

EN

ORIGINAL INSTRUCTIONS
DEHUMIDIFIER



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Notes regarding the instructions

Symbols



Danger

This symbol indicates dangers to the life and health of persons due to extremely flammable gas.



Warning of electrical voltage

This symbol indicates dangers to the life and health of persons due to electrical voltage.



Warning

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



Caution

This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

Note

This signal word indicates important information (e.g. material damage), but does not indicate hazards.



Info

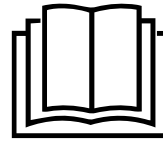
Information marked with this symbol helps you to carry out your tasks quickly and safely.



Follow the manual

Information marked with this symbol indicates that the instructions must be observed.

You can download the current version of these instructions via the following link:



TTK 125 S



<https://hub.trotec.com/?id=39716>

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use.



Warning

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

- In the scope of European normative requirements (EN 60335-1):
This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- In the scope of International normative requirements (IEC 60335-1):
This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in aggressive atmosphere.
- Only put up the device in an upright, stable position on firm ground.
- Let the device dry out after a wet clean. Do not operate it when wet.

- Do not use the device with wet or damp hands.
- Do not expose the device to directly squirting water.
- Do not cover the device during operation.
- Do not sit on the device.
- This appliance is not a toy. Keep away from children and animals.
- Occasionally observe the device during operation.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.
- Ensure that all electric cables outside of the device are protected from damage (e.g. caused by animals). Never use the device if electric cables or the power connection are damaged!
- The mains connection must correspond to the specifications in the Technical annex.
- Insert the mains plug into a properly fused mains socket.
- Observe the device's power input, cable length and intended use when selecting extensions to the power cable. Completely unroll extension cables. Avoid electrical overload.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable. If the power cable is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. Defective power cables pose a serious health risk!
- Before carrying out maintenance, care or repair work on the device, remove the mains plug from the mains socket. Hold onto the mains plug while doing so.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- When positioning the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the Technical annex.
- Make sure that the air inlet and outlet are not obstructed.
- Make sure that the suction side is kept free of dirt and loose objects.
- Never insert any objects or limbs into the device.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Only transport the device in an upright position with an emptied condensation tank or drain hose.
- Discharge the collected condensate before transport and storage. Do not drink it. Health hazard!

- Only use original spare parts, for otherwise safe and functional operation cannot be ensured.



Safety warnings for devices containing flammable refrigerants

- Only position the device in rooms where potentially leaking refrigerant cannot accumulate. Unventilated rooms, in which the device is installed, operated or stored, must be built in a way to ensure that potentially leaking refrigerant cannot accumulate. This serves to avoid fire or explosion hazards resulting from an ignition of the refrigerant by an electric furnace, cooking stove or another ignition source.
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Please note that the refrigerant is odourless.
- Only install the device in compliance with the national installation regulations.
- Please observe the local regulations.
- Observe the national gas regulations.
- Only install, operate and store the device TTK 125 S in a room measuring more than 4 m².
- Store the device in a way that no mechanical damage can occur.
- Please note that the connected pipelines must not contain any sources of ignition.
- R290 is a refrigerant that complies with European environmental regulations. No part of the cooling circuit may be perforated.
- Observe the maximum refrigerant capacity in the technical data.
- Do not drill through or burn.
- Do not use any means other than those recommended by the manufacturer for accelerating the defrosting process.
- Every person working with or at the refrigerant circuit must be able to provide a certificate of qualification issued by a body accredited by the industry, demonstrating their competence in the safe use of refrigerants based on a procedure well-known in the industry.
- Service work may only be carried out in accordance with the manufacturer's specifications. If maintenance and repair work require the support of additional persons, the person trained in handling flammable refrigerants shall continuously supervise the work carried out.
- 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.

Intended use

Only use the device for drying and dehumidifying room air, while adhering to and following the technical data.

Intended use comprises:

- dehumidifying and drying:
 - living rooms, bedrooms and basements
 - holiday homes, camper vans
- maintaining the dryness of:
 - storage spaces, archives, laboratories, garages
 - changing rooms etc.

Foreseeable misuse

- Do not place the device on wet or flooded ground.
- Do not place any objects, e.g. clothing, on the device.
- Do not use the device out of doors.
- This device must not be used in wet rooms (e.g. laundry rooms).
- Never immerse the device in water.
- Do not make any unauthorised modifications, alterations or structural changes to the device.
- Any use other than the intended use is regarded as a reasonably foreseeable misuse.

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 instructions, especially the Safety chapter.

Maintenance tasks which require the housing to be opened must only be carried out by specialist companies for cooling and air-conditioning or by Trotec.

Safety signs and labels on the device

Note

Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.



The following safety signs and labels are attached to the device:

WARNING • WARNUNG • ATTENTION

DE Das Gerät muss in einem Raum mit einer Grundfläche größer als 4 m² aufgestellt, betrieben und gelagert werden.

EN Appliance shall be installed, operated and stored in a room with floor area larger than 4 m².

FR L'appareil doit être installé, utilisé et entreposé dans une pièce avec une surface supérieure à 4 m².



Follow the manual

This symbol indicates that the operating manual must be observed.



Follow the repair manual

Disposal, maintenance and repair work of the refrigerant circuit may only be carried out in accordance with the manufacturer's specifications and by persons having a certificate of qualification. A corresponding repair manual is available from the manufacturer upon request.

The following note is attached to the device in German and English.

ATTENTION:

The device will only start after 3-5 minutes.

Residual risks



Danger

Natural refrigerant propane (R290)!

H220 – Extremely flammable gas.

H280 – Contains gas under pressure; may explode if heated.

P210 – Keep away from heat, sparks, open flames and other ignition sources. No smoking.

P377 – Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P410+P403 – Protect from sunlight. Store in a well-ventilated place.



Warning of electrical voltage

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



Warning of electrical voltage

Risk of electric shock!

The device does not have the appropriate protection class for use in wet rooms.

There is a risk of electric shock!

Never use the device in wet rooms (e.g. in laundry rooms) and never immerse the device in water!



Warning of electrical voltage

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

Do not touch the mains plug with wet or damp hands.

Hold onto the mains plug while pulling the power cable out of the mains socket.



Warning

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



Warning

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



Warning

Risk of suffocation!

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

Note

Do not operate the device without an air filter inserted into the air inlet!

Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

Note

When operated with condensation tank, make sure that the condensation tank is inserted correctly!

If the condensation tank is removed or not installed correctly, the device does **not** switch off.

Behaviour in the event of an emergency

1. Switch the device off.
2. Disconnect the device from the mains feed-in: Hold onto the mains plug while pulling the power cable out of the mains socket.
3. Do not reconnect a defective device to the mains.

Information about the device

Device description

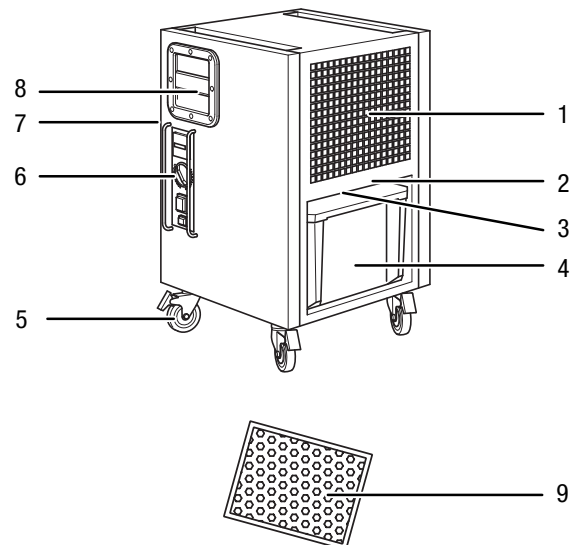
The device uses the principle of condensation to automatically dehumidify rooms.

The fan sucks damp room air through the air inlet, the air filter, 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 condensation or rime. The dehumidified, cooled air is slightly warmed at the condenser and blown out again. 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 phase through the integrated drain nozzle into the condensation tank below. It is fitted with a float to measure the filling level.

Optionally, the condensed water can be drained by attaching a hose at the condensation connection.

Device depiction



No.	Designation
1	Air inlet
2	Connection for optional condensate pump
3	Hose connector for condensation drain hose
4	Condensation tank
5	Wheels
6	Control panel
7	Air outlet
8	Carrying handle
9	Air filter

Transport and storage

Note

If you store or transport the device improperly, the device may be damaged.

Note the information regarding transport and storage of the device.

Transport

Please note that additional transport regulations might apply to devices containing flammable refrigerants. The equipment's arrangement and the maximum number of components to be transported together can be gathered from the applicable transport regulations.

To make the device easier to transport, it is fitted with wheels.

Before transporting the device, observe the following:

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Drain the remaining condensate from the device and the condensation drain hose (see chapter Maintenance).
- Do not use the power cable to drag the device.
- Only wheel the device on firm and level surfaces.

After transporting the device, proceed as follows:

- Set up the device in an upright position after transport.

Storage

Before storing the device, proceed as follows:

- Drain the remaining condensate from the device and the condensation drain hose (see chapter Maintenance).
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Drain any possibly remaining condensate.

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

- Only store the device in a room measuring more than 4 m².
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Store the device in a dry location and protected from frost and heat.
- Store the device in an upright position where it is protected from dust and direct sunlight.
- If required, use a cover to protect the device from invasive dust.
- Place no further devices or objects on top of the device to prevent it from being damaged.

Assembly and start-up

Scope of delivery

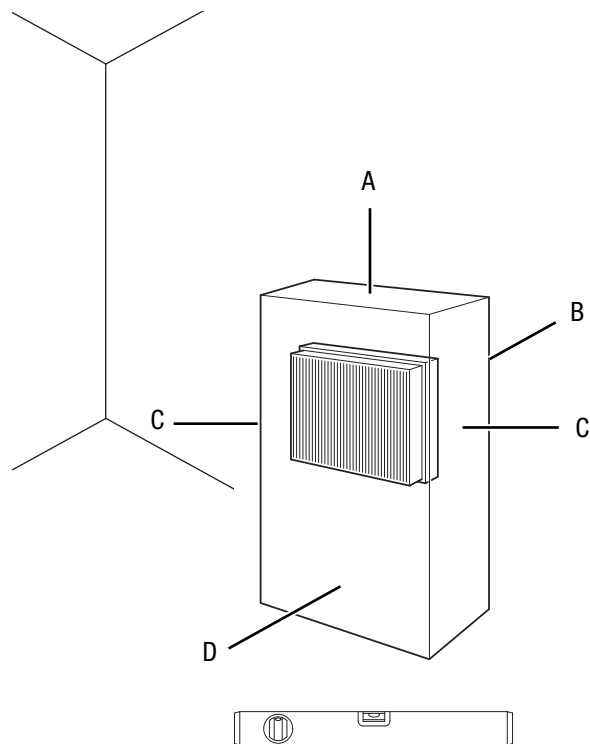
- 1 x device
- 1 x air filter
- 1 x Manual

Unpacking the device

1. Open the cardboard box and take the device out.
2. Completely remove the packaging.
3. Fully unwind the power cable. Make sure that the power cable is not damaged and that you do not damage it during unwinding.

Start-up

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



- Before restarting the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Only position the device in rooms where potentially leaking refrigerant cannot accumulate.
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Only put up the device in an upright, stable position on firm ground.

- Do not create tripping hazards when laying the power cable or other electric cables, especially when positioning the device in the middle of the room. Use cable bridges.
- Make sure that extension cables are completely unrolled.
- When positioning the device, keep a sufficient distance to heat sources.
- Make sure that no curtains or other objects interfere with the air flow.
- When positioning the device, secure the device locally with an RCD (Residual Current Device) which complies with the appropriate regulations.

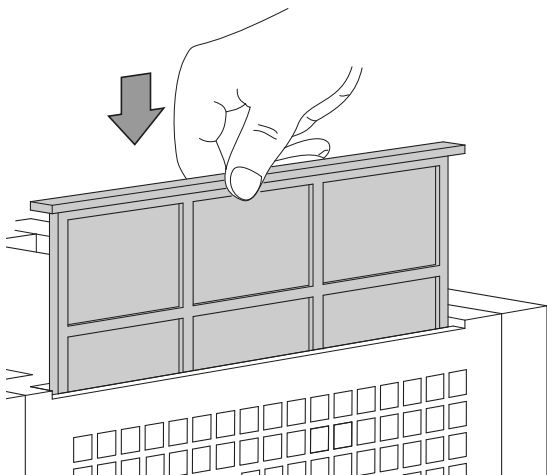
Inserting the air filter

Note

Do not operate the device without an air filter inserted into the air inlet!

Without the air filter, the inside of the device will be heavily contaminated. This could reduce the performance and result in damage to the device.

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



Inserting the condensation tank

- Ensure that the float inside the condensation tank is inserted correctly.
- Ensure that the condensation tank is empty and inserted correctly.

Installing the condensate pump (optional)

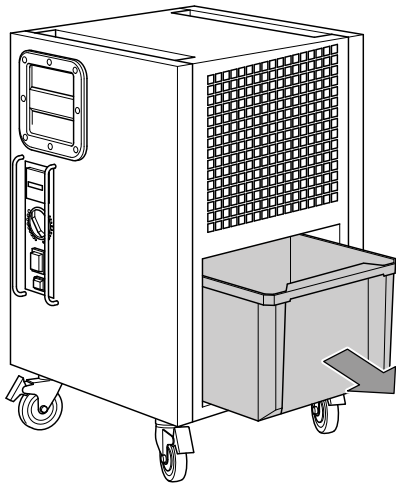


Info

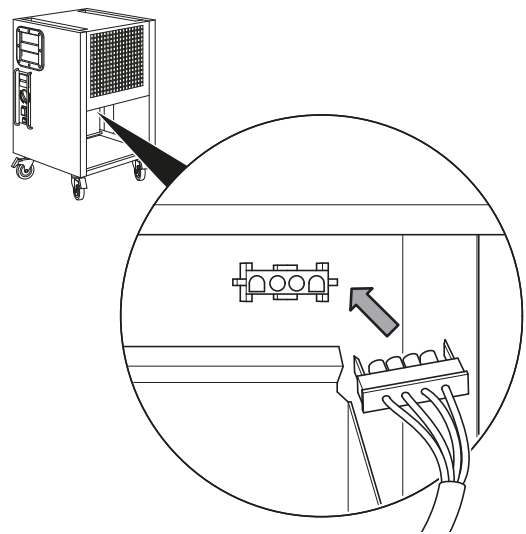
If you use the device in combination with the condensate pump via the TTKwic port and with the Qube, the Qube should be switched on and ready for use at all times to ensure the continuous operation of the pump.

If the Qube's internal pump does not deliver, the collected condensate in the Qube can flow back from the container through the suction hoses.

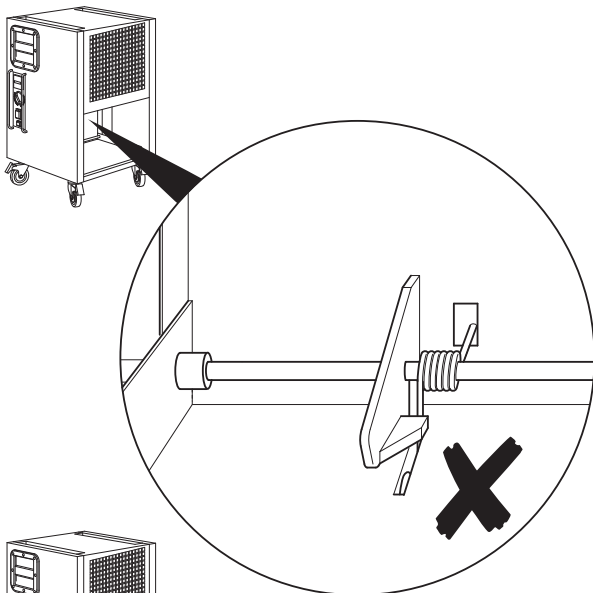
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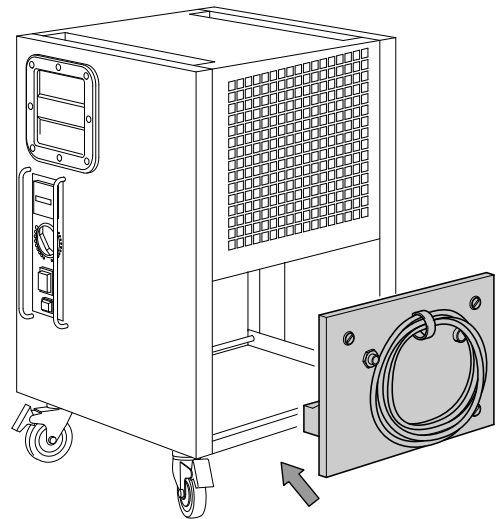
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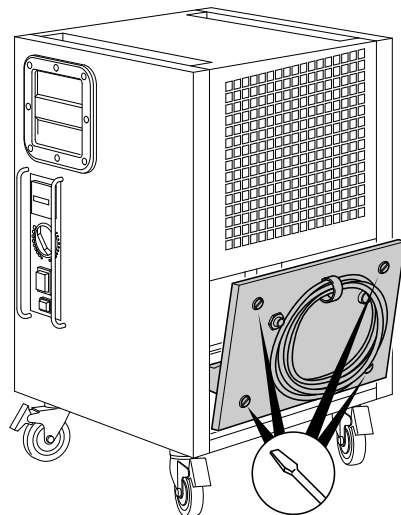
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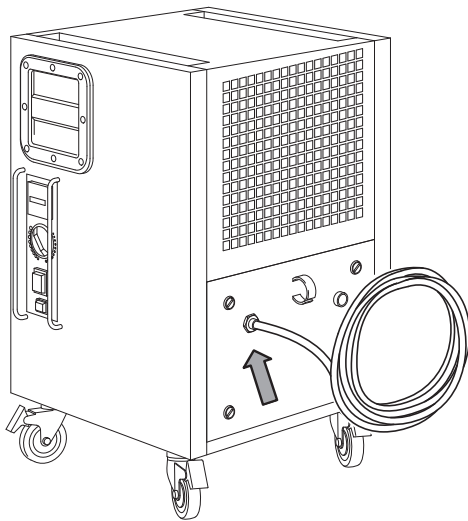
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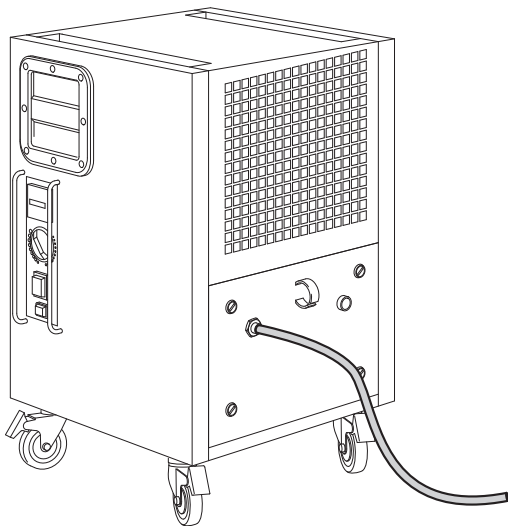
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6.



7.

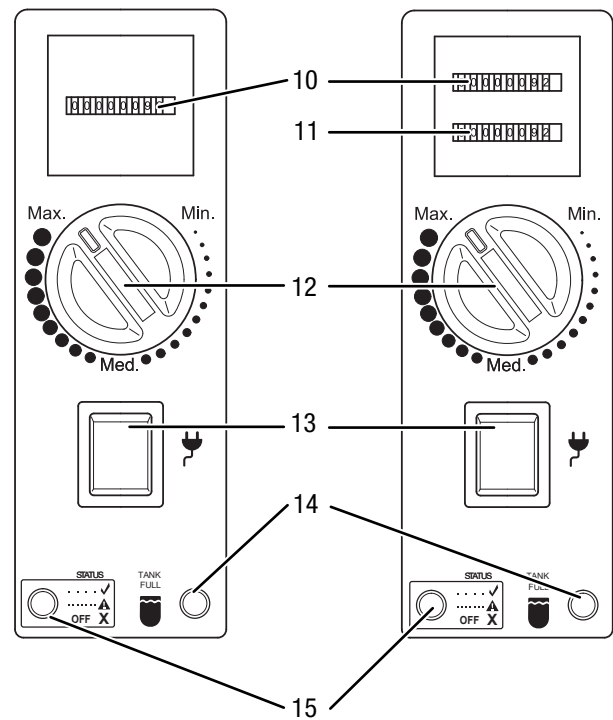


Connecting the power cable

- Insert the mains plug into a properly secured mains socket.

Operation

Control panel



No.	Designation	Meaning
10	Operating hours counter	Indication of operating hours
11	Kilowatt hours counter, MID-certified (optional)	Indication of energy consumption
12	Rotary switch	Selection of relative room humidity
13	Mains switch	Switching the device on and off; Is illuminated when the device is switched on
14	Condensation tank LED	Illuminated when the condensation tank is full or not installed correctly
15	Status LED	Illuminated to indicate the operating status and error messages (see chapter Errors and faults).



Warning of electrical voltage

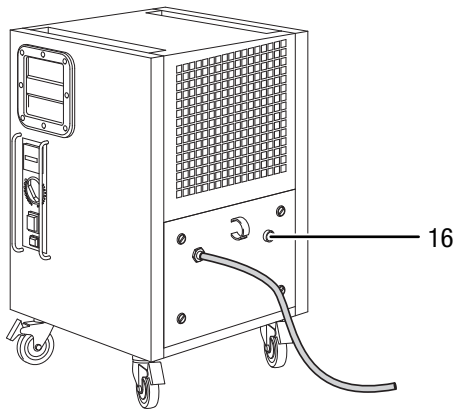
Risk of electric shock!
 The device does not have the appropriate protection class for use in wet rooms.
 There is a risk of electric shock!
 Never use the device in wet rooms (e.g. in laundry rooms) and never immerse the device in water!

The device is optionally available with an operating element with dual counter (see the image at the top right). The dual counter registers both the operating hours and the energy consumption and is certified according to the MID (Measuring Instruments Directive 2004/22/EC). The kWh display is factory-calibrated and may be used for accounting purposes. Contact your Trotec customer service.

The *Status* LED (15) flashes once a second during normal operation. If it flashes more frequently, lights up permanently or does not light up at all, there might be a fault, see chapter Errors and faults.

Condensate pump (optional)

The device can optionally be operated with a condensate pump (see chapter Installing the condensate pump (optional)). Contact your Trotec customer service.



No.	Designation	Meaning
16	Condensate pump button	Switching the condensate pump on and off for draining residual water



Info

Note that the device is only functional after three to five minutes each time it is switched on or after the condensation tank has been inserted.

Switching the device on

1. Ensure that the condensation tank is empty and inserted correctly. Otherwise, the device will not operate!
2. Insert the mains plug into a properly secured mains socket.
3. Switch on the device at the mains switch (13).
4. Ensure that the mains switch (13) is lit.
5. Check whether the *Condensation tank* LED (14) is out. Otherwise, empty the condensation tank.
6. Adjust the room humidity level with the rotary switch (12).

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 (12) 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.

Temperature limitation (overheating protection)

The device comes with a temperature limitation. It serves to protect e.g. the compressor from overheating.

- Upper temperature limit: +35 °C +/- 2 °C
- Lower temperature limit: -3 °C +/- 2 °C

If the ambient temperature exceeds or falls below these limits, the device automatically switches off the compressor; only the fan will keep running. This feature protects the device from overloading since high temperatures and high humidity levels expose the device to extreme stresses. Moreover, drying is no longer economical at such high temperatures and also poses dangers for the inventory of the room to be dried. Please note that the switch-off function works with a switch-on hysteresis of -2 °C.



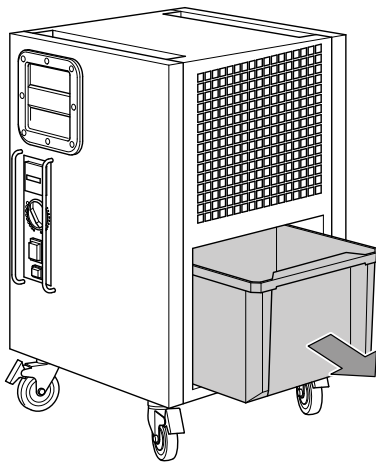
Info

The compressor always starts with a delay. This protects the compressor and thus increases its lifetime. If you remove the condensation tank from the device and reinsert it after emptying, the compressor will switch back on with a delay of approx. 3 min. This delay is also enabled in optional hygrostat operation. If the room humidity exceeds the setting of the selection switch, the compressor will only switch back on after a delay.

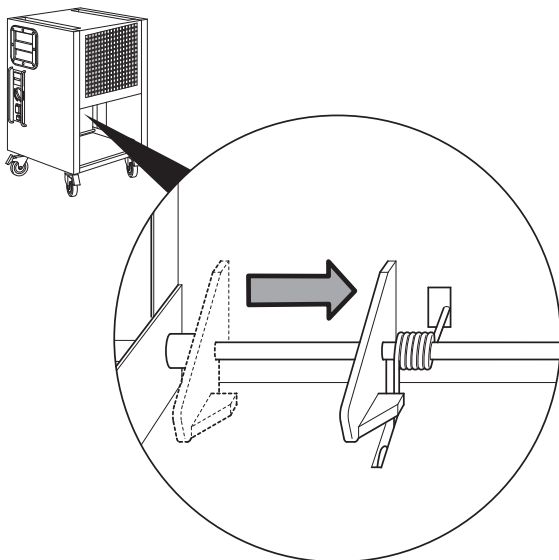
The fan keeps running independently of the compressor. The fan only switches off if the condensation tank is removed.

Operation with hose attached to the condensation connection

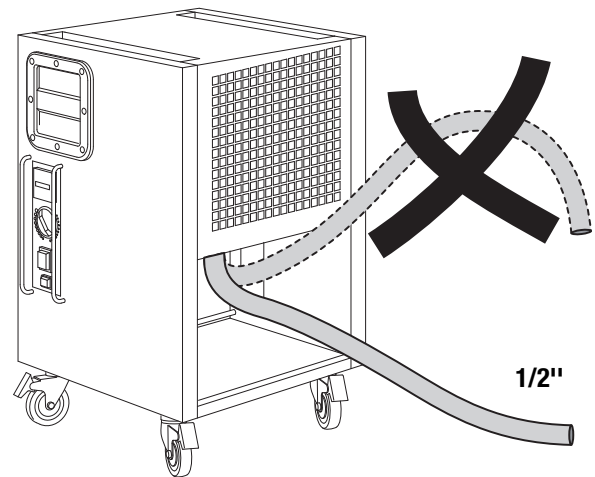
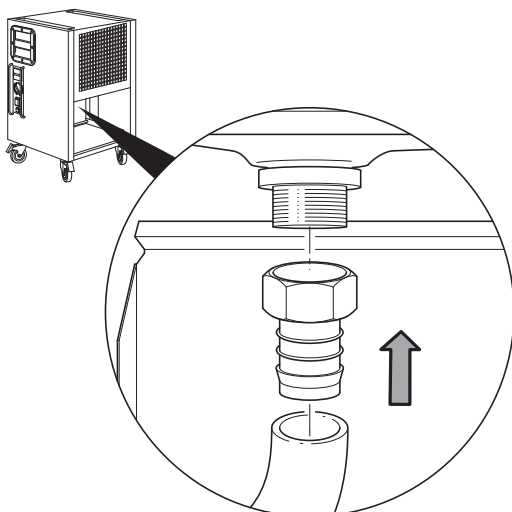
1.



2.



3.



Shutdown



Warning of electrical voltage

Do not touch the mains plug with wet or damp hands.

- Switch off the device.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- Empty the condensation tank, if need be.
- Clean the device according to the Maintenance chapter.
- Store the device according to the Transport and storage chapter.

Available accessories



Warning

Only use accessories and additional equipment specified in the instructions.

Using insertion tools or accessories other than those specified in the instructions may cause a risk of injury.

Designation	Article number
Air filter TTK 125 S	7.160.000.006
External condensate pump	6.100.003.030
Protective cover	6.100.003.101

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.
- Check the power cable and mains plug for damage.
- Check the on-site fusing.
- Check the filling level of the condensation tank and empty it if necessary. The *Condensation tank* LED (14) must not light up.
- Check the room temperature. Observe the device's permissible operating range according to the technical data.
- Check the float in the condensation tank for dirt. If necessary, clean the condensation tank. The float must be able to move freely.

The device is running, but there is no formation of condensate:

- Check the float in the condensation tank for dirt. If necessary, clean the condensation tank. The float must be able to move freely.
- Check the room temperature. Observe the device's permissible operating range according to the technical data.
- Ensure that the relative room humidity complies with the technical data.
- 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 the condenser is dirty, have it cleaned by a specialist company or by Trotec.
- The device might carry out an automatic defrost. During automatic defrost, the device does not dehumidify.

The device is loud or vibrates:

- Check whether the device is set up in a stable and upright position.

Condensate is leaking:

- Check the device for leaks.

The compressor does not start:

- Check the room temperature. Observe the device's permissible operating range according to the technical data.
- Check whether the overheating protection of the compressor has tripped. Disconnect the device from the mains and let it cool down for approx. 10 minutes before reconnecting it.
- The device might carry out an automatic defrost. During automatic defrost, the device does not dehumidify.

The device gets very warm, is loud or is losing performance:

- Check the air inlets and air filters 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 for cooling and air-conditioning or by Trotec.

Note

Wait for at least 3 minutes after maintenance and repair work. Only then switch the device back on.

The device still does not operate correctly after these checks:

Please contact the customer service. If necessary, bring the device to a specialist company for cooling and air-conditioning or to Trotec for repair.

Error codes

The *Status* LED (15) can indicate the following statuses during operation:

Error message	Meaning	Remedy
Flashing once per second	Normal operation	No remedy required
Flashing five times per second	The temperature is above or below the limit.	The temperature should be within the operating temperature range specified in the Technical data.
	The humidity level has reached the switching point.	The device will switch back on once the humidity level set is exceeded.
Permanently illuminated	There is a general problem.	Please contact the customer service.
Not illuminated		

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
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 filter for dirt and foreign objects and clean or replace if necessary	X		X			
Replace the air filter					X	
Check for damage	X					
Check the attachment screws		X				X
Test run						X
Empty the condensation tank and/or drain hose		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 air inlets and outlets for dirt and foreign objects and clean if necessary																
Clean the exterior																
Visually check the inside of the device for dirt																
Check the air filter for dirt and foreign objects and clean or replace if necessary																
Replace the air filter																
Check for damage																
Check the attachment screws																
Test run																
Empty the condensation tank and/or drain hose																
Comments																

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



Warning of electrical voltage

Do not touch the mains plug with wet or damp hands.

- Switch the device off.
- Hold onto the mains plug while pulling the power cable out of the mains socket.



Warning of electrical voltage

Tasks which require the device to be opened must only be carried out by authorised specialist companies or by Trotec.

Running capacitor

Note

Replace the running capacitor after 10,000 operating hours!

Refrigerant circuit



Danger

Natural refrigerant propane (R290)!

H220 – Extremely flammable gas.
H280 – Contains gas under pressure; may explode if heated.

P210 – Keep away from heat, sparks, open flames and other ignition sources. No smoking.
P377 – Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P410+P403 – Protect from sunlight. Store in a well-ventilated place.

- 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.

Safety signs and labels on the device

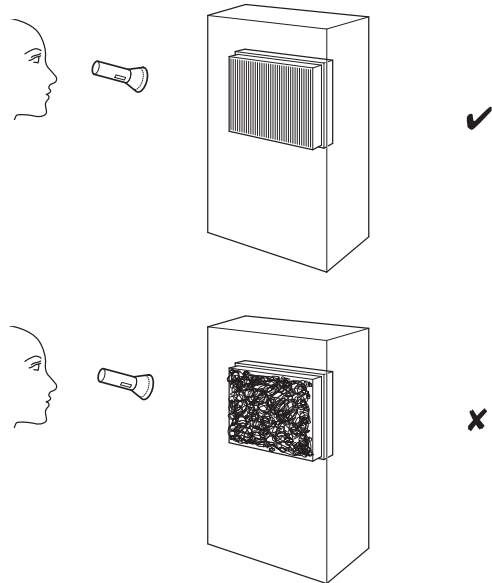
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

Cleaning the housing

Clean the housing with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Protect electrical components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.

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. Check the inside of the device for dirt.
4. 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.
5. Put the air filter back in.



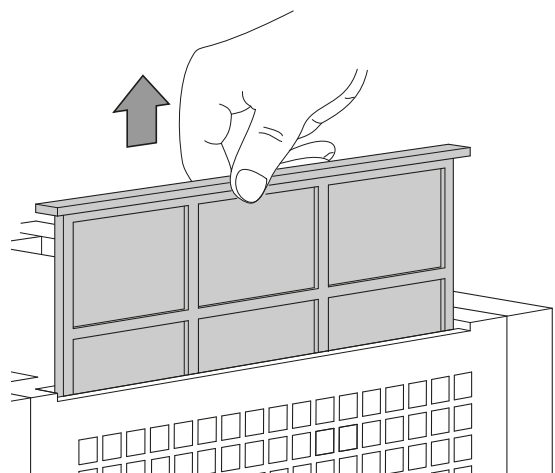
Cleaning the air filter

Note

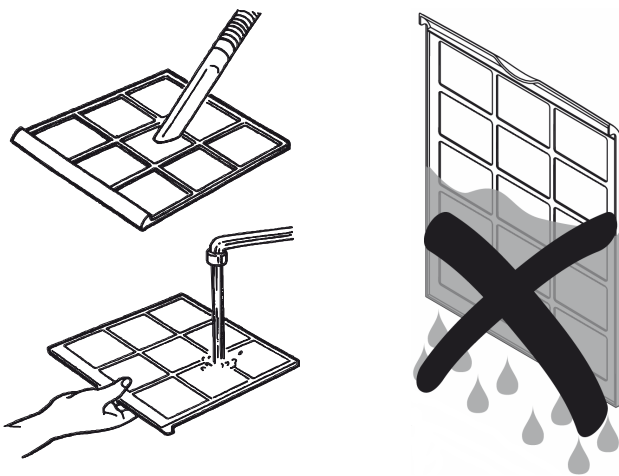
Ensure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry!

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).

1. Remove the air filter from the device.



2. Clean the filter using a slightly damp, soft, lint-free cloth. If the filter is heavily contaminated, clean it with warm water mixed with a neutral cleaning agent.



3. Allow the filter to dry completely. Do not insert a wet filter into the device!
4. Reinsert the air filter into the device.

Emptying the condensation tank



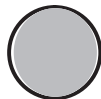
Info

The compressor always starts with a delay. This protects the compressor and thus increases its lifetime. If you remove the condensation tank from the device and reinsert it after emptying, the compressor will switch back on with a delay of approx. 3 min. This delay is also enabled in optional hygrostat operation. If the room humidity exceeds the setting of the selection switch, the compressor will only switch back on after a delay.

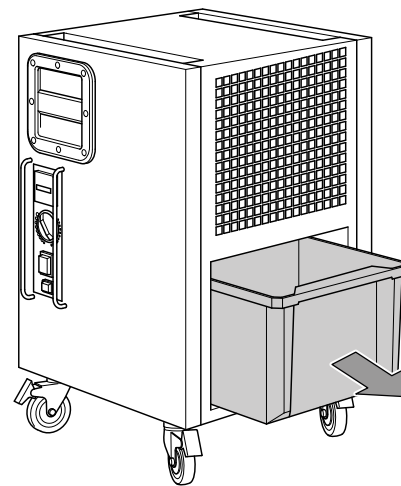
The fan keeps running independently of the compressor. The fan only switches off if the condensation tank is removed.

1.

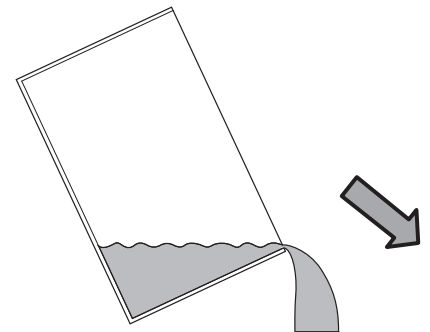
TANK FULL



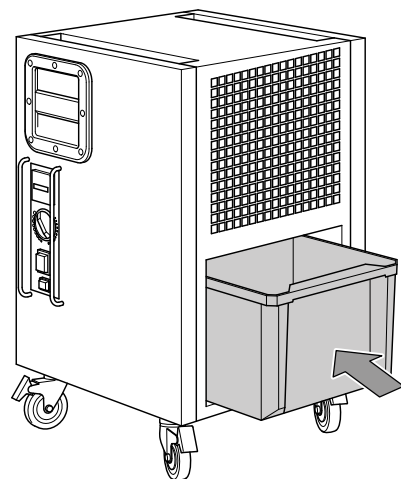
2.



3.



4.



If the condensation tank is full or not installed correctly, the *Condensation tank* LED (14) will be illuminated. The compressor and fan will switch off.

Activities required after maintenance

If you want to continue using the device:


- Reconnect the device to the mains.

If you do not intend to use the device for a considerable time:

- Store the device according to the Transport and storage chapter.

Technical annex

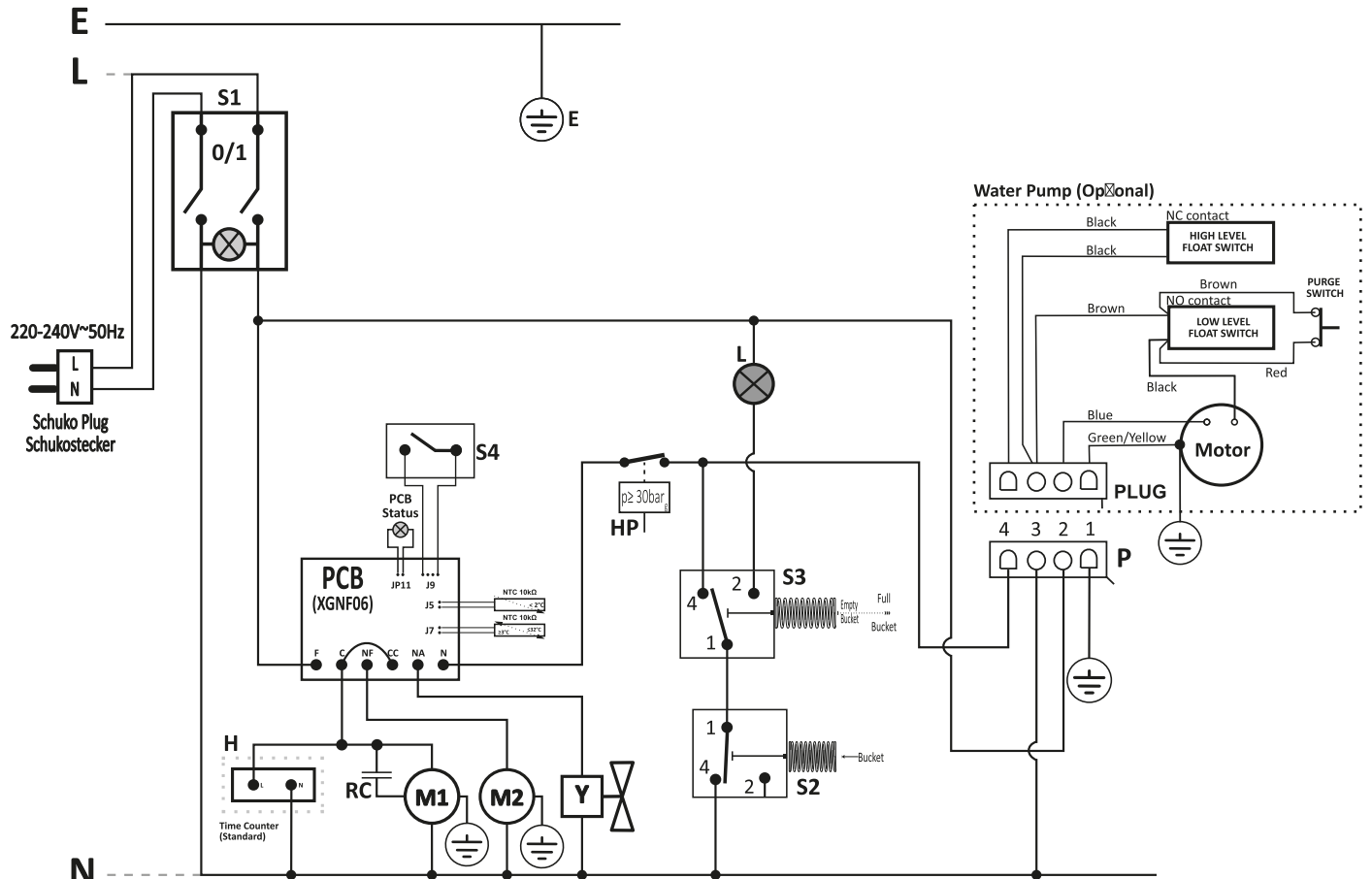
Technical data

Parameter	Value
Model	TTK 125 S
Dehumidification performance, max.	32 l / 24 h
Operating range (temperature)	5 °C – 32 °C
Operating range (relative humidity)	50 % – 90 % RH
Max. permissible pressure	3.0 MPa
Pressure suction side	0.6 MPa
Pressure outlet side	2.1 MPa
Air volume flow	250 m ³ /h
Mains connection	220 – 240 V / 50 Hz
Power consumption, max.	0.5 kW
Nominal current	2.3 A
Fusing 	-
Type of protection	IPX0
Water tank capacity	6 l
Refrigerant	R290
Amount of refrigerant	150 g
GWP factor	3
CO ₂ equivalent	0.00045 t
Sound pressure level LpA (1 m; complies with DIN 45635-01-KL3)	52 dB(A)
Dimensions (length x width x height)	375 x 345 x 603 mm
Minimum distance to walls and other objects	A: top: 50 cm B: rear: 50 cm C: side: 50 cm D: front: 50 cm
Weight	26 kg

Wiring diagram

With operating hours counter

Wiring diagram with tank present & full tank & condensates pump & pressure switch resetting the PCB
 With the LED in JP11, the ambient temperature monitoring probe is active and in this mode a 3 min. delay is set during startup
 Hour counter just counting the compressor operation time

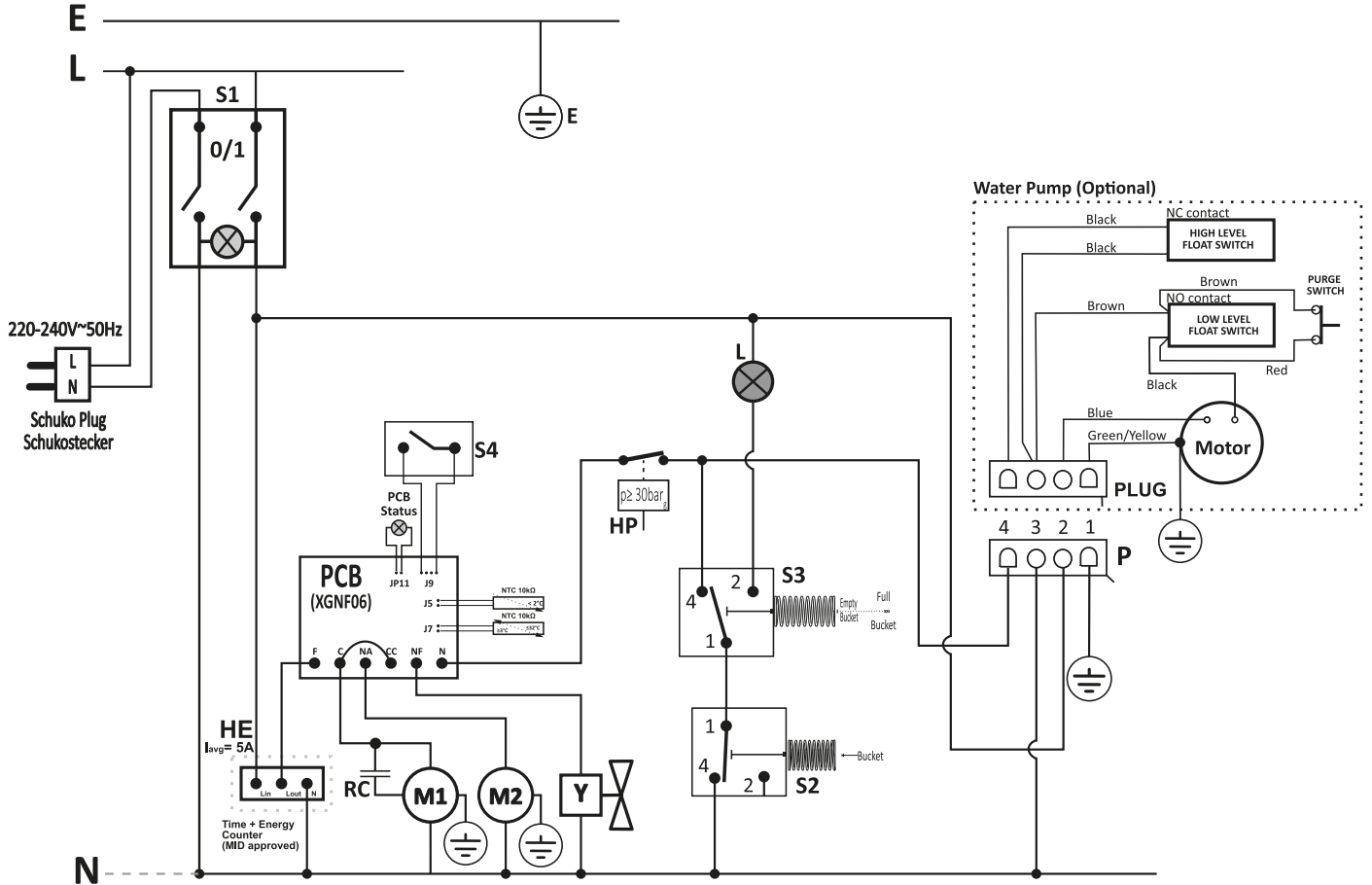


- E - Earthing / Erdung
- N - Common Line / Gemeinsame
- L - Line / Außenleiter
- S1 - On-Off Switch / Geräteschalter 0/1
- S2 - Micro switch (Tank Presence) / Mikroschalter Wippe Vollstand (Tank Präsenz)
- S3 - Micro Switch (Tank Full) / Mikroschalter Wippe Vollstand (Behälter voll)
- S4 - Humidistat / Hygrostat
- L - Red lamp (Tank full) / Signalleuchte " rot " (Behälter voll)
- M1 - Compressor / Kompressor
- M2 - Fan motor / Lüftermotor
- Y - Two Way Valve / Abtau-Magnetventil
- RC - Running Capacitor / Motorbetriebskondensator
- H - Time Counter (Standard) / Zeit Zähler (Standard)
- P - Water Pump Socket / Wasserpumpe Stockdose
- HP - High pressure switch / Hochdruckschalter

NOTE: Wiring is prepared to connect both Time Counter as well as Time & Energy Counter

With operating hours counter and MID counter

Wiring diagram with tank present & full tank & condensates pump & pressure switch resetting the PCB
 With the LED in JP11, the ambient temperature monitoring probe is active and in this mode a 3 min. delay is set during startup
 Counter counting energy and time downstream the main switch



- E - Earthing / Erdung
- N - Common Line / Gemeinsame
- L - Line / Außenleiter
- S1 - On-Off Switch / Geräteschalter 0/1
- S2 - Micro switch (Tank Presence) / Mikroschalter Wippe Vollstand (Tank Präsenz)
- S3 - Micro Switch (Tank Full) / Mikroschalter Wippe Vollstand (Behälter voll)
- S4 - Humidistat / Hygrostat
- L - Red lamp (Tank Presence) / Signalleuchte " rot " (Tank Präsenz)
- M1 - Compressor / Kompressor
- M2 - Fan motor / Lüftermotor
- Y - Two Way Valve / Abtau-Magnetventil
- RC - Running Capacitor / Motorbetriebskondensator
- HE - Time + Energy Counter (Optional) / Zeit + Energie Zähler (Zusätzliche)
- P - Water Pump Socket / Wasserpumpe Stockdose
- HP - High pressure switch / Hochdruckschalter

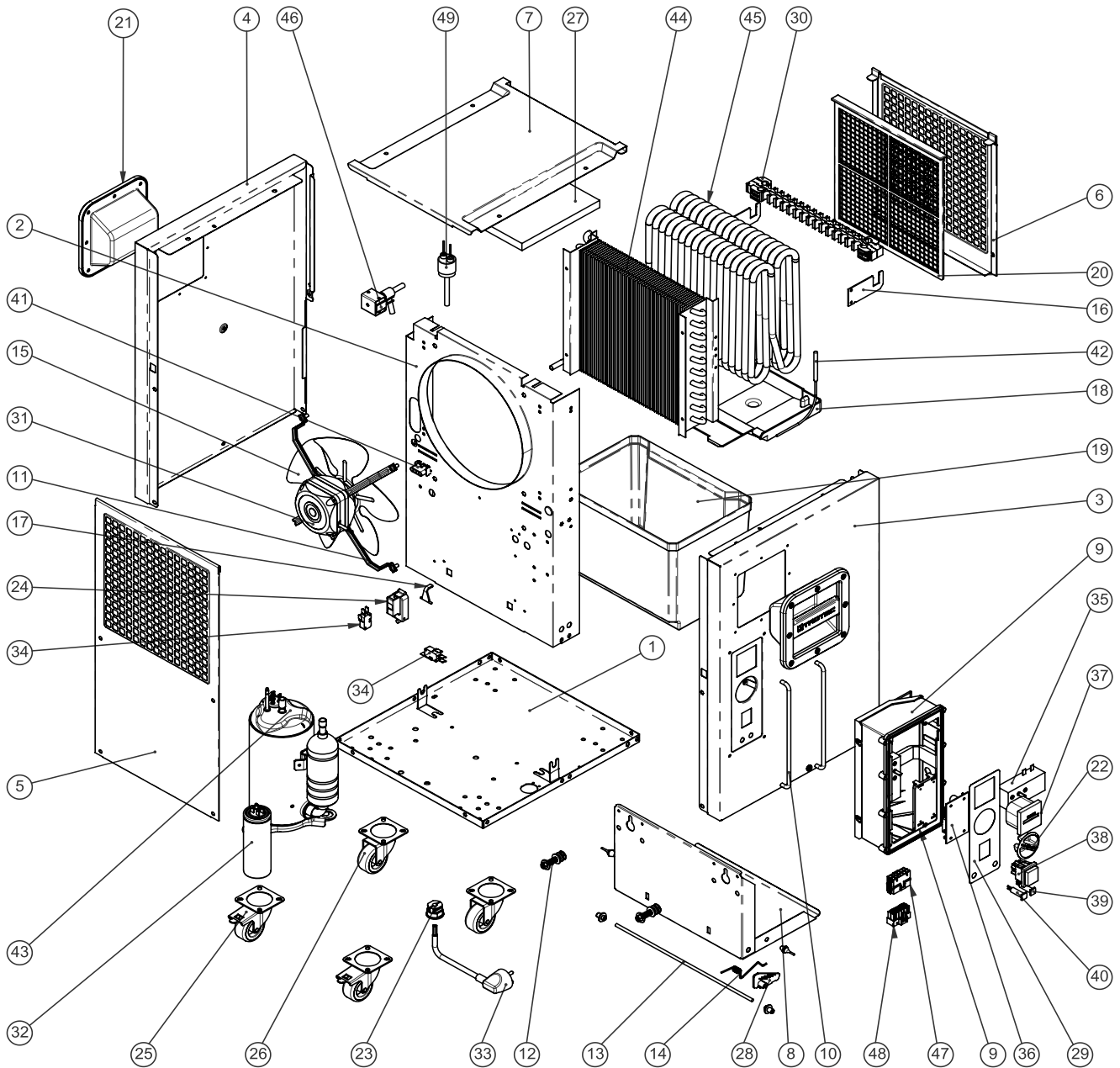
NOTE: Wiring is prepared to connect both Time Counter as well as Time & Energy Counter

Exploded assembly drawing



Info

The position numbers of the spare parts differ from those describing the positions of the components mentioned in these instructions.



Spare parts list TTK 125 S

No.	Spare part	No.	Spare part	No.	Spare part
1	Baseplate	18	Condensates water pan	35	Humidistat
2	Main frame	19	Water tank	36	Electronic controller
3	Control's side panel	20	Air filter	37	Hour counter
4	Left panel	21	Plastic grip	38	Main switch
5	Air outlet grille	22	Humidistat knob	39	Full water tank lamp
6	Air inlet grille	23	Cable gland	40	Electronic controller status LED
7	Top panel	24	Full water tank switch housing	41	Condensates pump socket
8	Water tank baseplate	25	Spinning castor with brake	42	Defrost sensor
9	Control's box	26	Spinning castor without brake	43	Compressor
10	Control's protection bars	27	Insulating plate	44	Finned condensing coil
11	Fan motor brackets	28	Buckets dummy	45	Aluminium tubular evaporating coil
12	Full water tank system	29	Control panel sticker	46	Defrost valve coil
13	Water tank baseplate shaft	30	Evaporating coil bracket	47	Control's box internal wiring
14	Water tank detection lever	31	Fan motor	48	Unit's internal wiring
15	Fan blade	32	Running capacitor	49	Pressure switch
16	Evaporating coil supports	33	Power supply cable		
17	Full water tank actuating pin	34	Water tank detection switch		

Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.



The icon with the crossed-out waste bin on waste electrical or electronic equipment is taken from Directive 2012/19/EU. It states that this device must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website <https://hub.trotec.com/?id=45090>. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country. The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

Have the refrigerant (propane) disposed of appropriately and according to the national regulations by a company with the relevant certification (European Waste Catalogue 160504).

Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

Declaration of conformity

Declaration of conformity in accordance with the EC Machinery Directive 2006/42/EC, Annex II, Part 1, Section A

We – Trotec GmbH – declare in sole responsibility that the product designated below was developed, constructed and produced in compliance with the requirements of the EC Machinery Directive in the version 2006/42/EC.

Product model / Product: TTK 125 S
Product type: dehumidifier
Year of manufacture as of: 2022

Relevant EU directives:

- 2011/65/EU
- 2012/19/EU
- 2014/30/EU
- 2015/863/EU

Applied harmonised standards:

- EN 60335-1:2012/A15:2021
- EN 60335-2-40:2003
- EN 60335-2-40:2003/A1:2006
- EN 60335-2-40:2003/A2:2009
- EN 60335-2-40:2003/A11:2004
- EN 60335-2-40:2003/A12:2005
- EN 60335-2-40:2003/A13:2012
- EN 60335-2-40:2003/AC:2006
- EN 60335-2-40:2003/AC:2010
- EN 60335-2-40:2003/AC:2013
- EN 61000-3-3:2013

Applied national standards and technical specifications:

- EN IEC 55014-1:2021
- EN IEC 55014-2:2021
- IEC 60335-2-40:2018
- EN IEC 61000-3-2:2019
- EN IEC 61000-3-2:2019/A1:2021
- EN 60335-1:2012/A1:2019
- EN 60335-1:2012/A2:2019
- EN 60335-1:2012/A14:2019
- EN 61000-3-3:2013/A1:2019
- IEC 60335-1:2010
- IEC 60335-1:2010/A1:2013/A2:2016
- IEC 61000-3-2:2018
- IEC 61000-3-2:2018/A1:2020
- IEC 61000-3-3:2013
- IEC 61000-3-3:2013/A1:2017
- IEC 61000-3-3:2013/A2:2021

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