

EN

OPERATING MANUAL INSULATION DRYING UNIT



Table of contents

Notes regarding the operating manual.....	1
Safety	2
Information about the device	3
Transport and storage	6
Assembly and installation	7
Start-up	9
Operation	10
Errors and faults	11
Maintenance	12
Technical annex.....	23
Disposal	26
Declaration of conformity	27

Notes regarding the operating manual

Symbols



Warning of electrical voltage

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



Warning of hot surface

This symbol indicates dangers to the life and health of persons due to hot surface.



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 operating manual must be observed.

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



QUBE



<http://hub.trotec.com/?id=39603>

Legal notice

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Changes to construction in the interests of constant improvements to the product, as well as changes to the shape and colour are reserved.

The scope of delivery may vary from product images. This document was created with all due care. Trotec GmbH & Co. KG accepts no liability whatsoever for possible mistakes or omissions.

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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 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 will result in the loss 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 will be voided also.

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!

- 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 insert any objects or limbs into the device.
- Do not cover or transport the device during operation.
- 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!
- 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.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable. Defective power cables pose a serious health risk.
- Insert the mains plug into a properly secured mains socket.

Intended use

The Qube is to be used in low pressure mode for insulation drying of floating screeds, flat roofs (warm roof constructions) and hollow floorings. It is intended to transport non-aggressive and non-explosive gaseous media.

Improper use

The device is not suitable for the inflation of bouncy castles or similar objects.

The device is not designed to suck in large quantities of water. If, during insulation drying, you notice that there are large amounts of water left in the insulation layer, the water must be sucked off with a water extractor before using the device.

Media other than those listed as intended use must not be transported.

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



Warning of electrical voltage

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



Warning of hot surface

Risk of injury due to hot surfaces at the outlet opening.



Warning!

Small objects and particles can be sucked in and lead to injuries.

Make sure that no person is standing near the inlet or outlet opening while the device is running.



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!

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

Note

Do not operate the device without an inserted air filter! 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

Overheating of motor electronics
Permanent or repeated overheating may destroy the motor electronics. Avoid overheating the device and provide sufficient air circulation. If necessary, direct the warm air out of the room. Room temperatures above 35 °C are to be avoided during operation. Also observe the information in the Set-up chapter.

Note

Damage to the turbine due to sucked-in particles.
If impurities enter into the turbine, this might damage the turbine. The turbines are suited for transporting clean air only.

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 the power cable from the mains socket. Hold onto the mains plug while doing so.
2. Do not reconnect a defective device to the mains.

Information about the device

Device description

The new Qube consists of only one device and is 50 % lighter and 50 % smaller than a comparable MultiQube tower. A multi-device installation with complex hose connections can be omitted without replacement. Just set it up, plug it in, switch it on – all done! No further equipment technology is required. The Qube comes ready for connection with all integrated parts: A powerful VX 5 turbine insulation dryer, a water separator, a 4-stage filter system and an efficient silencer – ultra-compact, united in a robust, stackable aluminium construction, offering clearly more advantages and at the same time causing considerably less costs than multi-device solutions.

Globally unique integral solution:

- VX 5 turbine
- Water separator WA 4i
- HEPA filter module
- Silencer NR 19

Equipment features:

- Adaptronic power control for flexible low-pressure surface drying operations ranging from 8 m² to 85 m²
- Globally unique HiDry automatism for all power stages
- Optiflow NT multi-function display
- Non-wearing touchscreen control panel
- Counter for operating hours and energy consumption
- Night operation – whisper mode
- 2 TTKwic quick couplings for drainage connection of dehumidifiers
- Flexible 4-stage filter system
- DA-4 interface
- Efidry humidity sensor connection
- Residual water draining
- Connection for discharge of hot process air
- Service power socket
- Cable holder

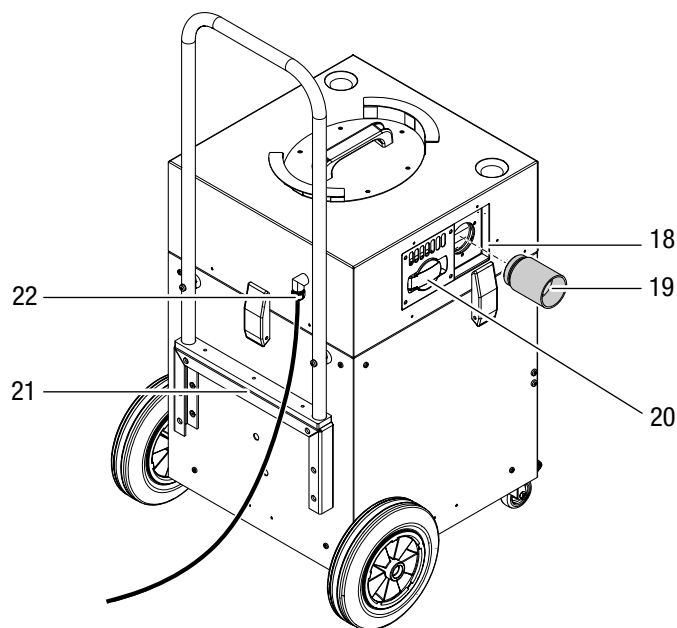
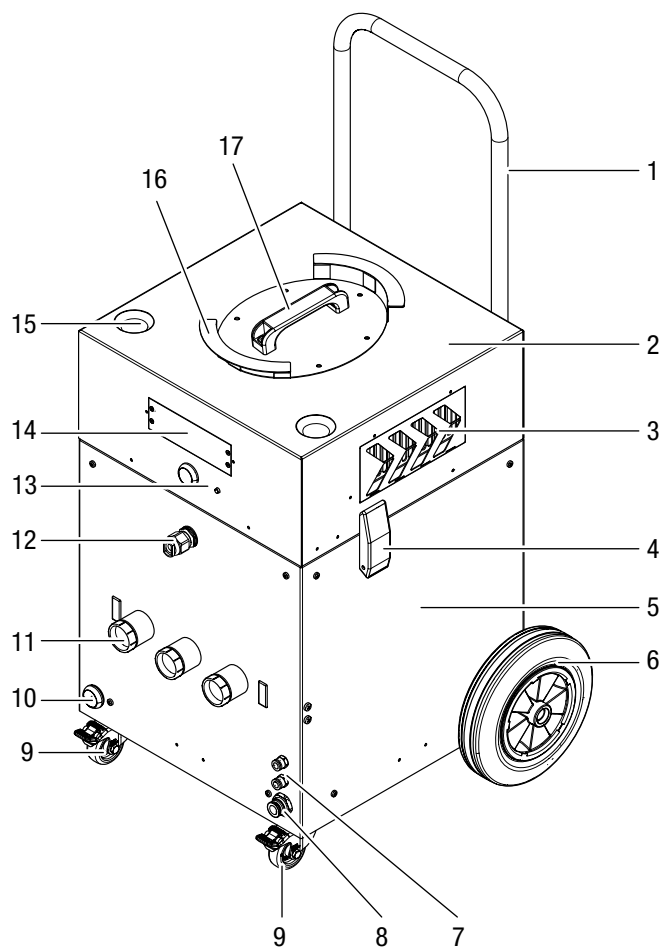
The device is equipped with a touch screen with LC display. Besides giving information on the work stage, air flow rate etc., its background colour changes. Making use of the traffic light system, it indicates how suitable your drying installation is. An optimal air flow rate is indicated by a green background colour during operation. If the display is illuminated in yellow, this means that the installation is OK but the flow conditions for the dry air are not optimal. Drying can be carried out without any difficulties while the display is yellow. A red background indicates an uneconomic operation. The compressor should not be permanently operated in this condition.

Practical benefits:

- The most light, compact and powerful system unit on the market
- 50 % smaller than a comparable MultiQube installation, up to 75 % smaller than constructions from competitors
- 50 % less to carry, lift, stack
- 100 % faster and easier to install, without time-consuming installation of hose connections between the individual components.
- Up to 100 % more working productivity ¹
- Up to 300 % more warehouse productivity ¹
- Flexible filter system using the HEPA filter only if required
- Total weight only 25 kg
- Stackable

¹ With the new Qube all negative time factors can be eliminated in one sweep – this way less devices are needed and moved, stock requirements are reduced, more equipment can be transported to the damage site per tour, less time is needed for set-up and disassembly as well as for cleaning. All in all, your working, space and warehouse productivity can be increased many times over by using the Qube!

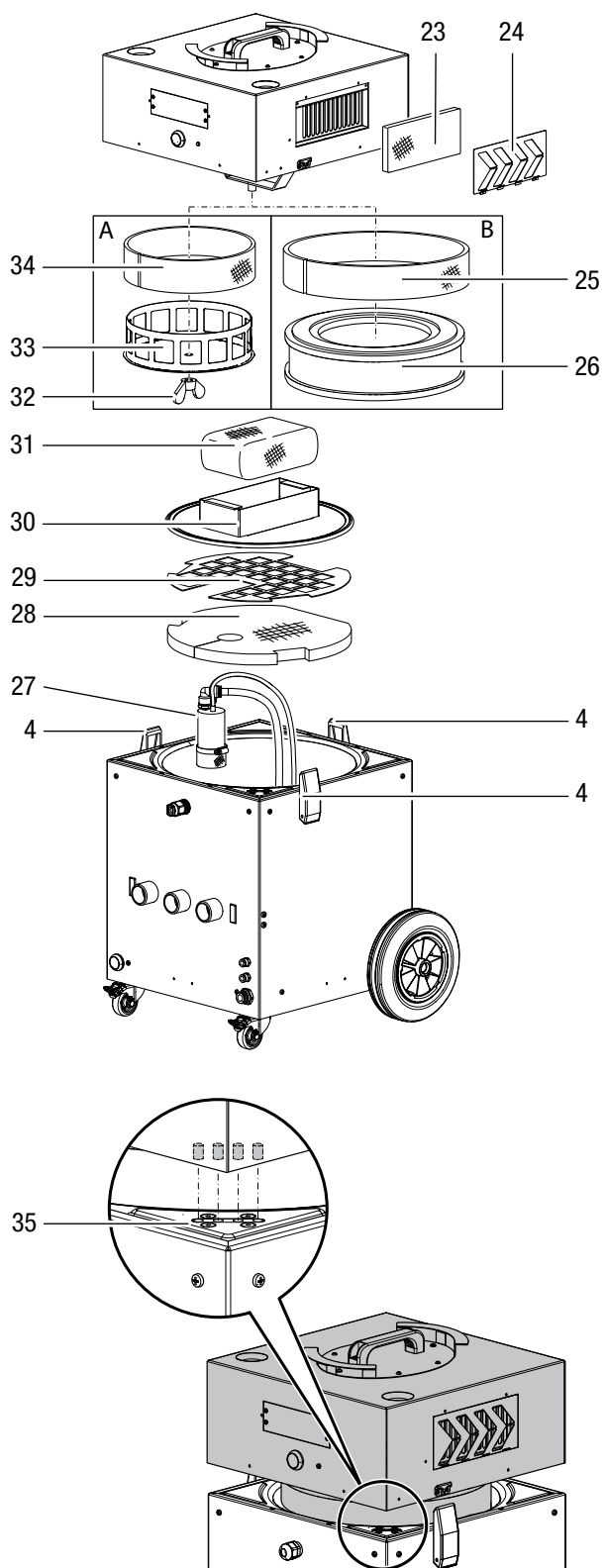
Device depiction



No.	Designation
18	connection for discharge of process air
19	connector 50 mm
20	service power socket
21	holder for storage
22	power cable outlet

No.	Designation
1	transport handle
2	upper part with turbine
3	air inlet for cooling
4	tension lock
5	lower part with pump
6	wheel
7	TTKwic connection
8	water discharge hose connection
9	castor with parking brake
10	residual water draining button
11	hose connectors
12	DA4 sensor connection
13	power button and communication port
14	touchscreen control panel
15	castor retainer (for storage)
16	power cable retainer
17	carrying handle upper part

Schematic detail view with filters

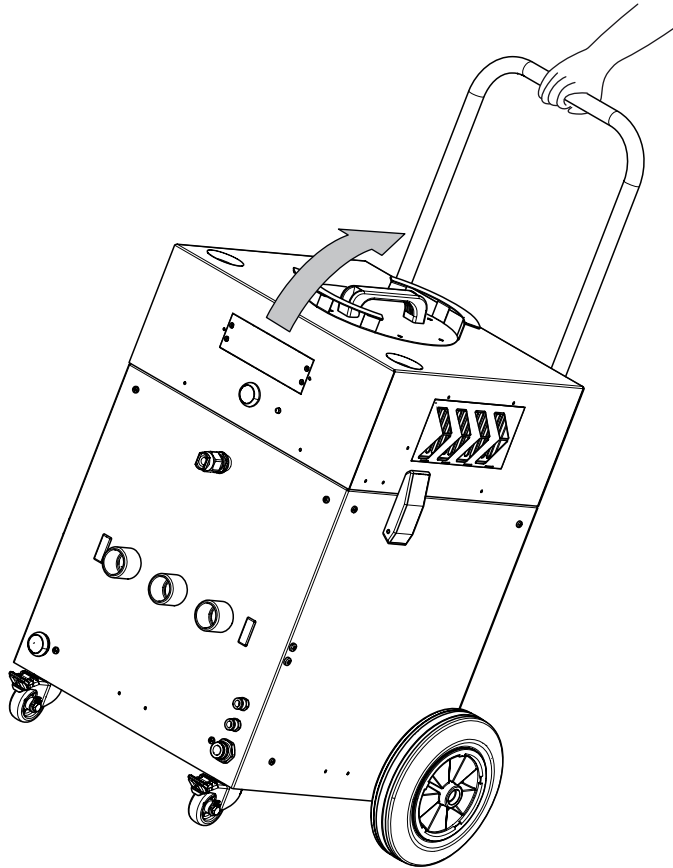


No.	Designation
23	F7 air filter
24	air filter cover
25	F8 filter sleeve (optional)
26	HEPA filter (optional)
27	pump
28	coarse filter
29	coarse filter fixation grid
30	demister holder
31	demister
32	wing nut
33	cage
34	G4 filter sleeve
35	spring contacts for electrical connection

Transport and storage

Transport

To make the device easier to transport, it is fitted with a transport handle and two wheels.

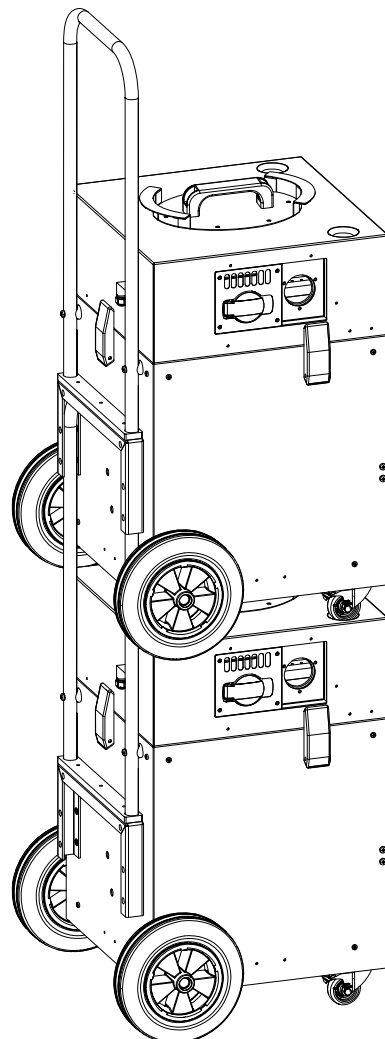


Before transporting the device, proceed as follows:

- Switch off the device at the mains switch.
- Remove the mains plug from the mains socket.
- Drain any residual water from the device.
- Remove the connected hoses and components.
- Prior to every transport check whether the upper and lower part of the device are firmly connected via the tension locks.
- Do not incline the device by more than 45°, for otherwise the device could be damaged.

Storage

The devices can also be stacked on top of one another for storage.



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

- dry and protected from frost and heat.
- protected from dust and direct sunlight.
- with a cover to protect it from invasive dust, if necessary.

Assembly and installation

Scope of delivery and accessories

Accessories and supplies contained in the scope of delivery of the Qube:

Quantity and designation	Art. no.
1 x water separator bottom filter mat	7.160.000.206
1 x G4 filter sleeve	7.160.000.214
1 x F7 Z-line filter for filtering the sucked-in motor cooling air	7.160.000.213
1 x 50 mm hose connection for process air discharge	7.200.000.001
1 x water discharge hose, length 5 m, outside: Ø 8 mm, inside: Ø 6 mm	7.331.000.476
1 x coarse filter fixation grid	7.241.001.245

Further accessories and supplies:

Accessories	Art. no.
38 mm connector	7.200.000.002
HEPA filter module, H13 high-efficiency particulate air filter as per DIN EN 1822-1, filtration efficiency > 99.97 % / 0.3 µm, incl. F8 prefilter sleeve (DIN EN 779)	7.160.000.221
F8 filter sleeve for HEPA filter module, filter class 8 (DIN EN 779)	7.160.000.215
connection cable VX-DA for data transmission to the DA 4 M	7.333.000.015

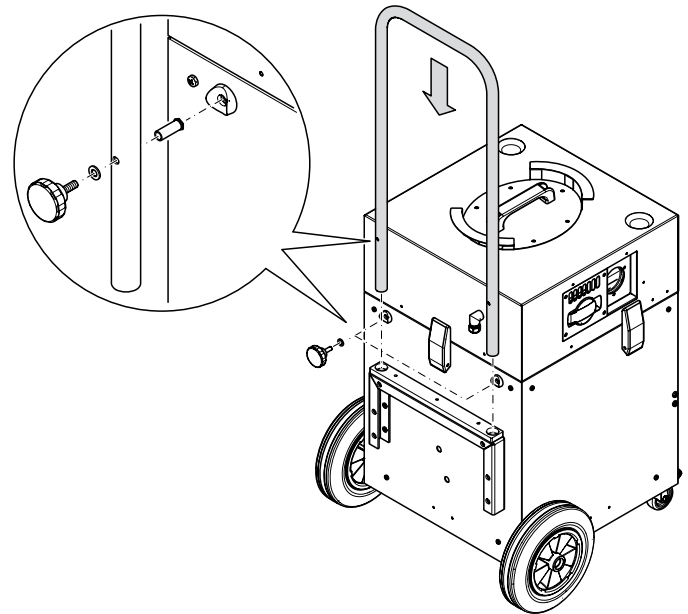
Assembly

Remove the packaging. Remove any transport locks from the supply connections.

Assembling wheels and transport handle

The wheels are already preassembled.

The handle is preassembled. Only the upper part must be put on and screwed tight.

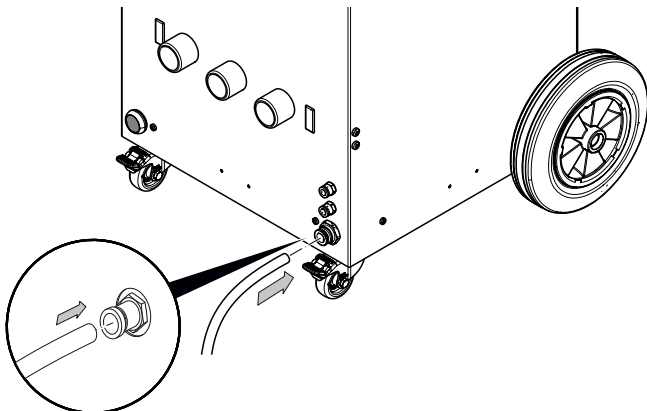


Connecting a water discharge hose

The device must be connected to an appropriate drain or collection container via a water discharge hose so that the device can drain the accumulated water from the water tank if required.

Observe the following when connecting the water discharge hose: **Note:**

- Please note that the collection container must be sufficiently dimensioned. The end of the water discharge hose should not lay in the water.
 - Please note that only unpolluted water may be discharged into the drain.
 - The drain must be able to take the respective water quantity.
 - Height differences of up to 10 m are permissible.
 - Dispose of contaminated water in accordance with the national regulations.
1. Connect the water discharge hose (outside: Ø 8 mm, inside: Ø 6 mm) to the water outlet connector.



2. Guide the other hose end to a drain or collection container.
 - Check the water discharge hose and hose connection for kinks and dirt regularly. If necessary, clean the water discharge hose.

TTKwic quick couplings



Info

As standard, the Qube comes with two integrated TTKwic quick couplings (7), where condensate discharge hoses of up to two dehumidifiers used can be connected. The water is completely discharged centrally via the Qube's water discharge hose.

Note

When using the TTKwic connections of the Qube, please make sure that the Qube is switched on. If the Qube is switched off, the accumulated condensation will not be pumped out and may overflow. If you want to switch off the Qube, you also have to switch off the dehumidifiers connected via the TTKwic.

Setting up the Qube

When setting up the Qube make sure that the warm air generated by the Qube is discharged. The room temperature should not exceed 35 °C. If condenser dryers are operated at temperatures above 35 °C and at high humidity levels permanently, the pressure in the refrigerant circuit will rise. Consequently the compressor will permanently run at its limit, which leads to increased wear and tear.

- If required, ensure that the process air is discharged by connecting a suitable discharge hose to the process air discharge connection (18).
- Provide sufficient fresh air supply by ventilating the room at regular intervals.
- Should the discharge of warm air not be an option, the Qube can also be installed outside of the room to be dried and the hose connection can be established by means of a PlanoPro door gap nozzle (art. no. 6.100.000.160).

Such an installation may look like this, for example:



Start-up

- Use suitable hoses (observe number and diameter) to set up the drying installation.
- Remove the sealing caps at the connectors where you want to connect a hose. If a connector is not needed, the sealing cap must remain on the connector.

Note

Connectors **without** a sealing cap or a connected hose may cause water to escape and thus result in water damages.

Carefully check the connectors before switching the device on.

- For drying operations, only use cables and sockets complying with the regulations. In addition to the 16 A fuse, the socket should also be secured by a 30 mA residual current device (RCD).

Inserting the filters

Check whether the filters have been properly inserted into the device:

- G4 filter sleeve or HEPA filter with F8 filter sleeve (optional)
- demister
- coarse filter (filter mat) with coarse filter fixation
- pump filter



Info

The coarse filter fixation should rest on the coarse filter to prevent the coarse filter from floating unintentionally.

Mains connection

- Plug the mains plug into a sufficiently fused socket.

Switching the device on

Press the power button (42) to switch the device on. The following working stages are available:

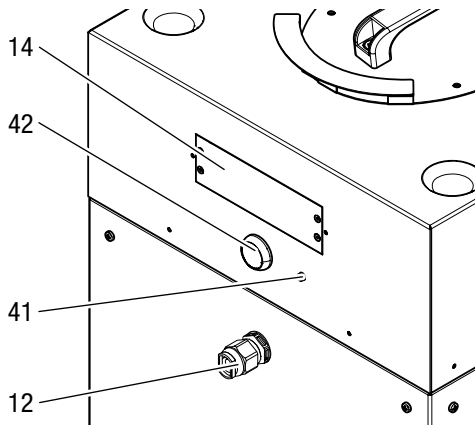
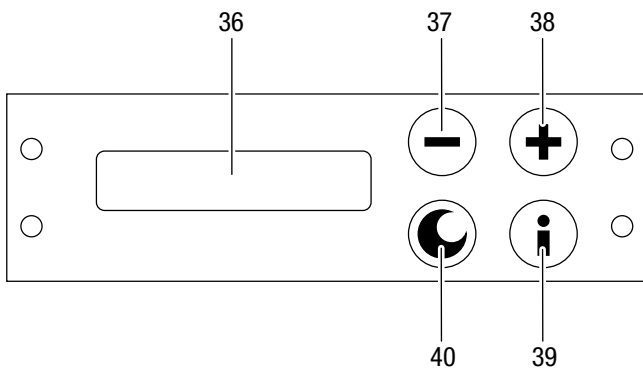
- 3 power stages 1–3
- Stage 4: boost stage
- Whisper mode

Check the installation via the LC display:

- green: optimal air volume flow
- yellow: limit range
- red: air flow rate too low – installation must be optimized

Operation

Operating elements



No.	Designation
12	DA4 sensor connection
14	touchscreen control panel
36	LC display
37	minus button (decrease power stage)
38	plus button (increase power stage)
39	operating hours button
40	whisper mode button
41	communication port
42	power button

Setting the power stage and operating mode

The device comes with 3 power stages, a boost mode and a whisper mode.

The power stages and the boost mode are set via the plus or minus button (37 or 38). In boost mode, the motor runs at its maximum performance.

Whisper mode can be activated by pressing the whisper mode button (40). In whisper mode, the compressor runs with a max. motor power of 60 %, thus reducing the noise emission at night. The night mode is automatically left after 10 h and the compressor starts to run at its previously chosen power stage again. Selecting another stage via the control panel will also stop the night mode.

Displaying operating hours and power consumption

Pressing the operating hours button (39) while the device is switched on allows you to see the number of operating hours and the energy consumption.

Connecting the DA4 (external control unit)

The communication port (41) is used for data transfer to the DA4 control unit. The data may then be forwarded (USB and modem or USB only).

Additionally the internal sensor of the DA4 must be connected via the sensor connection (12).

Emptying the tank

Note:

The water discharge hose must be connected and guided to an appropriate drain or collection container.

Filling level sensors inside the tank control the automatic operation of the pump. Once a certain filling level is reached in the tank, the pump will start to operate automatically:

- The message *!pumpen!* appears on the LC display.
- The pump drains the accumulated water via the connected water discharge hose.
- If the pump cannot drain the water fast enough, the motor turbine will be switched off. The message *!voll!* appears on the LC display. The maximum tank filling level has been reached. The pump drains the accumulated water.
- Once the tank has been emptied, the motor of the turbine will switch back on and the drying operation will continue.

Shutdown

- Press the power button (42) to switch the device off.
- Wait until the motor has come to a standstill.
- Remove the residual water by pressing the button for residual water draining (10).
- Remove any hose connections.
- Reinsert the sealing plugs removed during start-up.

Errors and faults

Note

Overheating of motor electronics
Permanent or repeated overheating may destroy the motor electronics. Avoid overheating the device and provide sufficient air circulation. If necessary, direct the warm air out of the room. Room temperatures above 35 °C are to be avoided during operation.
Also observe the information in the Set-up chapter.

Little or no air is sucked in or blown out:

- Check the installation and add relief openings to improve the air circulation and to operate the compressor within its operating range if necessary.

Motor is not running:

- Check the display. If *!Kontakt!* is indicated, the upper part may not be correctly positioned on the lower part. Check whether the upper and lower part are properly connected to one another.
- Check whether voltage is applied.
- Check the electrical connections and safety installations.

Motor switches off during operation:

The device has been overheated due to improper operation and switched off by the thermal protection. This may be due to the following causes:

- High counter pressure on the outlet side has led to overheating.
- Too strong flow resistance on the suction side has led to overheating in suction mode.
- Wait until the motor has cooled down. Then switch the device back on.
- Check the installation and add relief openings to improve the air circulation and to operate the compressor within its operating range.
- Check whether the air filter of the turbine is soiled or clogged.
- If the room temperature exceeds 35 °C, provide better ventilation. If necessary, guide the warm air out of the room.

Your 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.

Fault messages

The following fault messages may appear on the LC display:

Fault message	Cause	Remedy
<i>!Kontakt!</i>	The electrical contact between the upper and lower part is disrupted. The motor switches off.	Check whether the upper and lower part of the device are firmly connected via the tension locks. Check the contacts of the upper and lower part. Clean if necessary. Make sure that the upper and lower part are aligned.
<i>!voll!</i>	The water tank is full.	None required. The pump drains the accumulated water via the water discharge hose. The motor switches off. The motor will only switch back on and the Qube will only continue to operate once the water has been drained.
<i>!fest!</i>	The pump is blocked and can no longer operate.	Switch off the device, clean the tank and the pump thoroughly.
<i>!trocken!</i>	The pump is in operation but there is no water in the tank.	Switch the Qube off and back on. If the message appears again, check the setting of the water level sensor and clean this area thoroughly.
<i>!pumpen!</i>	The pump drains the accumulated water.	None required. If the pump is to run permanently, the water should be removed with an industrial suction unit in a first step.
<i>!Filter!</i>	The G4 filter sleeve, the F8 filter sleeve or the HEPA filter is clogged.	Exchange the filter sleeve. In case a HEPA filter is used and the message continues to be shown on the display, the HEPA filter itself must be exchanged as well.

Maintenance

Activities required before starting maintenance



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.



Warning of electrical voltage

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

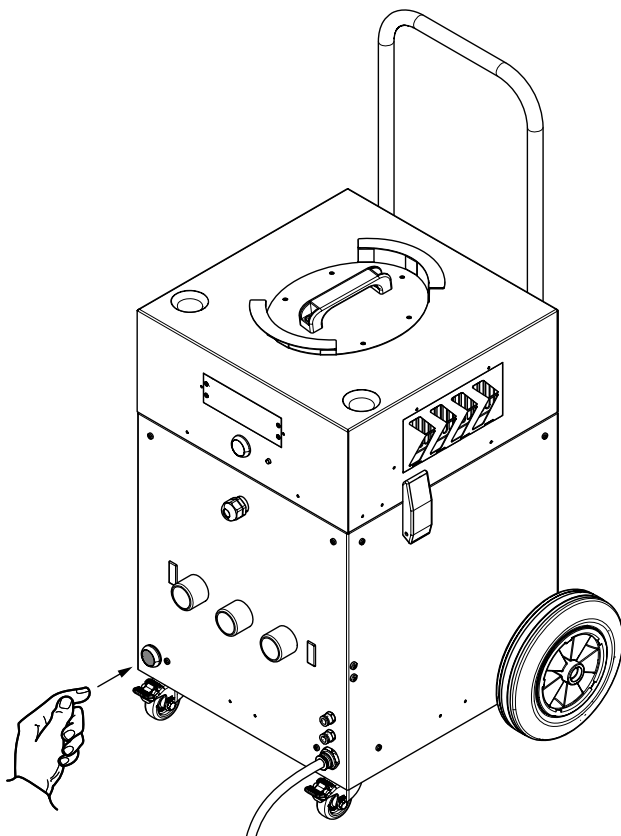
Cleaning the housing

Clean the device with a soft, damp and lint-free cloth. Ensure 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.

Draining residual water

The residual water should always be drained before the device is transported.

1. Press the button for residual water draining to drain the water left in the tank.



Exchanging or removing the water discharge hose

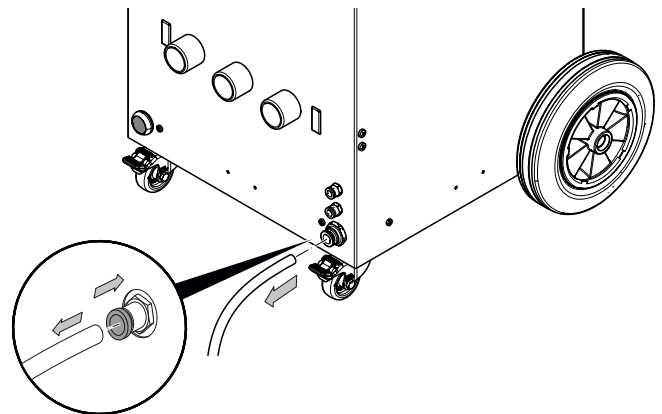
The water discharge hose should be cleaned if dirt is visible.

If there are signs of wear or damage, the water discharge hose should be exchanged.

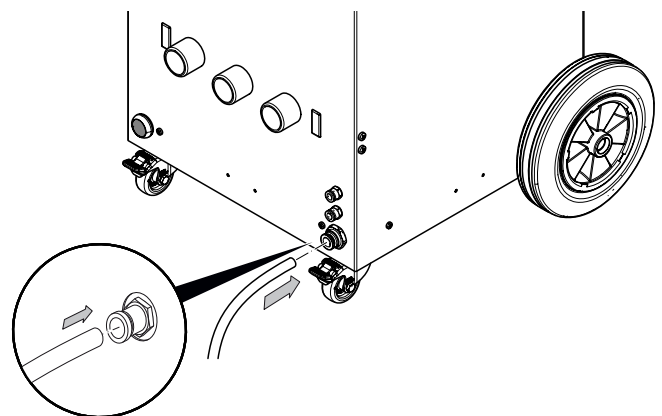
Remove the water discharge hose before transporting the device.

- ✓ The device is switched off and disconnected from the mains.
- ✓ The residual water has been drained.

1. Press the blue ring on the outside of the quick coupling together and at the same time pull the hose.



2. If required, connect a new water discharge hose.



Cleaning or replacing the filters

The filters must be cleaned or replaced as soon as they are dirty.

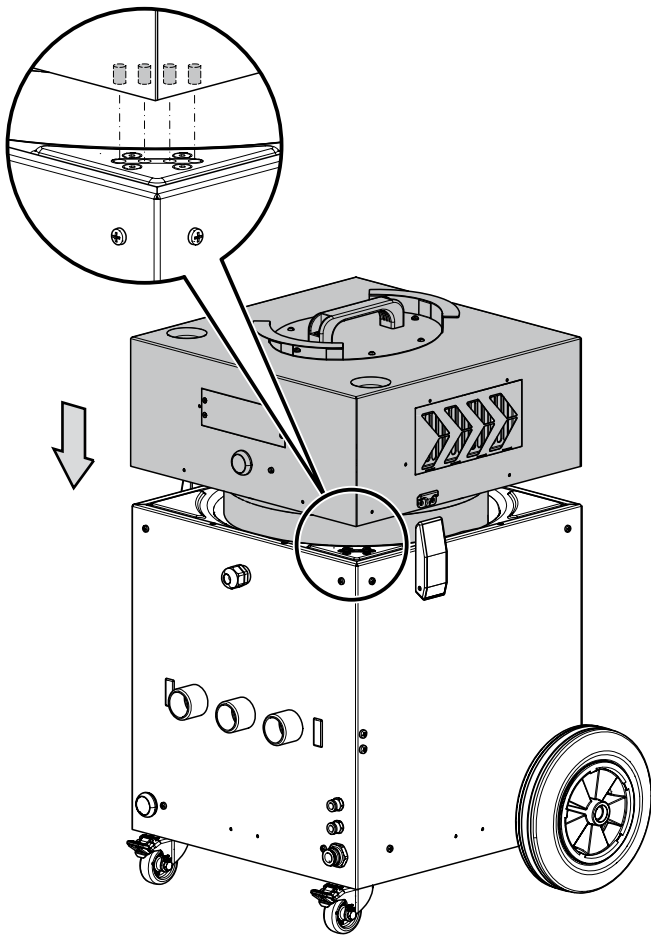
If the **!Filter!** message appears on the display, the filter inside the device (G4 or HEPA filter, or F8 filter sleeve) must be replaced as it does not allow a sufficient quantity of air to pass.

Observe the following **before** cleaning or replacing the filter:

- Press the power button to switch the device off.
- Disconnect the device from the mains.
- Drain the residual water from the tank.

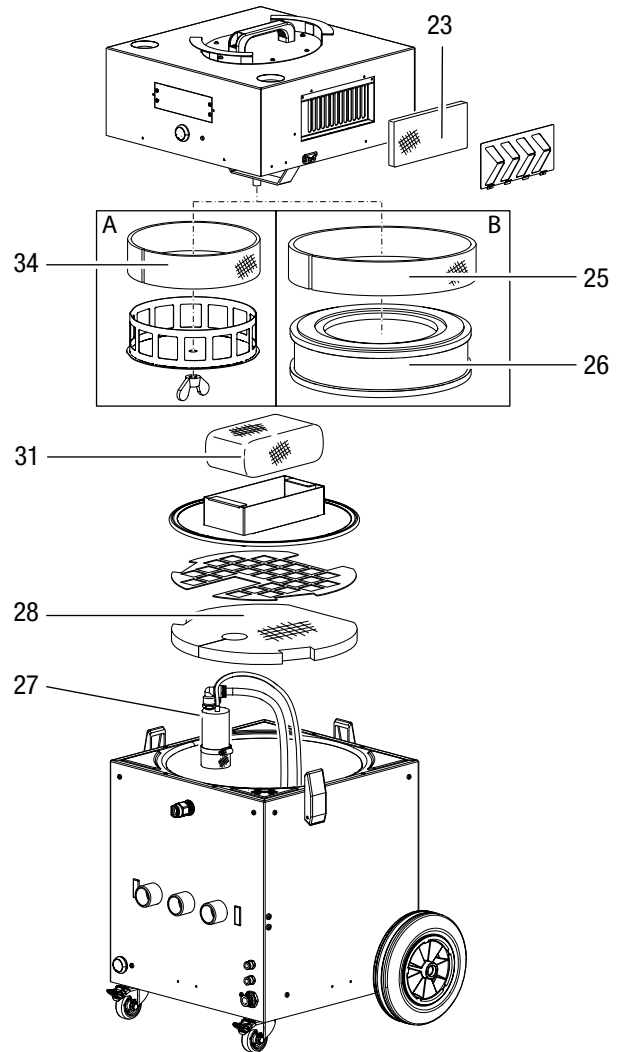
Observe the following **after** cleaning or replacing the filter:

- The upper part must be correctly positioned onto the lower part again. Always make sure that the electrical contacts are properly aligned with one another:



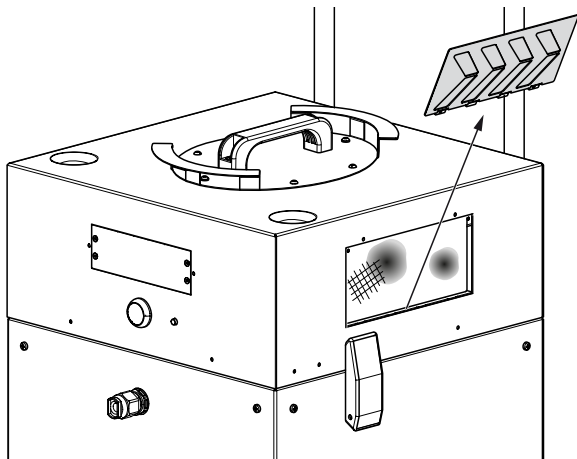
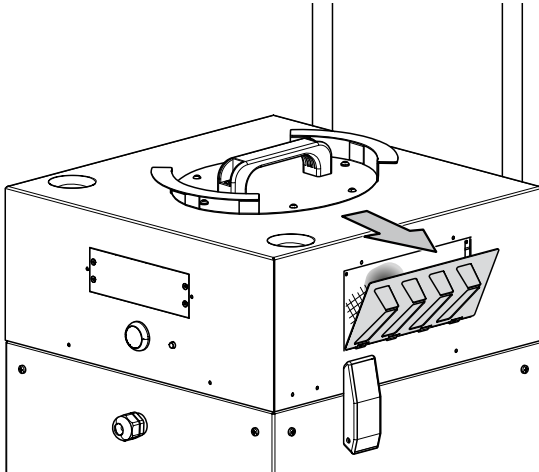
The device is equipped with different filter types:

- G4 filter sleeve (34)
- F8 filter sleeve, optional (25)
- HEPA filter, optional (26)
- demister (31)
- coarse filter (28)
- air filter (23)
- pump filter (part of 27)

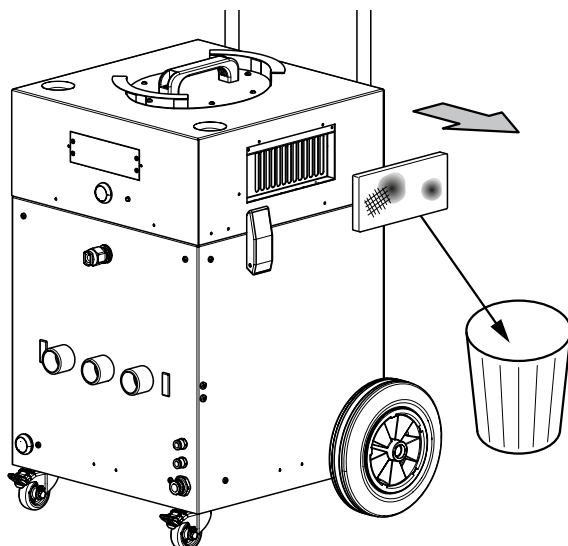


Replacing the air filter

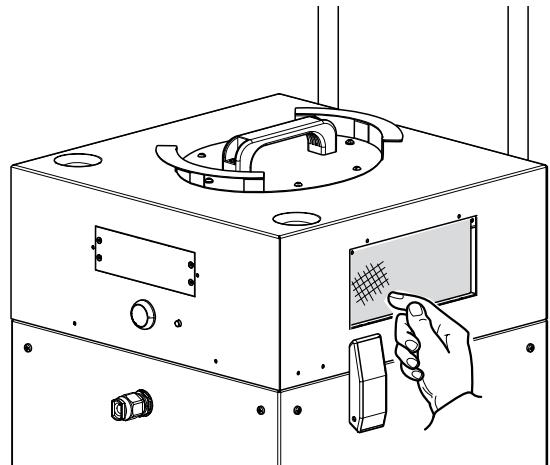
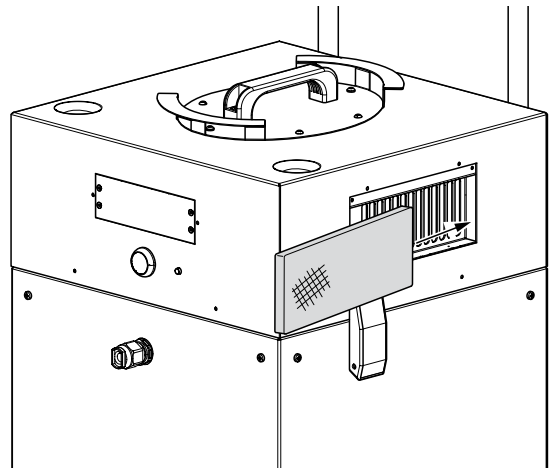
- ✓ The device is switched off and disconnected from the mains.
 - ✓ The residual water has been drained.
1. Remove the cover from the air filter.



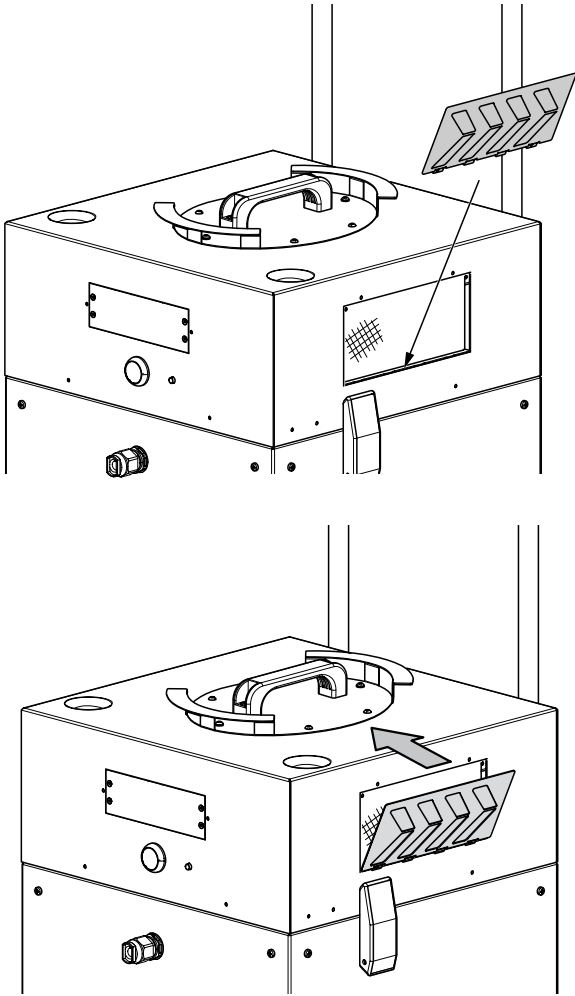
2. Remove the air filter.



3. Install a new air filter.



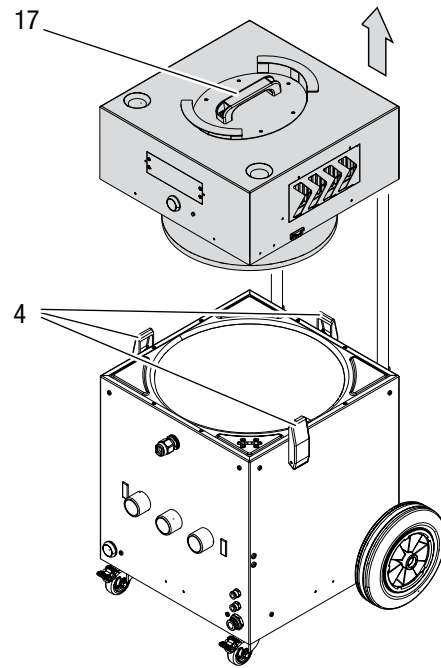
4. Reattach the cover to the air filter.



Replacing the G4 filter sleeve

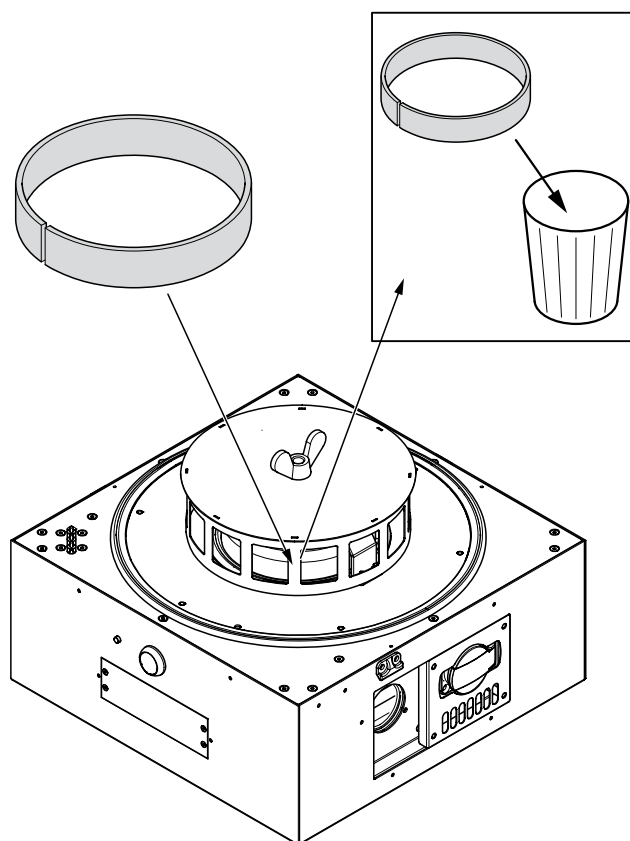
If the *!Filter!* message appears on the display, the G4 filter inside the device must be replaced as it does not allow a sufficient quantity of air to pass.

- ✓ The device is switched off and disconnected from the mains.
 - ✓ The residual water has been drained.
1. Open the 3 tension locks (4).
 2. Lift the upper part at the carrying handle (17) and place it onto a stable base.



3. Turn the upper part so that the bottom side with the filter points upwards.

4. Remove the G4 filter sleeve from the cage.

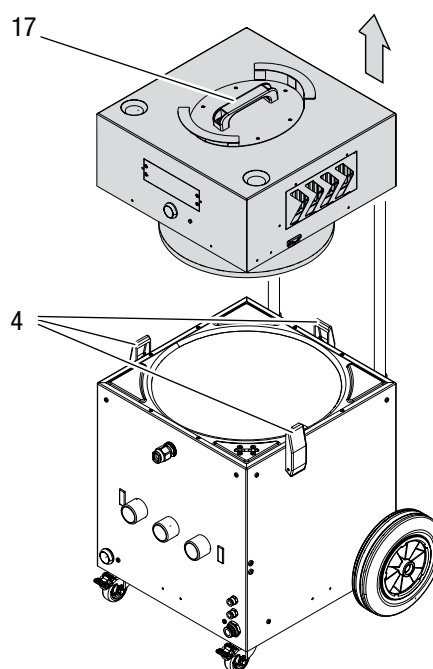


5. Place a new G4 filter sleeve around the cage and close the Velcro® fastener. Make sure that the sleeve surrounds the cage completely.
6. Put the upper part back on the device and close the tension locks. Make sure that the electrical contacts of the upper and lower part are properly aligned with one another.

Cleaning the demister

- ✓ The device is switched off and disconnected from the mains.
- ✓ The residual water has been drained.

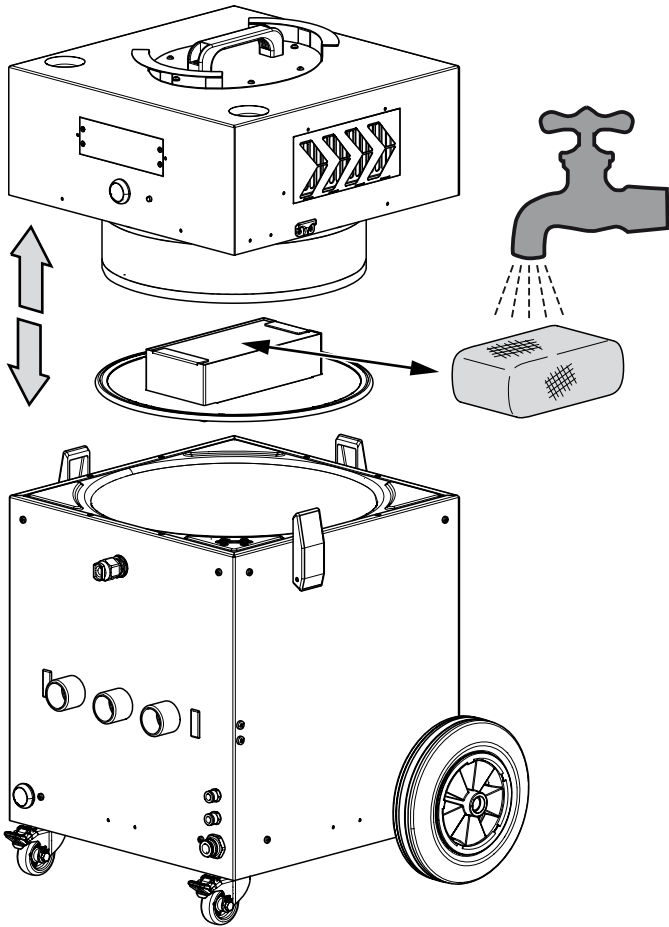
1. Open the 3 tension locks (4).
2. Lift the upper part at the carrying handle (17) and place it onto a stable base.



3. Take the demister out of the holder in the lower part of the device.

4. Rinse the demister under running water.

⇒ Exchange the demister if required (e.g. in case of damages).

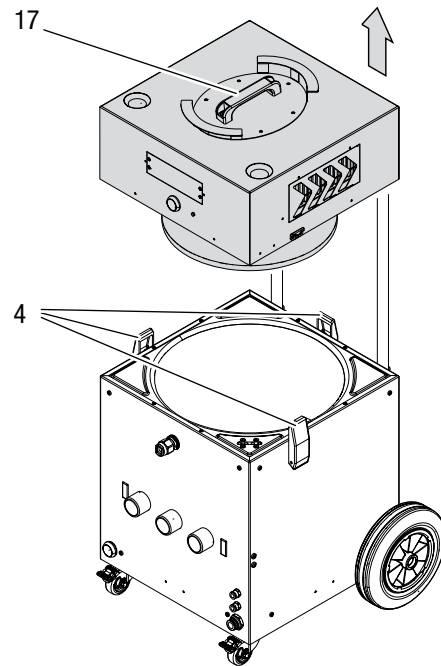


5. Put the demister back into the holder.
6. Put the upper part back on the device and close the tension locks. Make sure that the contacts of the upper and lower part are properly aligned with one another.

Cleaning the coarse filter (filter mat)

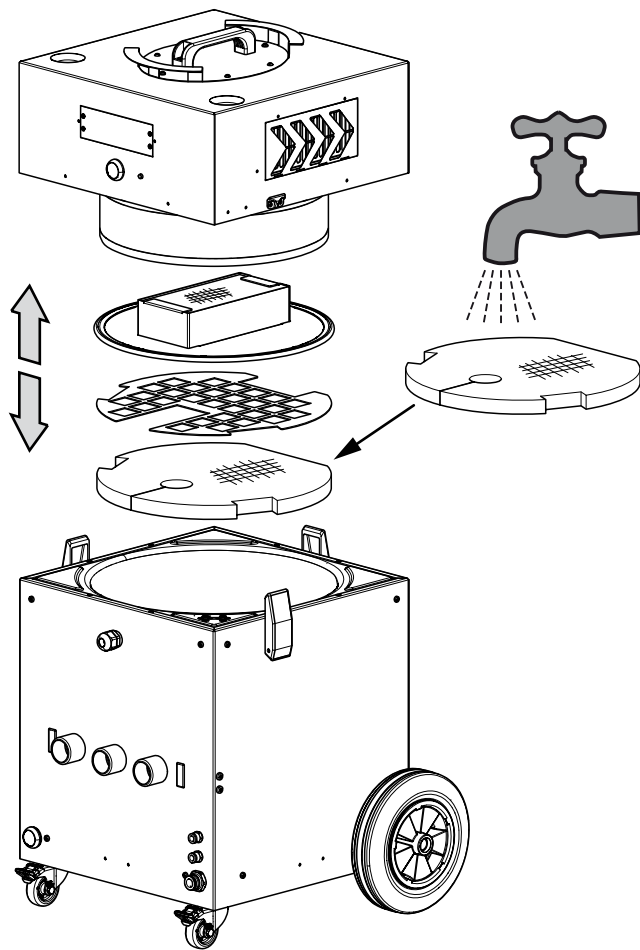
- ✓ The device is switched off and disconnected from the mains.
- ✓ The residual water has been drained.

1. Open the 3 tension locks (4).
2. Lift the upper part at the carrying handle (17) and place it onto a stable base.



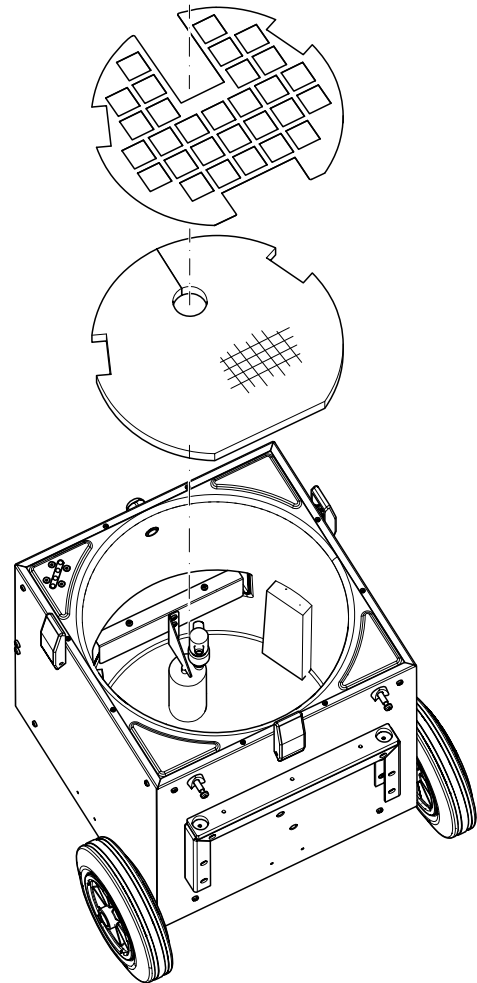
3. Take the demister along with the holder out of the lower part of the device.

4. Take out the coarse filter and the coarse filter fixation.



5. Rinse the coarse filter and the coarse filter fixation under running water.
- ⇒ Exchange the coarse filter and the coarse filter fixation if required (e.g. in case of damages).

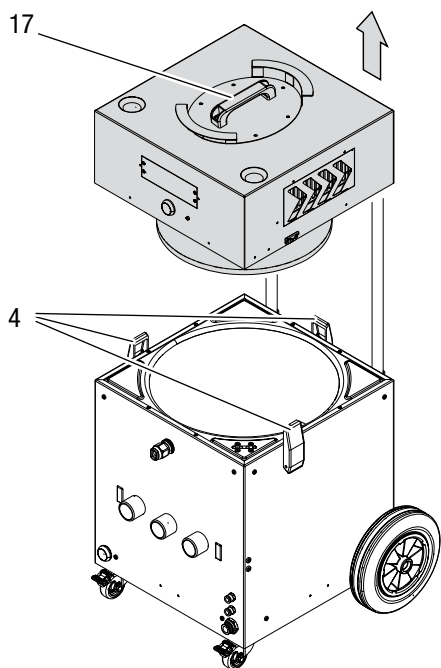
6. Refit the coarse filter and the coarse filter fixation. The coarse filter fixation should rest on the coarse filter.



7. Refit the demister along with the holder.
8. Put the upper part back on the device and close the tension locks. Make sure that the contacts of the upper and lower part are properly aligned with one another.

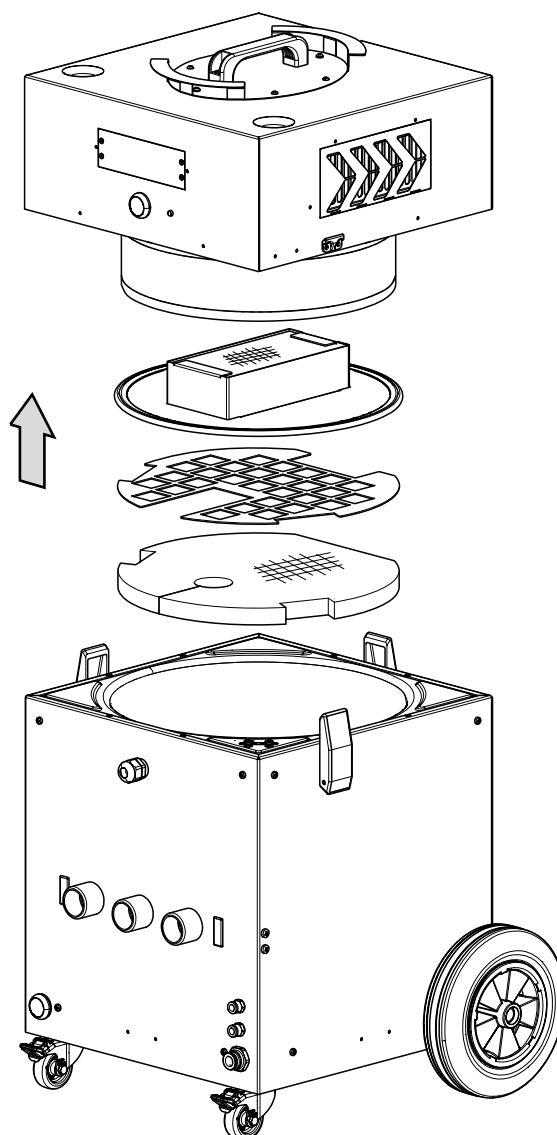
Cleaning the pump filter

- ✓ The device is switched off and disconnected from the mains.
 - ✓ The residual water has been drained.
1. Open the 3 tension locks (4).
 2. Lift the upper part at the carrying handle (17) and place it onto a stable base.

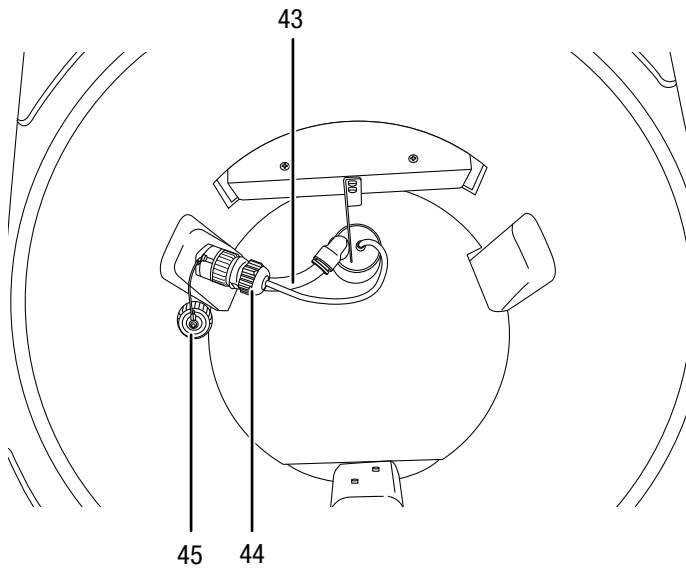


3. Take the demister along with the holder out of the lower part of the device.

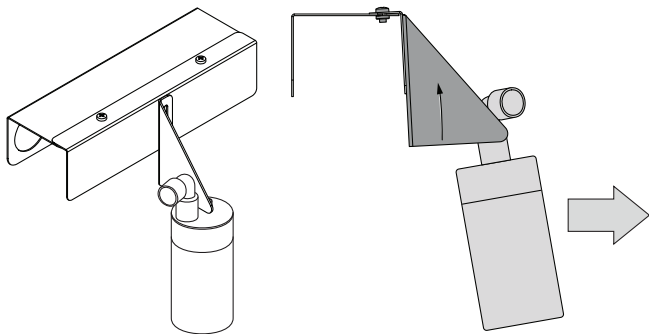
4. Take out the coarse filter and the coarse filter fixation.



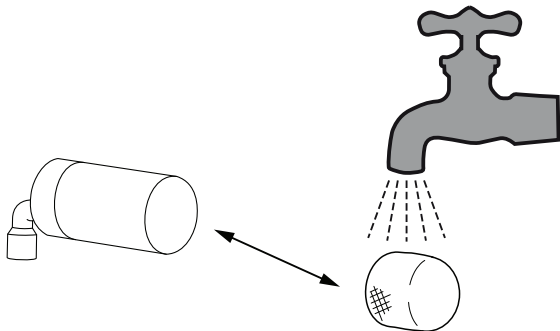
5. Loosen the connecting plug (44) of the electrical connection on the tank wall. Close the cap (45) of the plug connection to avoid contamination.



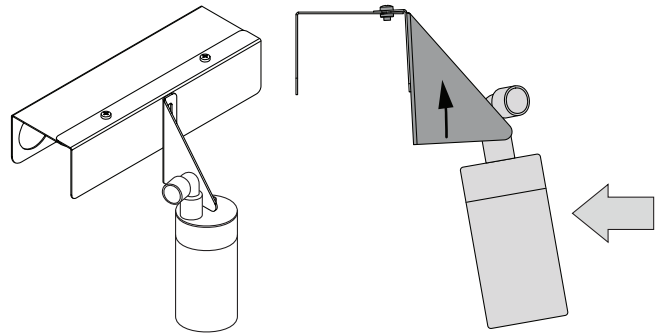
6. Loosen the quick coupling of the hose (43) on the tank wall.
7. Slightly lift the sheet that is fixating the pump.



8. Take out the pump.
9. Detach the pump filter from the pump.
10. Rinse the pump filter under running water.
 - ⇒ Exchange the pump filter if required (e.g. in case of damages).



11. Slightly lift the sheet that is fixating the pump and refit the pump.

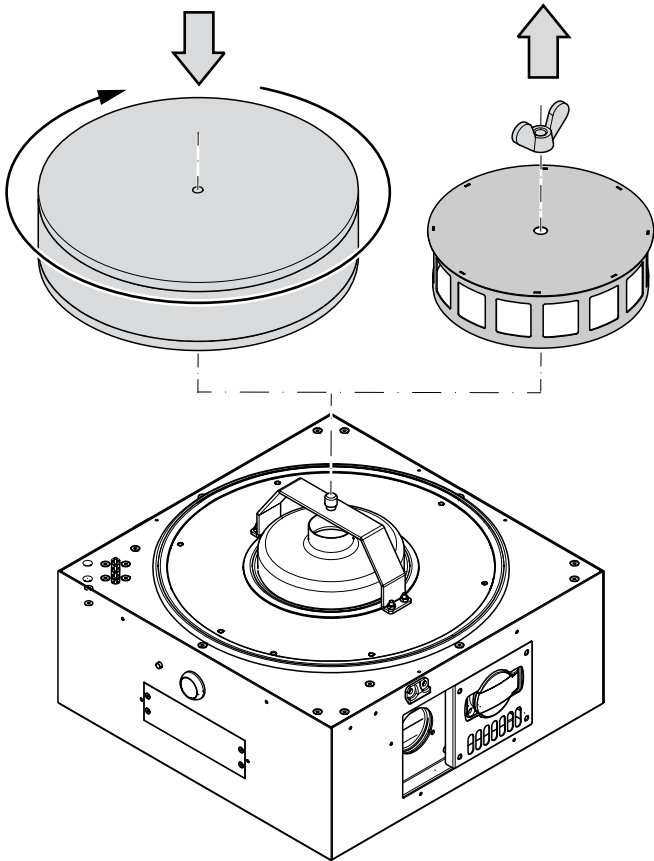


12. Check the pump for tight fit.
13. Plug the hose (43) back into the quick coupling.
14. Open the cap (45) of the pump's electrical connection and put the plug (44) back in.
15. Refit the coarse filter and the coarse filter fixation. The coarse filter fixation should rest on the coarse filter.
16. Refit the demister along with the holder.
17. Put the upper part back on the device and close the tension locks. Make sure that the contacts of the upper and lower part are properly aligned with one another.

Replacing the G4 filter by a HEPA filter (optional)

If required, the G4 filter can be replaced by a HEPA filter.

- ✓ The device is switched off and disconnected from the mains.
 - ✓ The residual water has been drained.
1. Proceed as described in steps 1 to 3 in the chapter Replacing the G4 filter sleeve.
 2. Loosen the wing nut and remove the cage with the G4 filter sleeve.
 3. Screw the HEPA filter onto the upper part.

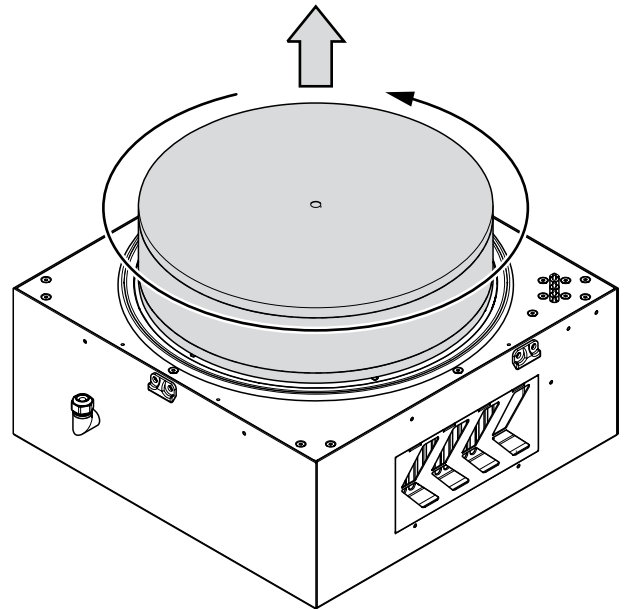


4. Put the upper part back on the device and close the tension locks. Make sure that the contacts of the upper and lower part are properly aligned with one another.

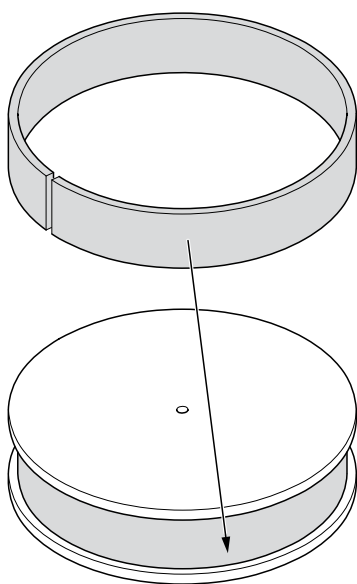
Exchanging the HEPA filter and the F8 fine filter (optional)

If the *!Filter!* message appears on the display, the filter inside the device must be replaced as it does not allow a sufficient quantity of air to pass. Always exchange the HEPA filter on every construction site to prevent contamination. If the *!Filter!* message appears on the display during operation, you can exchange the F8 filter sleeve in a first step. If this is not sufficient (*!Filter!* message continues to be shown), the HEPA filter must be exchanged as well.

- ✓ The device is switched off and disconnected from the mains.
 - ✓ The residual water has been drained.
1. Proceed as described in steps 1 and 2 in the chapter Replacing the G4 filter sleeve.
 2. Turn the upper part so that the bottom side with the HEPA filter points upwards.
 3. Unscrew the HEPA filter from the upper part.

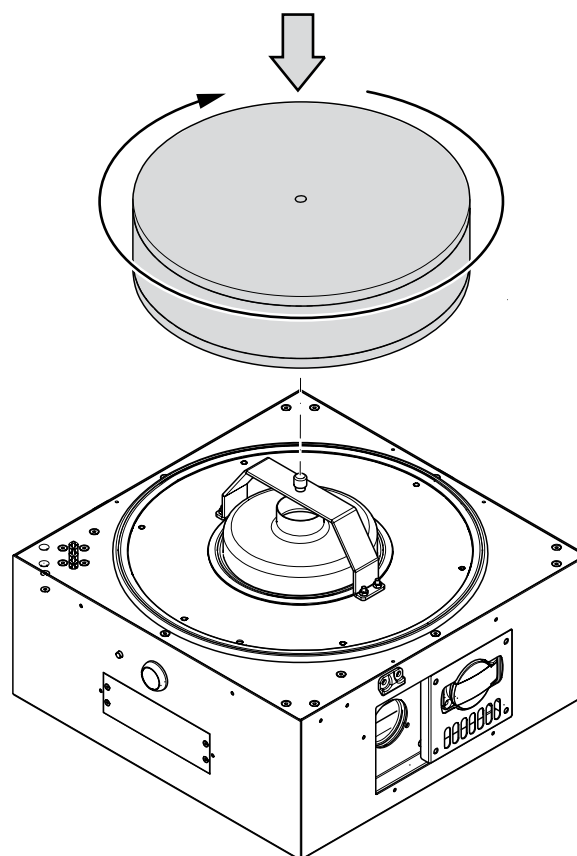


4. Remove the fine filter sleeve from the HEPA filter.



5. Place the new fine filter sleeve around the HEPA filter. Make sure that the sleeve surrounds the filter completely.

6. Screw the HEPA filter back onto the upper part.



7. Put the upper part back on the device and close the tension locks. Make sure that the contacts of the upper and lower part are properly aligned with one another.

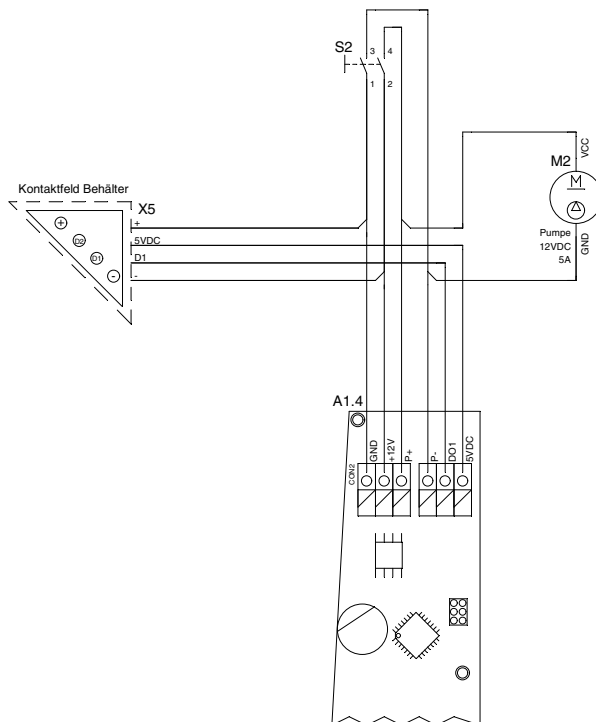
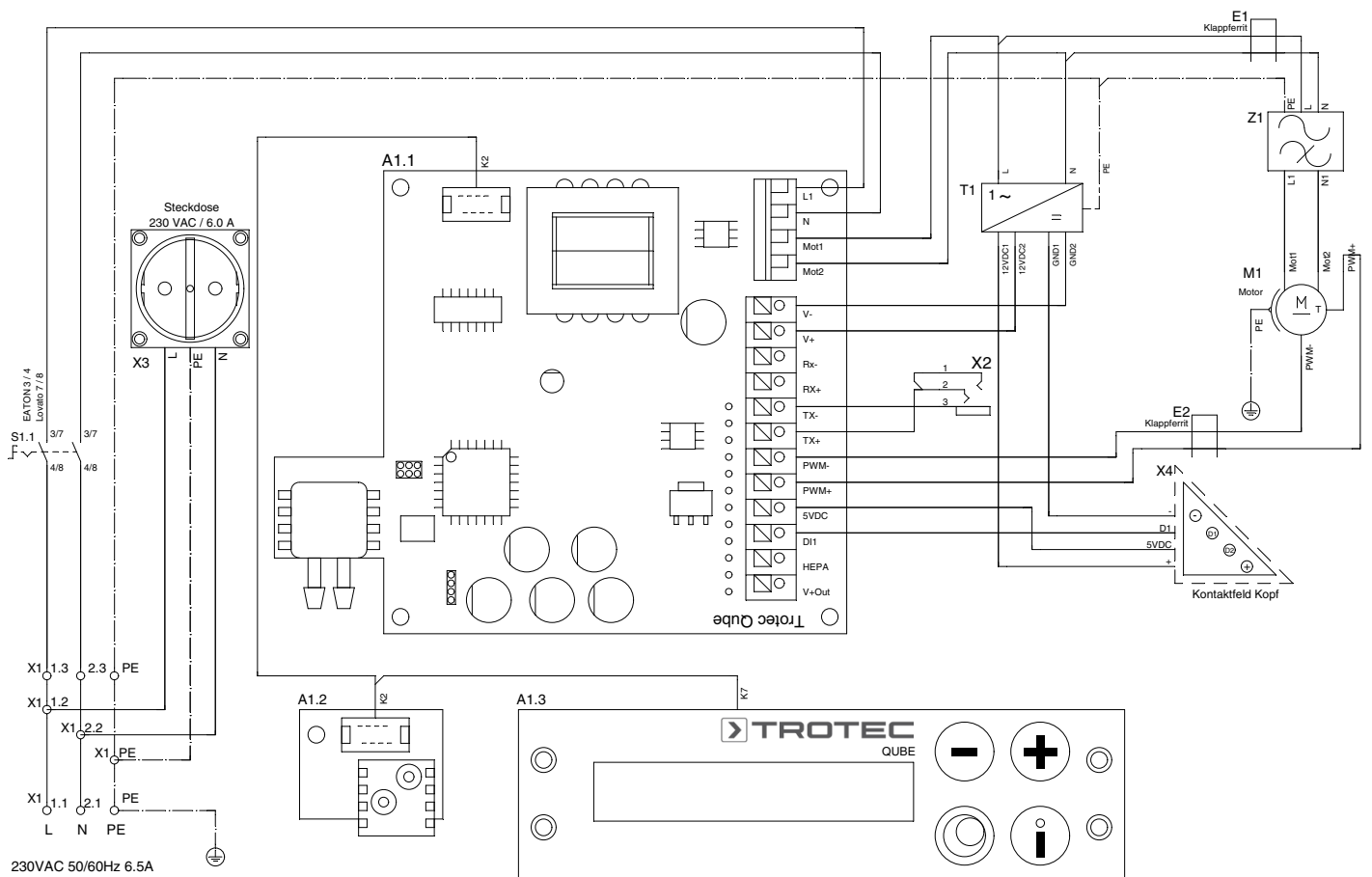
Technical annex

Technical data

Technical data and equipment		Qube
Suitable for surfaces sized up to (low pressure)	power stage 1	25 m ²
	power stage 2	50 m ²
	power stage 3	85 m ²
Maximum pressure (low pressure)		220 mbar
Air flow rate (freely blowing) ¹		250 m ³
Defined volumetric flow optimum (sucking in) of the HiDry automatism	whisper mode	90 m ³
	power stage 1	90 m ³
	power stage 2	140 m ³
	power stage 3	160 m ³
Motor power	whisper mode	0.2 to 0.5 kW
	power stage 1	0.2 to 1.2 kW
	power stage 2	0.5 to 1.2 kW
	power stage 3	0.8 to 1.2 kW
Sound level (3 m distance) ³	whisper mode	48 dB (A)
	power stage 1	60 dB (A)
	power stage 2	62 dB (A)
	power stage 3	62 dB (A)
Volume collection container		10 l
Input voltage		230 V / 50 Hz
Weight		25.2 kg
Dimensions L x W x H (without/with push bar)		490 x 500 x 648/935 mm
Mobility	carrying handle	■
	stackable	■
	rollable	■
	carriage design	■
Hose connections insulation drying		3 x ø 38 mm
TTKwic dehumidifier quick couplings		2 x
Waste water connection		■
DA-4 interface		■
Efidry humidity sensor connection		■
Service power socket		■
50 mm connector for compressed air discharge		■
Residual water draining		■
Overflow sensor with automatic switch-off		■
Baffle plate for coarse filtration		■
Stainless steel demister for water separation and fine filtration		■
Non-wearing touchscreen control panel		■
NT multi-function display		■ ²
Operating hours counter		digital ²
Power meter		digital ²
Plain text status indication		■ ²
Illumination for power control		■ ²
Cable holder with fixable plug		■
Maintenance quick release fasteners		■

¹ maximum air flow rate of the fan motor (not integrated) ² via Optiflow NT multi-function display ³ For measuring the sound pressure level, one 7.5 m hose each is connected to the 3 air inlets of the Qube and guided straight away from the device. At the air outlet, the air escapes freely.

Wiring diagram

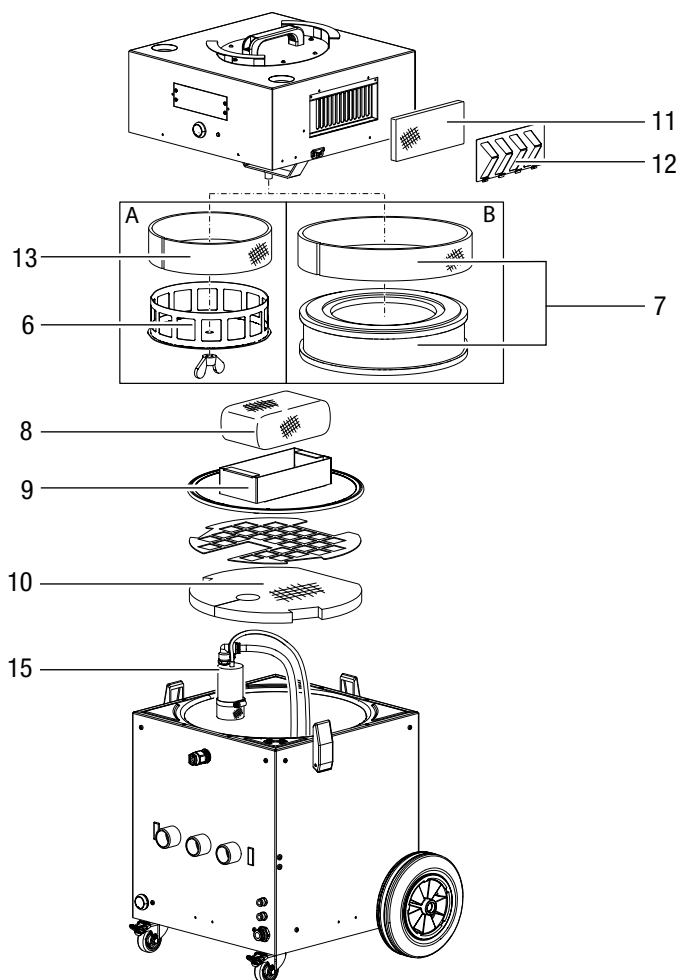
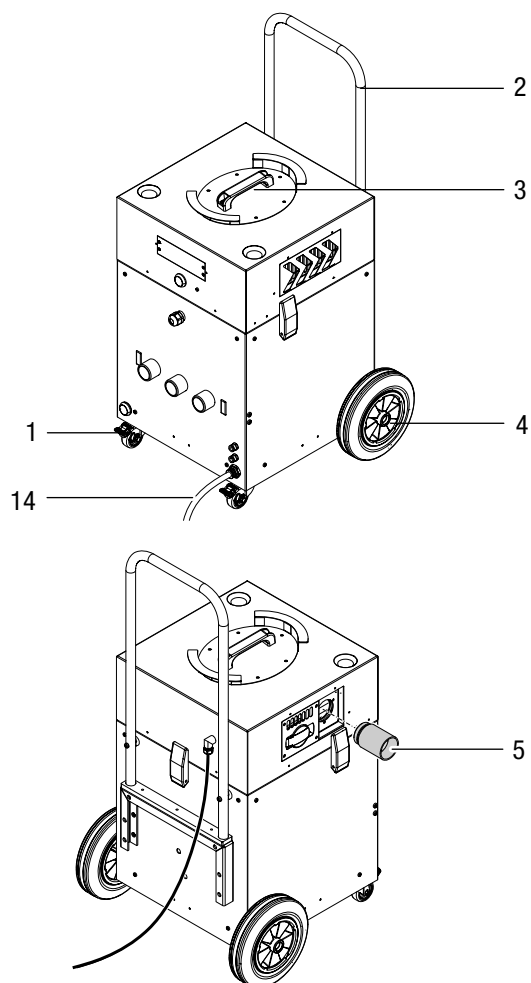


Exploded assembly drawing



Info

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



List of spare parts

Pos. no.	Article number	Designation
1	7.600.000.006	swivel castor 50/19
2	7.310.000.896	handle bar
3	7.310.000.897	handle
4	7.600.000.001	plain bearing wheel 200/50 with black end cap
5	7.200.000.001	connector 50 mm aluminium
6	P10003459	housing Qube filter insert
7	7.160.000.221	HEPA filter module H13 incl. F8 prefilter sleeve
8	P10000203	demister insert
9	P10002223	housing Qube demister holder
10	7.160.000.206	Qube water separator bottom filter mat
11	7.160.000.213	F7 Z-line filter
12	P10003460	housing Qube cover air aperture
13	7.160.000.214	G4 filter sleeve
14	7.331.000.476	water discharge hose (5 m)
15	7.170.001.201	pump with plug

Additional spare parts available on request.

Disposal



■ In the European Union, electronic equipment must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE). At the end of its life, please dispose of this device according to the valid legal requirements.

Declaration of conformity**EC Declaration of Conformity****(Translation of the original)****in accordance with EC Machinery Directive 2006/42/EC****Trotec GmbH & Co. KG**

Grebbener Straße 7

D-52525 Heinsberg

herewith declares, that due to its design and construction, and in the version introduced by us, the following machinery conforms with the relevant fundamental requirements of the listed EC directives.

Important note:

In case of improper use, installation, maintenance etc. or unauthorized changes of the factory-supplied device version, this declaration loses its legal validity.

Device version:	insulation drying unit	
Series:	Qube	
Year of manufacture:	as of 09/2015	
Applicable regulations:	2006/42/EG	Machinery Directive
	2014/35/EU	Low Voltage Directive
	2014/30/EU	EMC Directive
	2011/65/EG	RoHS
Applied harmonised standards:	EN 60335-1: 2012 + AC: 2014	
	EN 60335-2-40:2014	
	EN 55014-1:2012, EN 55014-2:2009	
	EN 61000-3-2: 2015, EN 61000-3-3: 2014	

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