TTK QUBE



ORIGINAL INSTRUCTIONS







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Notes regarding the instructions

Symbols



Danger

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



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 Qube



https://hub.trotec.com/?id=44931

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.
- 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.
- No part of the cooling circuit may be perforated.
- R1234yf 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, bathrooms and basements
 - laundries, holiday homes, camper vans, boats
- 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.
- Do not use the device in wet rooms (e.g. bathrooms or 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:



Follow the manual

This symbol indicates that the instructions 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.

Residual risks



Danger

Refrigerant 2,3,3,3-Tetrafluoropropene (R1234yf)!

H221 - Flammable gas.

H280 - Contains gas under pressure; may explode if

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.

P381 – Eliminate all ignition sources if safe to do so.

P403 – 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 bathrooms and 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.



Behaviour in the event of an emergency

- 1. Switch the device off.
- 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.

The device comes with a hot gas automatic defrost system. Here, the hot gas of the refrigerant circuit is used actively for fast and effective defrosting. This makes the device operate effectively even at temperatures below 15 °C.

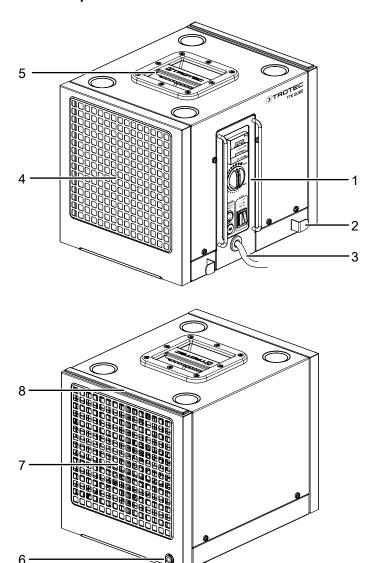
The comfort function allows the device to operate particularly quietly and thus makes it suitable for the use in inhabited surroundings.

To discharge the condensate, the device is equipped with an integrated condensate pump with automatic switch-off function that is able to operate up to a height of max. 10 m.

The device can reduce the relative humidity of a room to approx. $30\,\%$.

The device has a control panel for operating and controlling the functions.

Device depiction



No.	Designation
1	Control panel
2	Cable holder
3	Power cable
4	Air outlet
5	Carrying handle
6	Condensation drain hose connection
7	Air inlet
8	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 a transport handle.

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.

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 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.
- Up to 4 devices may be stacked on top of one another.
- Place no further devices or objects on top of the device to prevent it from being damaged.

Assembly and start-up

Scope of delivery

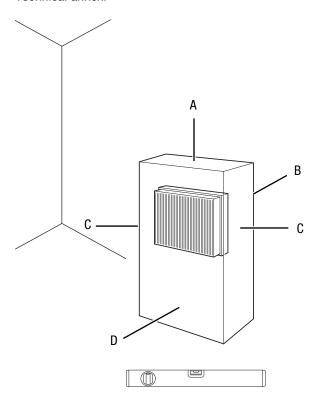
- 1 x device
- 1 x air filter
- 1 x condensation drain hose, length: 5 m, diameter: 8 mm
- 1 x manual

Unpacking the device

- 1. Open the cardboard box and take the device out.
- 2. Completely remove the packaging.
- 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.

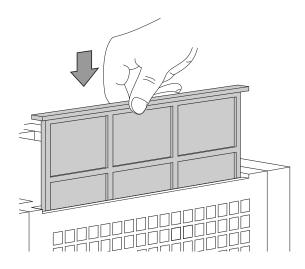
Inserting the air filter

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.

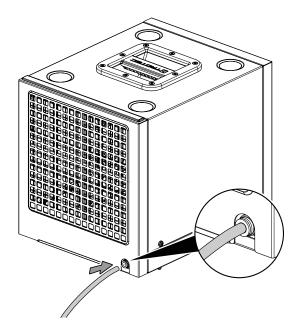


Positioning the condensation drain hose

Note

Do not use the device without the condensation drain hose connected!

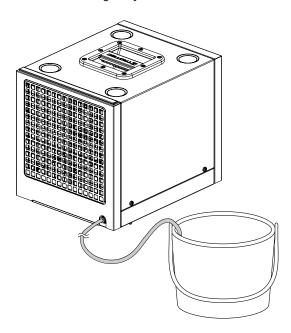
- ✓ A suitable hose (diameter: 8 mm) is ready for use.
- ✓ The device is switched off.
- 1. Connect the condensation drain hose to the hose connection.



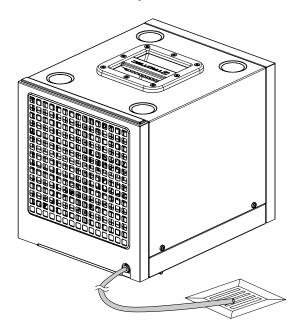
2. Make sure that the condensation drain hose is properly connected to the device and free of damage.



- 3. Depending on the application, position the end of the condensation drain hose as follows:
 - ⇒ Place a sufficiently dimensioned container (at least 90 litres) near the device and insert the hose end. The device is equipped with a pump and is able to pump the water up to a height of 10 m. Check the filling level of the container regularly.



 ⇔ Completely unwind the hose and guide the hose end to a water drain. Avoid kinking or pinching the hose. The hose end must not lay in the water!



Connecting the power cable

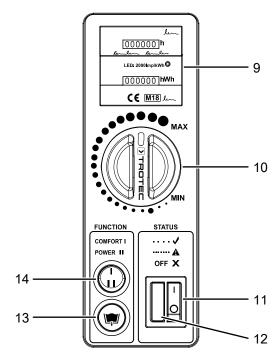
 Insert the mains plug into a properly secured mains socket.

Operation

Notes:

- Avoid open doors and windows.
- After being switched on, the device operates fully automatically.
- The compressor switches on approx. 3 minutes after the device has been switched on.

Control panel



No.	Designation	Meaning
9	Dual counter	Indication of operating hours and energy consumption
10	Rotary switch	Selection of relative room humidity (hygrostat)
11	Mains switch	Switching the device on and off; Is illuminated when the device is switched on
12	Status lamp	Flashes slowly during operation; Flashes quickly in the event of a fault
13	Condensate outlet button	Manual activation of the condensate pump Is illuminated if the condensate pump is in operation
14	FUNCTION flip switch	Selecting the comfort or power function





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 bathrooms and laundry rooms) and never immerse the device in water!

The device comes equipped with a dual counter. 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.

Switching the device on

Once you have completely installed the device as described in the chapter Assembly and start-up, you can switch it on.

- 1. Switch the device on by setting the mains switch (11) to position I.
- 2. Make sure that the mains switch button (11) is illuminated and that the *status* lamp (12) flashes slowly.
- 3. Adjust the room humidity level with the rotary switch (10).
- 4. Once condensate forms, the condensate pump is activated automatically. To activate the condensate pump manually, press the *condensate outlet* button (13). When the condensate pump is activated, the *condensate outlet* button (13) is illuminated.

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 (10) to Max.

Adjusting the room humidity level

- 1. Set the desired humidity level via the rotary switch (10) of the hygrostat.
- 2. After approx. 24 hours, check the humidity with a thermohygrometer.
 - ⇒ If the air is too dry (insufficient humidity level), turn the rotary switch (10) slightly towards MIN.
 - ⇒ If the air is too humid, turn the rotary switch (10) slightly towards MAX.
- Wait 24 hours every time you have changed the hygrostat setting and repeat the process until the desired room humidity is reached.
 - ⇒ Once the set room humidity is reached, the compressor and the fan of the device switch off automatically.
 - ⇒ If the set room humidity is exceeded, the compressor and the fan switch back on automatically. The room air is dehumidified.

Comfort function

The device operates particularly quietly in comfort mode. To activate the comfort function, set the *FUNCTION* flip switch (14) to **I**. To return to the power function, set the *FUNCTION* flip switch (14) to **II**.

Automatic defrost

At low ambient temperatures, ice may form at the evaporator during dehumidification. The device carries out an automatic defrost by means of the hot gas feed. Here, a hot cooling agent is led into the iced evaporator for its surfaces to defrost.

The hot gas automatic defrost system integrated in the device automatically switches on the defrost cycle at regular intervals.

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. When you switch on the device, the compressor will switch on with a delay of approx. 3 min. This delay is also enabled in hygrostat operation. If the room humidity exceeds the setting of the selection switch, the compressor will only switch back on after a delay.



Shutdown



Warning of electrical voltage

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

- Press the condensate outlet button (13) to drain the residual water.
- Switch the device off by setting the mains switch to position 0.
- Hold onto the mains plug while pulling the power cable out of the mains socket.
- If necessary, remove the condensation drain hose and any residual fluid from it.
- 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 for TTK Qube	7.160.000.014			
Condensation drain hose	7.331.000.474			

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 room temperature. Observe the device's permissible operating range according to the technical data.

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

- 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.
- Check whether the condensation drain hose is connected, connect it if necessary. If the condensation drain hose has already been connected, check it for tightness.

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 airconditioning or by Trotec.

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.



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
Cleaning the condensate pump		Х				
Check air inlets and outlets for dirt and foreign objects and clean if necessary	X			Х		
Clean the exterior		Х				X
Visually check the inside of the device for dirt		Х		Х		
Clean the inside with compressed air		Х				X
Check air inlet grid and air filter for dirt and foreign objects and clean or replace if necessary	Х		X			
Clean the air filter, replace if necessary		Х			Х	
Check for damage	Х					
Check the attachment screws		Х				X
Test run						X

Maintenance and care log

Maintenance and care interval	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Cleaning the condensate pump																
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																
Clean the inside with compressed air																
Check air inlet grid and air filter for dirt and foreign objects and clean or replace if necessary																
Clean the air filter, replace if necessary																
Check for damage																
Check the attachment screws																
Test run																
Remarks:																

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

Refrigerant 2,3,3,3-Tetrafluoropropene (R1234yf)!

H221 – 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.

P381 – Eliminate all ignition sources if safe to do so.

P403 – 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

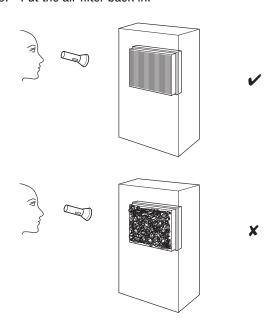
Check the safety signs and labels attached to the device at regular intervals. Replace illegible safety signs!

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.





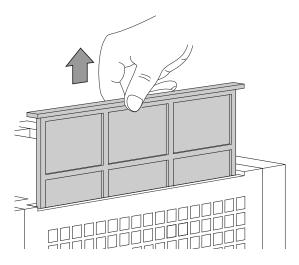
Cleaning the air filter

Note

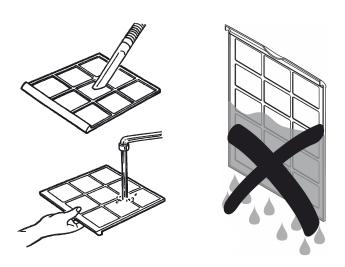
Ensure that the air filter is not worn or damaged. The corners and edges of the air filter must not be deformed or rounded. Before reinserting the air filter, make sure that it is undamaged and dry!

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.

Cleaning the inside with compressed air



Warning

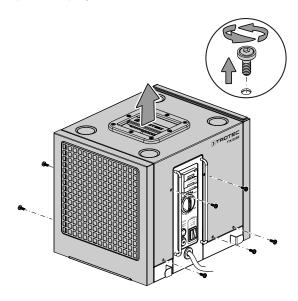
Risk of injury caused by ejected compressed air upon activation of the compressed air supply.

Hold the compressed-air hose away from your body.

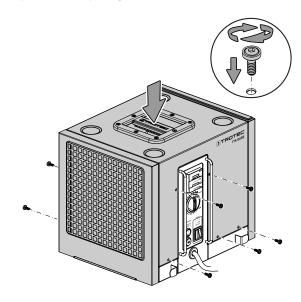
Hold the compressed-air hose away from your body. Pointing the compressed-air hose at another person is prohibited.

The housing has to be removed in order to perform cleaning and maintenance tasks inside the device.

- The device is switched off and disconnected from the mains.
- 1. Loosen and remove the screws on both sides of the device. Keep the screws safe for later use.
- 2. Lift the housing off the base frame and the cooling system by the carrying handle.



- 3. Carefully set the housing aside.
- 4. Clean the interior of the device by means of compressed air
- 5. Reassemble the housing on base frame and cooling system. Finally retighten all screws.





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

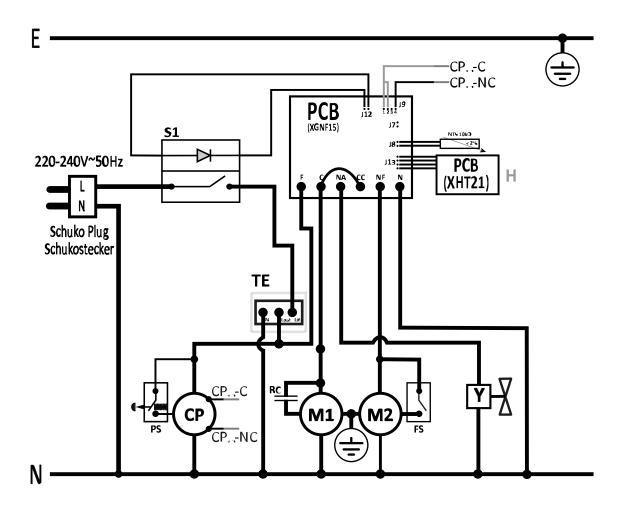
Technical data

Parameter	Value
Model	TTK Qube
Dehumidification performance, max.	20 I / 24 h
Operating range (temperature)	5 °C – 35 °C
Operating range (relative humidity)	40 % – 90 % RH
Max. permissible pressure	1.8 MPa
Pressure suction side	0.3 MPa
Outlet side pressure	1.6 MPa
Air volume flow	283 m ³ /h
Mains supply	220 – 240 V / 50 Hz
Max. power consumption	362 W
Nominal current	1.7 A
Type of protection	IPX0
Protection	10 A
Pump height condensate pump	10 m
Refrigerant	R1234yf
Amount of refrigerant	0.140 kg
GWP factor	4
CO ₂ equivalent	0.001 t
Sound pressure level LpA (1 m; complies with DIN 45635-01-KL3)	53 dB(A)
Dimensions (length x width x height)	315 x 382 x 340 mm
Minimum distance to walls and other objects	
A: top:	5 cm
B: rear:	
C: side:	I .
D: front:	50 cm
Weight	16 kg



Wiring diagram

With operating hours counter and MID-compliant energy meter



E - Earthing

N - Common line

L - Line

S1 - On-Off Switch + Status LED

H - Humidity sensor

M1 - Compressor

M2 - Fan Motor

FS - Fan speed switch

Y - Defrost valve

RC – Running capacitor

TE – Time + Energy Counter (optional)

CP - Condensate pump

PS – Water Pump Purge Switch

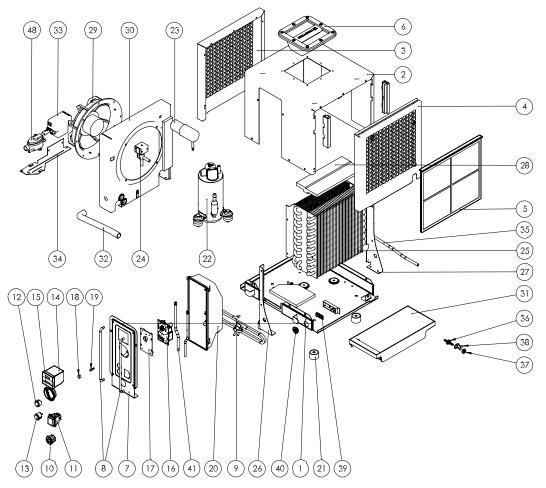


Exploded assembly drawing



Info

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



List of spare parts for TTK Qube

No.	Spare part	No.	Spare part	No.	Spare part
1	Baseplate	15	Humidistat Knob	29	Fan
2	Housing	16	PCB	30	Fan plate
3	Air Outlet Grille	17	PCB Holder	31	Water Pan
4	Air Inlet Grille	18	Knob's Spring Retainer	32	Water Pan to Condensates Pump Hose
5	Air Inlet Filter	19	Humidistat shaft	33	Condensates Pump
6	Plastic Grip	20	Controls Protection Box	34	Condensates Pump Baseplate
7	Control Panel	21	Non-Marking Rubber Feet	35	Condensates Pump to Fitting Hose
8	Controls' Protection Bars	22	Compressor	36	Hose Fitting
9	Supply Cable	23	Running Capacitor	37	Hose Fitting Nut
10	Cable Retainer	24	Defrost Valve	38	Hose Fitting Plug
11	I/O Main Switch + Status LED	25	Finned Pack Heat Exchanger	39	Humidity Sensor
12	Fan Speed Switch	26	Heat Exchanger Left Support	40	Humidity Sensor Housing
13	Condensates Pump Purge Switch	27	Heat Exchanger Right Support	41	Internal Wiring
14	Hours Counter / Hours+Energy Counter	28	Insulating Foam Plate		



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.

The device is operated with fluorinated refrigerant, which can be dangerous for the environment and contribute to global warming when emitted to the atmosphere.

Further information is provided on the nameplate.

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

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 Qube
Product type: dehumidifier

Year of manufacture as of: 2023

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/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+A11:2012+AC:2013
- EN 60335-2-40:2003/AC:2006
- EN 60335-2-40:2003/AC:2010

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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