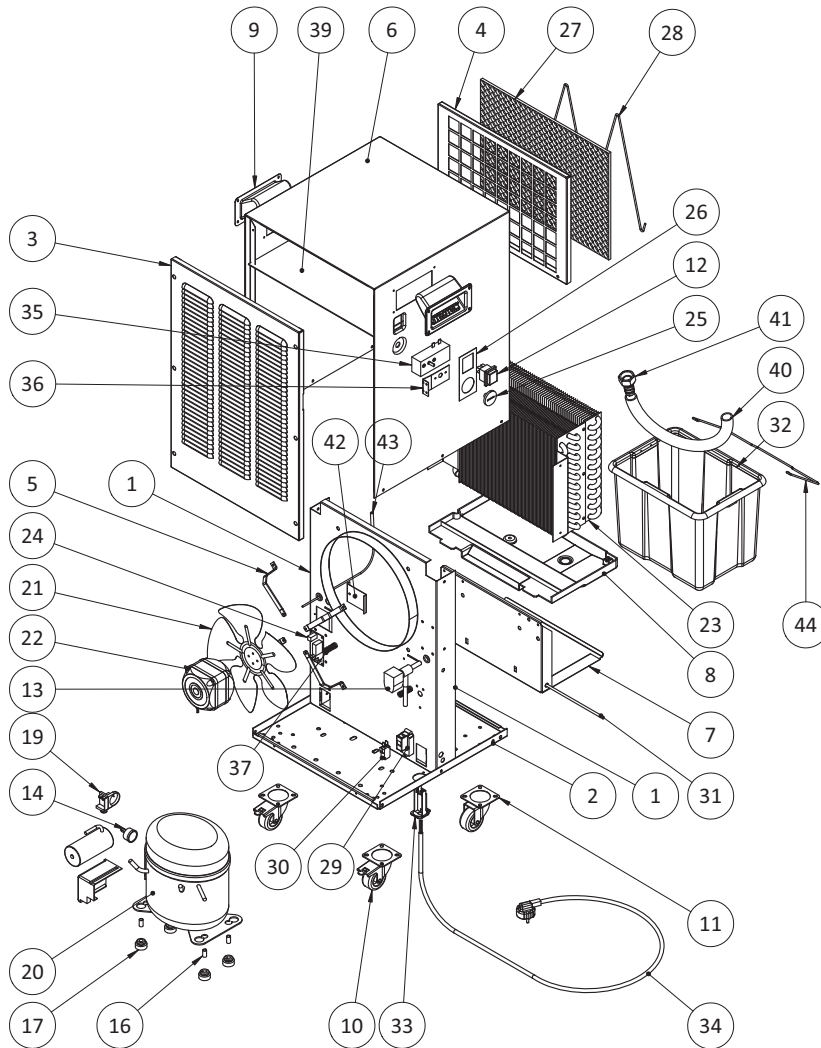


- E - Earthing / Erdung
- L - Line / Außenleiter
- N - Common Line / Gemeinsame
- S1 - On-O switch / Geräteschalter 0/1
- S2 - Humidistat / Hygrostat
- M1 - Compressor / Kompressor
- M2 - Fan motor / Lüftermotor
- Y - Two way valve / Abtau-Magnetventil
- R - Power Relay / Leistungsrelais
- RC - Running Capacitor (170/350) Motorbetriebskondensator (170/350)
- HE - Time & Energy Counter (Optional) Zeit & Energie Zähler (Zusätzliche)

**Overview of spare parts and spare parts list TTK 140 S**

**Note!**

The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.

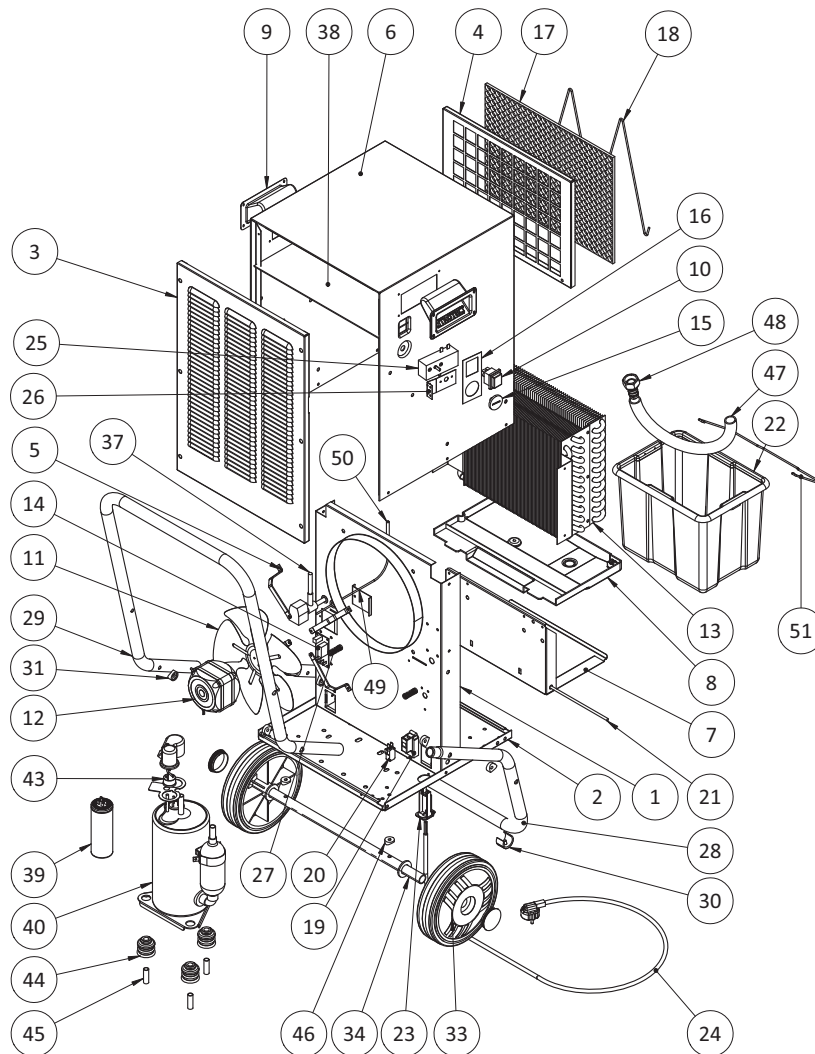


No.	Spare part	No.	Spare part	No.	Spare part
1	structural element for Ø 250 fan	16	compressor's metallic bushing	31	tank base plate shaft
2	baseplate	17	compressor's rubber grommet	32	5 1/4 l PP water tank
3	air outlet ventilation grid	19	compressor's relay	33	cable gland and electric terminal block
4	air inlet ventilation grid	20	r407c compressor	34	supply cable
5	motor fan brackets	21	Ø 254 aluminium sucking fan blade	35	mechanical hygrostat
6	PVC hood	22	16 W output electric motor fan	36	hygrostat support
7	water tank base plate	23	finned pack condensing & evaporating coil	37	full tank helical springs
8	condensates' water pan	24	electronic printed circuit board	39	top hood thermic isolating adhesive foam
9	grip	25	ABS hygrostat adjusting knob	40	3/8" water hose, 0.45 m length
10	spinning castor with brake	26	control panel sticker	41	threaded hose connector for 3/4" hose
11	loose spinning castor	27	air filter	42	hour counter gap cover
12	combined power switch, tank full warning lamp, silicon cover	28	filter support	43	defrosting system temperature probe
13	defrosting system solenoid valve	29	ABS full tank micro switch protection case	44	water tank's bail handle
14	compressor's overload protection	30	full tank micro switch		

## Overview of spare parts and spare parts list TTK 170 S

### Note!

The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.

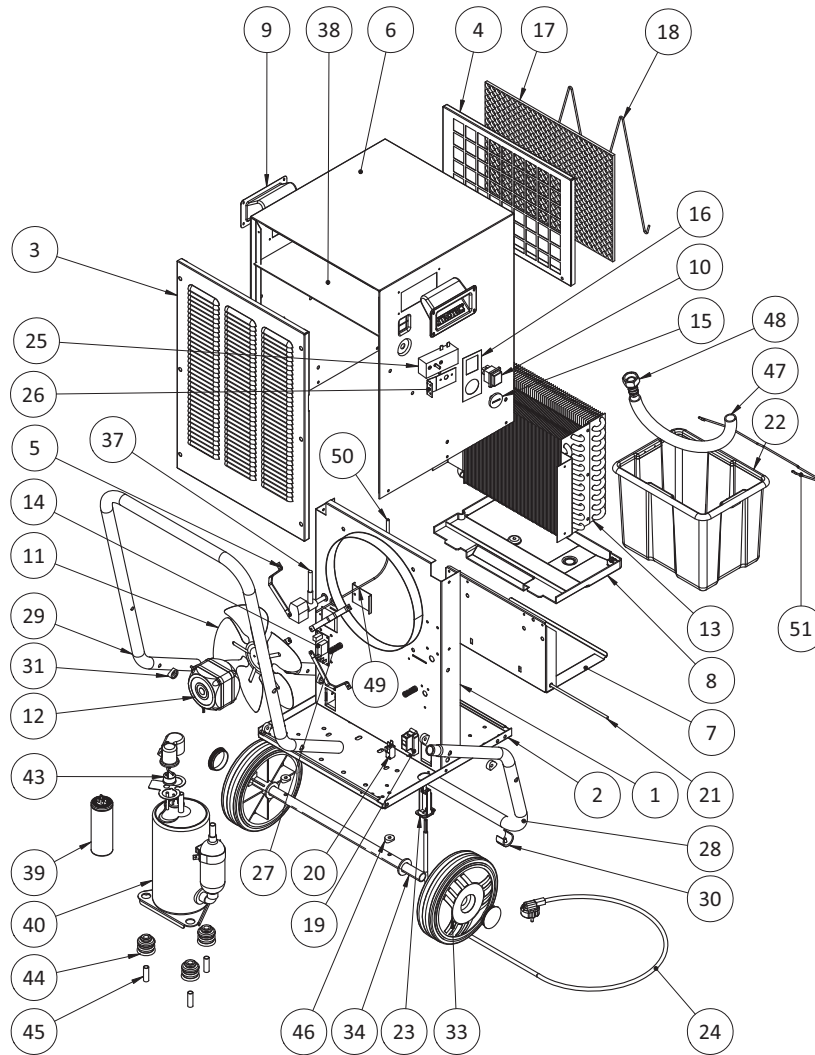


No.	Spare part	No.	Spare part	No.	Spare part
1	structural element for Ø 250 fan	17	air filter	37	defrosting system solenoid valve
2	baseplate	18	filter support	38	top hood thermic isolating adhesive foam
3	air outlet ventilation grid	19	full tank micro switch protection case	39	35 µF running capacitor
4	air inlet ventilation grid	20	full tank micro switch	40	r407c compressor
5	motor fan brackets	21	tank base plate shaft	43	compressor's overload protection
6	PVC hood	22	5 1/4 l PP water tank	44	compressor's rubber grommet
7	water tank base plate	23	cable gland and electric terminal block	45	compressor's metallic bushing
8	condensates' water pan	24	supply cable	46	PA 3 mm saddle spacer for wheels' shaft
9	grip	25	mechanical hygrostat	47	3/8" water hose, 0.45 m length
10	combined power switch, tank full warning lamp, silicon cover	26	hygrostat support	47	Ø 250 wheel
11	Ø 254 aluminium sucking fan blade	27	full tank helical springs	48	threaded hose connector for 3/4" hose
12	16 W output electric motor fan	28	tubular foot	49	hour counter gap cover
13	finned pack condensing & evaporating coil	29	tubular handle	50	defrosting system temperature probe
14	electronic printed circuit board	30	clamping plastic saddle foot	51	water tank's bail handle
15	ABS hygrostat adjusting knob	31	PA 6 mm saddle spacer for tubular handle		
16	control panel sticker	34	Ø 20 wheel shaft		

**Overview of spare parts and spare parts list TTK 350 S**

**Note!**

The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.

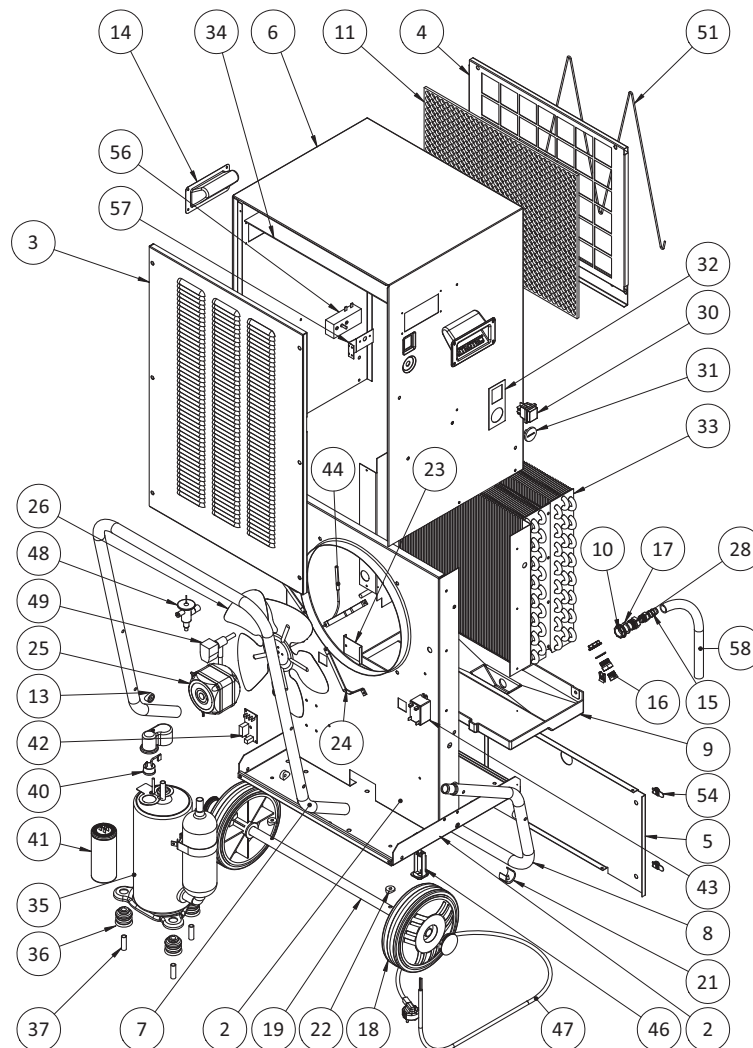


No.	Spare part	No.	Spare part	No.	Spare part
1	structural element for Ø 300 fan	17	air filter	37	defrosting system solenoid valve
2	baseplate	18	filter support	38	top hood thermic isolating adhesive foam
3	air outlet ventilation grid	19	full tank micro switch protection case	39	35 µF running capacitor
4	air inlet ventilation grid	20	full tank micro switch	40	r407c compressor
5	motor fan brackets	21	tank base plate shaft	43	compressor's overload protection
6	PVC hood	22	5 1/4 l PP water tank	44	compressor's rubber grommet
7	water tank base plate	23	cable gland and electric terminal block	45	compressor's metallic bushing
8	condensates' water pan	24	supply cable	46	PA 3 mm saddle spacer for wheels' shaft
9	grip	25	mechanical hygrostat	47	3/8" water hose, 0.45 m length
10	combined power switch, tank full warning lamp, silicon cover	26	hygrostat support	47	Ø 250 wheel
11	Ø 300 aluminium sucking fan blade	27	full tank helical springs	48	threaded hose connector for 3/4" hose
12	25 W output electric motor fan	28	tubular foot	49	hour counter gap cover
13	finned pack condensing & evaporating coil	29	tubular handle	50	defrosting system temperature probe
14	electronic printed circuit board	30	clamping plastic saddle foot	51	water tank's bail handle
15	ABS hygrostat adjusting knob	31	PA 6 mm saddle spacer for tubular handle		
16	control panel sticker	34	Ø 20 wheel shaft		

## Overview of spare parts and spare parts list TTK 650 S

### Note!

The position numbers of the spare parts differ from those describing the positions of other parts mentioned in this operating manual.



No.	Spare part	No.	Spare part	No.	Spare part
1	baseplate	18	Ø250 wheel	37	compressor's rubber grommet
2	structural element for Ø300 fan	19	Ø20 wheel shaft	40	compressor overload protector
3	air outlet ventilation grid	21	plastic feet for handle	41	50µF running capacitor
4	air inlet ventilation grid	22	PA shaft 3mm spacer	42	electronic printed circuit board
5	back panel	23	hour counter gap cover	43	power relay
6	Pre-coated PVC hood	24	motor fan brackets	44	defrosting system temperature probe
7	tubular handle	25	25 W output electric motor fan	46	cable gland and electric terminal block
8	tubular foot	26	Ø 300 aluminium sucking fan blade	47	supply cable
9	threaded condensates' water pan	28	1/2" to 3/8" reduction pipe bushing	48	thermostatic expansion valve
10	PA 1/2" nut	30	power switch, transparent silicon cover	49	defrosting system solenoid valve
11	air filter	31	ABS hygrostat adjusting knob	51	filter support
13	PA 6 mm saddle spacer	32	control panel sticker	54	turn lock
14	grip	33	finned pack condensing. evaporating coil	56	mechanical hygrostat
15	threaded hose connector	34	top hood thermic isolating adhesive foam	57	hygrostat support
16	3/8" hexagonal threaded plug	35	r407c compressor	58	9/16" water hose, 0.45 m length
17	2x18x25 rubber washer	36	compressor's metallic bushing		

## 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 of the Council of 27 January 2003 on waste electrical and electronic equipment (WEEE). At the end of its life, please dispose of this device according to the valid legal requirements.

The device uses an environmentally and ozone-neutral cooling agent (see Technical Data).

Dispose of the refrigerant appropriately and according to the national regulations.

## 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 device TTK 140 S / TTK 170 S / TTK 350 S / TTK 650 S was developed, constructed and produced in compliance with the named EC directives.

Applied standards:

IEC 60335-1:2001/A2:2006

IEC 60335-2-40:2002/A1:2005

IEC 62233:2005

The **CE** marking is found on the rear of the device.

Manufacturer:

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Heinsberg, 07.02.2014

Detlef von der Lieck

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