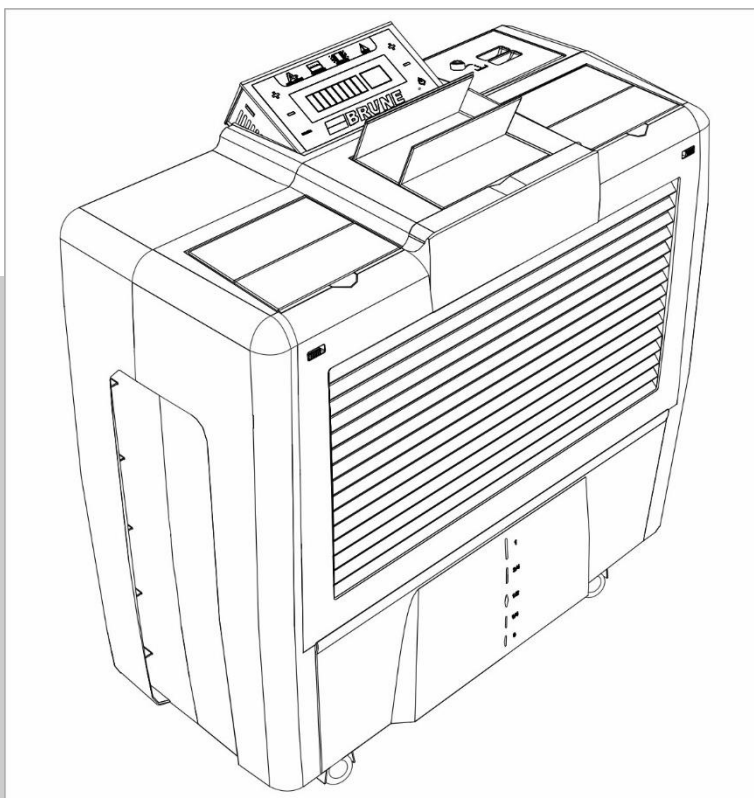


# Operating manual

**Brune B 280**

**Evaporative humidifier**



**BRUNE**



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Original operating instructions  
Prok-25960-EN, 1, en\_EN

## Use and storage of the instructions

Read these instructions carefully before operating the Brune B 280 evaporative humidifier. Failure to follow these instructions may result in injury, damage to the humidifier or the installation site.

Store the instructions carefully and in an accessible place near the appliance. If you pass the humidifier on to a third party, also pass on the operating instructions.

Illustrations in these instructions are provided for basic understanding and may differ from the actual design.

## Information on start up

The prerequisite for safe working is compliance with all the specified safety and handling instructions.

To put the humidifier into operation, it must be connected to the power supply and the water tank must be filled ( ↪ *Chapter 3.3 "Starting up the humidifier" on page 17*).

**The optional connection of the humidifier to the water network must be carried out by a qualified sanitary engineer.**

## Information on cleaning and care

To guarantee optimal operation, the evaporator filter and cleaning filter must be changed regularly. To prevent the occurrence of conditions favourable towards the formation of germs, a regular water change and cleaning of the water container and inner walls of the unit are necessary ( ↪ *Chapter 5 'Cleaning and care' on page 27*).

## Accessories

The following accessories are available for the Brune B 280 evaporative humidifier from Brune Luftbefeuchtung Proklima GmbH:

■ Safety pressure hose (AWS models only)	Order number: 1754
■ Safety collection basin	Order number: 2160
■ Waterfresh	Order number: 9020,9022
■ Descaler	Order number: 9016
■ Cleaning filter	Order number: 6551
■ Evaporation filter	Order number: 6550
■ UV lamp (UV models only)	Order number: 6210
■ UV lamp holder (UV models only)	Order number: 6211
■ Wifi module (optional retrofittable)	
■ Remote sensor system (optional retrofittable)	

## Copyright protection

The contents of these instructions are protected by copyright. Their use is authorised within the scope of using the device. Any other use is not permitted without written authorisation from Brune Luftbefeuchtung Proklima GmbH.

**Customer service**

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## 1 Product description

### 1.1 Overview of the humidifier

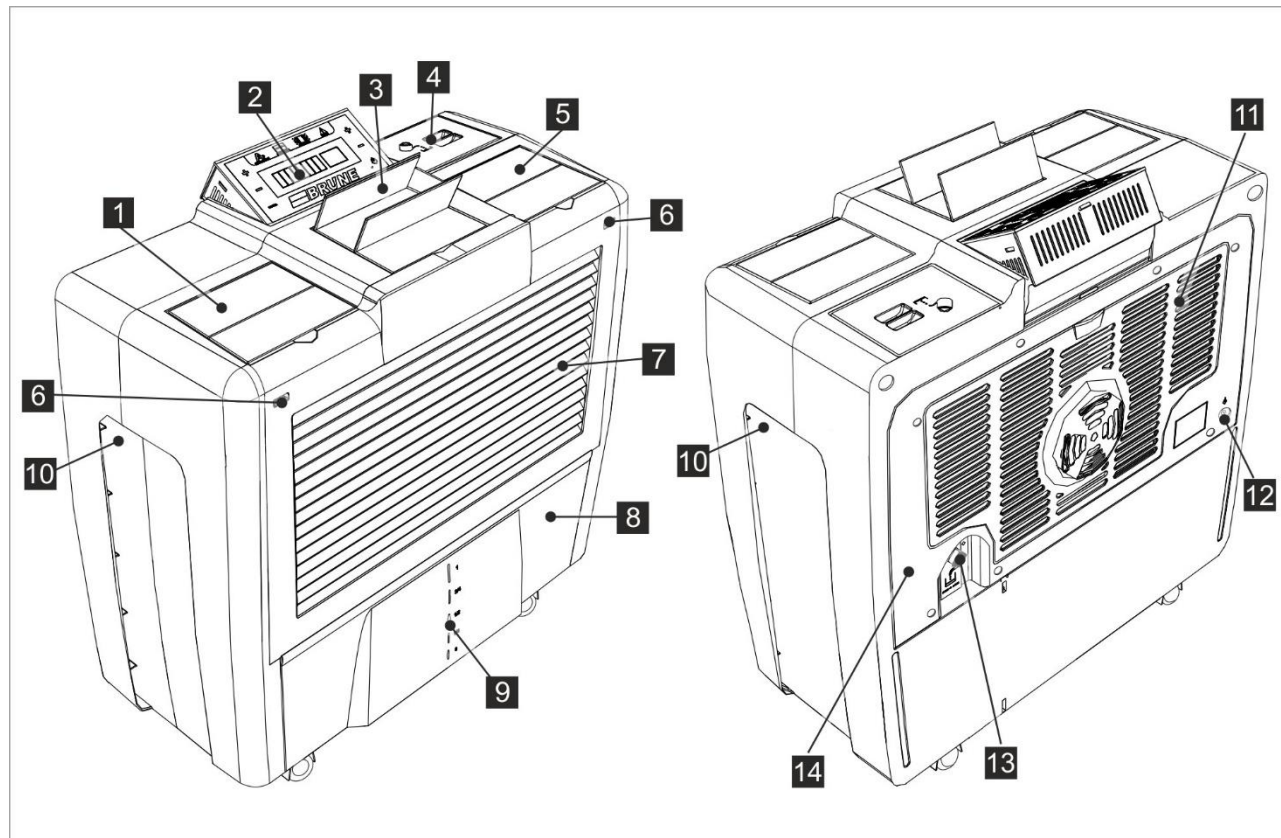


Fig. 1: Overview of the humidifier

- |                              |                                    |
|------------------------------|------------------------------------|
| 1 Ventilation flaps          | 8 Water tank                       |
| 2 Control panel              | 9 Fill level control               |
| 3 Ventilation flaps          | 10 Recessed grip                   |
| 4 Filling flap               | 11 Intake grille                   |
| 5 Ventilation flaps          | 12 Power supply connection socket  |
| 6 Outlet grille locking clip | 13 Water connection solenoid valve |
| 7 Outlet grille              | 14 Rear wall of the housing        |

### Function

The humidifier works on the principle of evaporation. The internal evaporator drum rotates in the water tank and thus absorbs moisture. A fan sucks in room air and humidified air is released into the room. The air flows through the cleaning filter and the evaporation filter. The purified and humidified air is then blown into the room. An optional UV lamp inside the device is designed to reduce germs.

## 1.2 Control and display elements

### Operation

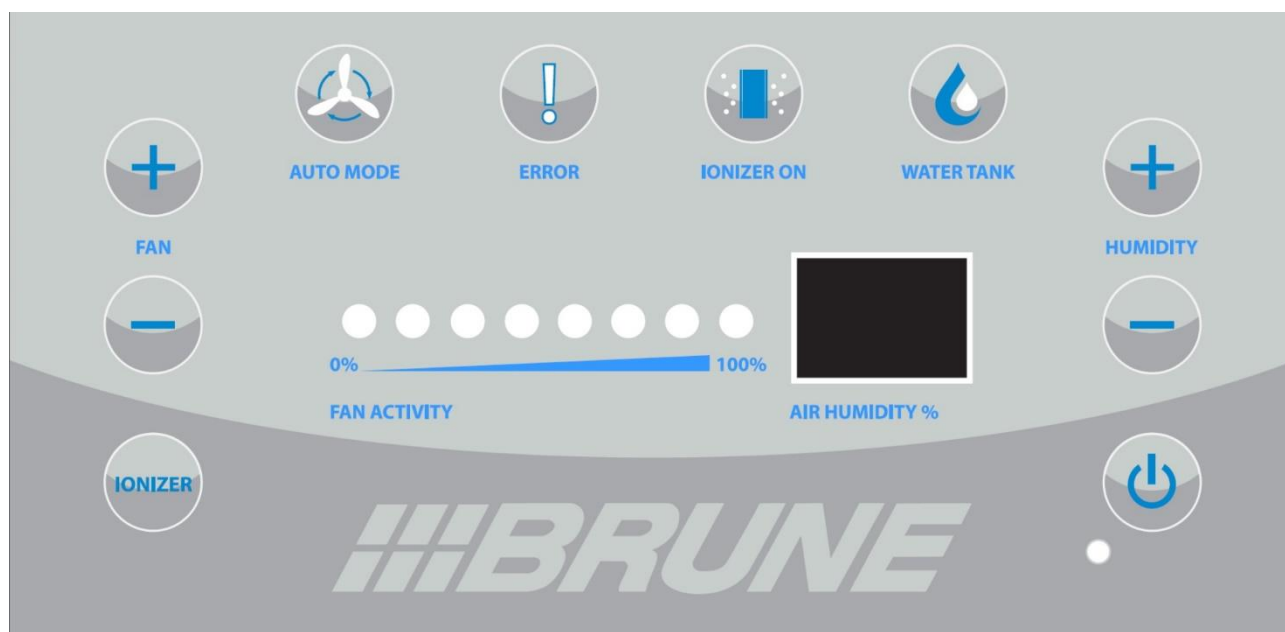








Fig. 2: Control panel

### Control elements

Symbol	Description of the	Operation
	FAN +	■ Increase the fan speed.
	FAN -	■ Decrease the fan speed. ■ Lowest level: switch on automatic mode.
	IONIZER	■ Switch ionisation on/off.
	HUMIDITY +	■ Increase the target value of the relative humidity.
	HUMIDITY -	■ Decrease the target value of the relative humidity.
	STANDBY / ON / OFF	■ Switch on the humidifier. ■ Switch to standby mode. The red LED lights up in standby mode.

## Product description



Technical data

### Display elements

Symbol	Description	Display
	AUTO MODE	■ Red: Automatic mode is running ➔ "Automatic fan mode" on page 18.
	ERROR	■ Red: an error has occurred ➔ "Fault table" on page 39.
	IONIZER ON	■ Red: ionisation function is running ➔ "Switching ionisation on/off" on page 19.
	WATER TANK	■ Red: tank empty. Fill up with water ➔ on page 16. ■ Green: fill level sufficient for operation ■ Green flashing: tank full. Stop filling.
	FAN ACTIVITY	■ Current speed level of the fan ➔ "Setting the fan speed" on page 18
	AIR HUMIDITY %	■ Actual value of the relative humidity
	AIR HUMIDITY % with Button HUMIDITY + or HUMIDITY -	■ Set target value of the relative humidity
	AIR HUMIDITY % with simultaneous illumination of the ERROR	■ Fault number ➔ "Fault table" on page 39

### 1.3 Technical data

Data	Value	Unit
Weight	14	kg
Width	645	mm
Height	665	mm
Depth	295	mm
Tank volume	25	l
Mains connection	100 - 240	V
Mains frequency	50/60	Hz
Power consumption	45	W
DC input, voltage	24	V
DC input, current	2,5	A
Maximum hydraulic pressure with connection to water pipe	0,8	MPa
Minimum hydraulic pressure with connection to water pipe	0,02	MPa
Airflow	max. 500	m³/h
Noise level	32 - 44	dB (A)

#### Operating conditions

Data	Value	Unit
Temperature	10 - 40	°C
Relative humidity	20 - 80	%



## 2 Safety

### 2.1 Symbols in these instructions

#### Safety information

Safety instructions in this manual are identified by symbols. The safety instructions are introduced by signal words that express the extent of the hazard.

**DANGER!**

This combination of symbol and signal word indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**DANGER!****Danger to life due to electric current!**

This combination of symbol and signal word indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury from electric shock.

**WARNING!**

This combination of symbol and signal word indicates a potentially dangerous situation that can lead to death or serious injury if not avoided.

**NOTE!**

This combination of symbol and signal word indicates a potentially hazardous situation which, if not avoided, may result in damage to the environment and property.

### 2.2 Intended use

The evaporative humidifier B 280 serves exclusively to humidify and clean room air. Not for use in medical Facilities suitable!

Intended use also includes adherence to all the stipulations of these instructions.

Any application in excess of the intended use or other use is deemed as non-intended use.

### Hygienic operation

When operating with clean fresh drinking water and maintained as instructed in this manual, the device must be used safely for humidification to ensure the hygienic and proper operation of the humidifier, regular water exchange and regular cleaning is essential. Failure to do so may cause health problems. Therefore, always follow the cleaning instructions and keep your device clean and fresh.

### Storage and recommissioning

Never leave water in the container when the appliance is not in use.

Empty and clean the humidifier before storage.

**Clean the humidifier before the next use.**

## Misuse



### WARNING!

#### Danger of misuse!

Misuse of the B 280 evaporative humidifier can lead to dangerous situations, damage to the appliance or to fixtures and fittings.

- Only fill the humidifier with fresh, ordinary tap water (max. 150 CFU/ml).
- Do not add essential oils or other flammable liquids.
- Only use additives authorised by Brune Luftbefeuchtung Proklima GmbH.
- Do not use any fragrances or flavourings.
- Never cover the appliance.
- Never place objects on the humidifier. This applies in particular to electrical appliances or containers filled with liquid.
- Do not climb or sit on the appliance.
- Do not transport any objects with the appliance.
- Do not use humidifiers in rooms with air containing dust, microbes or chemicals.

## 2.3 Dangers resulting from the humidifier

The humidifier is built according to the state of the art and current safety requirements. However, there are still residual risks that require prudent behaviour. The residual risks and the resulting behaviour and measures are listed below.

### Electric current



#### **DANGER!**

##### **Danger to life due to electric current!**

Contact with live parts of the power supply unit poses an immediate danger to life due to electric shock. Damage to the insulation or individual components can be life-threatening.

- Keep moisture away from live parts. This can lead to a short circuit.
- Always disconnect the mains plug before cleaning and troubleshooting.
- Never immerse the appliance in water.
- Never point the outlet towards electrical appliances or sockets.
- Never touch the mains plug with wet hands. When pulling the mains plug, always pull on the plug, never on the cable.
- Always lay the mains cable so that it cannot come into contact with heat sources, moisture, oil, sharp objects, sharp edges, etc.

### Particular groups of people and children



#### **WARNING!**

##### **Danger for special groups of people and children!**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and/or knowledge.

- Supervise children to ensure that they do not play with the appliance.
- Packaging materials must not be used for playing. There is a risk of suffocation.
- Keep batteries away from children.

### Insufficient cleaning



#### **WARNING!**

##### **Health hazard due to insufficient cleaning!**

Insufficient cleaning can release bacteria and germs.

Dangers resulting from the humidifier

- Replace the evaporation filter after three months at the latest.
- Always adhere to the time intervals for cleaning, filter changes and water changes described in [Chapter 5 "Cleaning and maintenance"](#) on page 27.
- If the room air and water are heavily contaminated, shorten the time intervals accordingly.

### Excessive humidification



#### **WARNING!**

##### **Health hazard due to overhumidification!**

Over-humidified air favours the formation of mould and harmful germs.

- Do not exceed the recommended value of 50 - 60 % air humidity in living spaces.
- To prevent damage to health, people with asthma, respiratory diseases or lung complaints should consult a doctor before using the humidifier.
- Do not place the appliance near furnishings that absorb water, such as curtains, wallpaper and carpets.

### UV lamp



#### **WARNING!**

##### **Risk of injury from mercury in UV lamp!**

Improper transport, operation or improper handling of the UV lamp can cause mercury to escape. Contact with mercury can lead to severe poisoning, skin irritation and eye damage.

- Always handle UV lamps containing mercury with care.



#### **WARNING!**

##### **Risk of injury from UV light!**

UV light irritates and damages the eyes and can cause skin irritation.

- **Disconnect the mains plug before changing the UV lamp.**
- Do not look at the UV lamp when it is switched on.
- In the case of dazzling, sedate the eyes by covering them with a broad, opaque bandage and take the injured person to an eye clinic.

## Batteries



### **WARNING!**

#### **Risk of injury due to incorrect handling of batteries!**

If batteries are handled incorrectly, there is a risk of the batteries exploding or of harmful liquid leaking from the batteries. The liquid can cause skin burns on contact with the skin, severe poisoning if swallowed and blindness on contact with the eyes.

- Never attempt to charge batteries.
- Never short-circuit the contacts (positive and negative terminals) of the battery.
- Never expose batteries to moisture or humidity (rain, salt water, liquids). A damp or wet battery must not be used under any circumstances.
- Never use or store batteries in places where there is a potentially explosive atmosphere or where high temperatures may occur.
- Never attempt to solder, repair, alter the shape of, modify or dismantle batteries.
- Always protect batteries from unauthorised access.
- To avoid fire, overheating, explosion or leakage of liquid, never expose batteries to violent shocks, heavy loads or other harmful effects. Leaking liquid can ignite.
- After eye contact with leaked liquid, immediately rinse the eye, including under the eyelid, with clear water for at least 15 minutes. Direct a mild stream of water directly into the eye and do not rub. Seek for medical attention immediately.
- Avoid skin contact with leaked liquid. In the event of accidental skin contact, rinse the affected skin area with soap and water.

## Unsuitable installation site



### **NOTE!**

#### **Risk of material damage due to incorrect positioning of the humidifier!**

- Only install humidifiers on level, sufficiently stable and moisture-resistant floors.
- Do not place the appliance near furnishings that absorb water (e.g. curtains, wallpaper, carpets).

## 2.4 Environmental protection



### NOTE!

**Danger to the environment due to incorrect handling of environmentally hazardous substances!**

Incorrect handling of environmentally hazardous substances, in particular incorrect disposal, can cause considerable damage to the environment.

- Always observe the information listed below on handling and disposing of environmentally hazardous substances.

### **The following environmentally hazardous substances are used:**

#### **Batteries**

Batteries contain toxic heavy metals. They are subject to special waste treatment and must be handed in at municipal collection points collection points or disposed of by a specialised company.

#### **UV lamps**

UV lamps are hazardous waste and must not be disposed of in normal waste due to their not be disposed of in the normal waste. They must be disposed of by a specialised waste disposal company.

## 3 Transporting and set up

### 3.1 Transport and set up

- Only install humidifiers on level, sufficiently load-bearing, moisture-resistant floors.
- Ensure that the air circulation is guaranteed. The air inlet opening and air outlet opening must not be covered.
- The distance to other objects in the vicinity must be at least 10 cm to the side and at least 20 cm above.
- For optimum function, the appliance can be set up near a heat source. However, the direct exposure to temperature should not exceed 50 °C.

A safety collection basin must be used for water-sensitive floors.

#### Moving the humidifier



Fig. 3: Moving the humidifier



#### NOTE!

#### Risk of material damage due to tipping of the humidifier!

If the humidifier is moved, there is a risk of the appliance tipping over. This can lead to damage to the appliance or the floor.

- Whenever possible, move the humidifier along the longitudinal axis (Fig. 3).
- Always empty the water tank before changing location.

The humidifier has four castors on the underside. To change the location of the appliance, it can be pushed or pulled.

#### Lifting the humidifier



#### WARNING!

#### Danger while lifting the humidifier!

- Always empty the water tank before changing location.
- Only lift the humidifier with two people.

### 3.2 Preparing the humidifier for operation

#### Power supply



Fig. 4: Connecting the power supply

1. ➔ Check the power supply and mains plug for damage.



#### **Damaged connection cable!**

If the mains connection cable of this appliance is damaged, it must be replaced with a special connection cable!

- This is available from the manufacturer or your customer service centre.



#### **NOTICE**

Only use original power supply units approved by the manufacturer!

Type designation: TP06-CBR62368UL or XY60S-2402500Q-UD

2. ➔ Connect the power supply unit to the connection socket (Fig. 4/1) on the humidifier.
3. ➔ Insert the mains plug.
4. ➔ Switch on the appliance ➔ Chapter 3.3 "Starting up the humidifier" on page 17

#### Filling the water tank



Fig. 5: Filling the water tank

1. ➔ Open the filler flap (Fig. 5).
2. ➔ Fill up with water until the WATER TANK indicator lights up green.
3. ➔ Close the filling flap.



#### **NOTE!**

#### **Risk of material damage due to overfilling the humidifier!**

The water tank threatens to overflow if the WATER TANK indicator flashes green and filling continues.

#### Waterfresh (optional)

Additionally, Waterfresh can also be added to the water tank to reduce the formation of germs, algae and calcifications. Observe the dosing, use and disposal instructions on the packaging of Waterfresh.

Waterfresh can be obtained from our customer service ( ➔ "Customer service" on page 4).

Order number:

- 1l bottle: 9020
- 5l canister: 9022





## NOTE!

### Environmental damage caused by biocides!

The biocides contained in Wasserfrisch are harmful to the environment in large quantities.

- Use biocides carefully.
- Obtain information on environmentally friendly disposal from the local municipal authority or specialised disposal companies.
- Always read the labelling and product information before use.
- Safety data sheet can be requested.

## Water connection (optional)

As an alternative to filling the water tank manually, the humidifier can be connected to the mains water supply. Have the humidifier connected via the solenoid valve on the back by specialised sanitary personnel.


## Additional safety equipment

To reduce the risk of material damage, the following safety accessories are recommended:


- Safety collection basin
- Safety pressure hose (AWS appliances)

## 3.3 Starting up the humidifier

### Switch on the humidifier

- ➔ Press the STANDBY button .
- ⇒ Humidifier is switched on.

### Standby

- ➔ Press the STANDBY button .
- ⇒ Humidifier is on standby. The red LED lights up in standby mode.

### Switch off

To switch the humidifier off safely during maintenance or long-term shutdown:

- ➔ Pull the plug.
- ⇒ Humidifier is switched off.

## Excessive humidification



## WARNING!

### Health hazard due to excessive humidification!

Over-humidified air favours the formation of mould and harmful germs.

- Do not exceed the recommended value of 50 - 60 % air humidity in living spaces.

### Setting the relative humidity

The target value for the relative humidity can be set in the range from 20 % to 90 %.

- ➔ Use the HUMIDITY+ and HUMIDITY- buttons to set the desired target value for the relative humidity.
  - ⇒ The AIR HUMIDITY % display shows the selected value.

### Setting the fan speed

The air flow rate and thus the humidifier output can be adjusted via the fan speed, for example: select a higher speed level for large rooms.

- ➔ Use the FAN+ and FAN- buttons to set the desired fan speed level.
  - ⇒ The FAN ACTIVITY display shows the selected speed level.

The humidifier runs at the selected fan speed until the selected setpoint value for relative humidity is reached.

### Automatic fan mode

In automatic mode, the humidifier automatically regulates the fan speed depending on the power requirement until the desired relative humidity value is reached.

- ➔ Select the target value for the relative humidity using the HUMIDITY+ or HUMIDITY- buttons.
- ➔ Press the FAN button repeatedly until the AUTO MODE indicator lights up.
  - ⇒ Automatic mode is switched on.
  - ⇒ Zum Press the FAN button once to exit automatic mode and accept the changed settings





### Switching the key lock on/off

- ➔ To switch on the key lock, press and hold the HUMIDITY+ and HUMIDITY- buttons until "88" appears on the display.
  - ⇒ The key lock is activated.




- ➔ To switch off the key lock, press the HUMIDITY  $\oplus$  and HUMIDITY  $\ominus$  buttons simultaneously until the "88" display goes out.
  - ⇒ The key lock is switched off.


### Switching ionisation on and off

Ionisation purifies the room air. Ions occur in nature as positively or negatively charged particles. The ion concentration and the ratio between positively and negatively charged ions are decisive for air quality. Polluted air in living and working spaces is low in negatively charged ions. Ionisation causes negatively charged ions to be emitted, which combine with dust particles to form clusters and are retained in the filter.

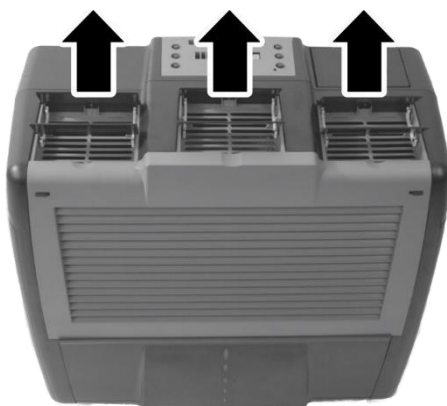
- ➔ To switch on ionisation, press the IONIZER button  .
  - ⇒ Ionisation is switched on. The IONIZER ON indicator  lights up.
- ➔ To switch off ionisation, press the IONIZER button  .
  - ⇒ Ionisation is switched off. The IONIZER ON display  goes out.

### Activation/deactivation of the Signal tone

Switch off the device using the standby button  . Now press the standby button  and hold it down for 5 seconds until "Ad" appears on the display  . Now use the FAN button  $\oplus$  to switch to the "b1/b0" submenu. Now press the HUMIDITY button  $\ominus$  to activate (b1) or deactivate (b0) the acoustic signal.

Once the settings have been made, exit the menu by pressing the standby button  .

### Ventilation flaps



- ➔ Open the ventilation flaps on the top of the appliance to allow better distribution of the humidified air in the room (Fig. 6).

The function of the humidifier is also guaranteed when the ventilation flaps are closed.

Fig. 6: Opening the ventilation flaps

Putting the wireless sensor system into operation (optional accessory)

### 3.4 Putting the remote sensor system into operation (optional accessory)

#### Humidity measurement

The wireless sensor system measures the relative humidity in the room and transmits this to the humidifier by radio. This enables a more accurate measurement than with the sensor built into the appliance, where the humidity inside the appliance can lead to deviating measurement results.



*We recommend using the wireless sensor system if precise control of the relative humidity is required.*

#### Commissioning the wireless sensor system



Fig. 7: Opening the cover

1. Carefully lift and remove the cover of the wireless sensor system using a small screwdriver (Fig. 7).

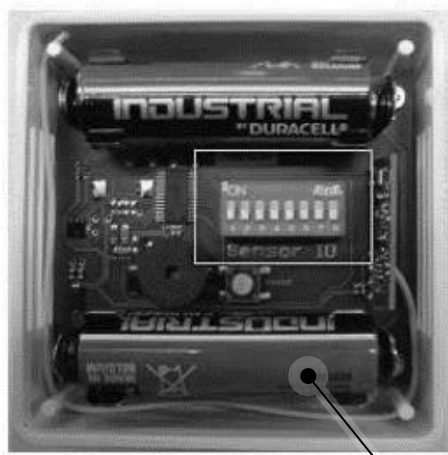


Fig. 8: Inserting the batteries

1

2. Insert the supplied 1.5 V AA batteries as shown (Fig. 8/1). The plus and minus poles are marked both on the circuit board and on the battery. The batteries are inserted correctly if these markings match.

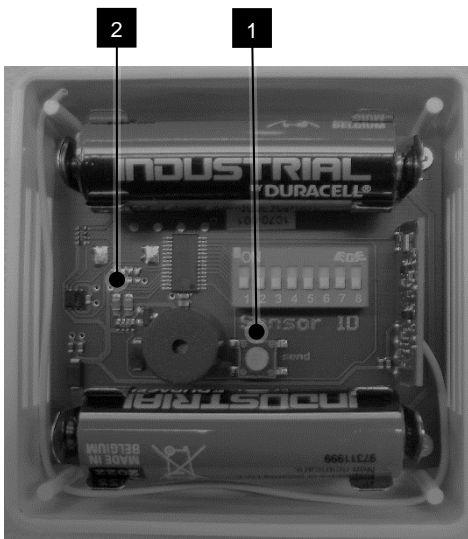



Fig. 9: Check functionality

**3.** → Check the wireless sensor system for functionality. To do this, press the button (Fig. 9/1).

- ⇒ If the LED (Fig. 9/2) lights up briefly, the wireless sensor system is ready for operation. If the wireless sensor system emits a short signal tone at regular intervals during operation, replace the batteries.



*It can take up to three minutes before the device has received a signal from the wireless sensor. The display shows "--" during this time.*

- ⇒ The Devices are supplied from the factory with the coding "00".
- ⇒ The actual value of the relative humidity of the AIR HUMIDITY %  changes as soon as you breathe into the sensor.

If the relative humidity value does not change, check the batteries and coding.

### Possibilities of coding

The humidifier and the wireless sensor system are synchronised via a code. The devices are supplied from the factory already coded. When using two or more devices that are in close proximity to each other (0 - 20 m), however, a different coding may be necessary. You will find a coding table in the appendix on page 42 to help you.

If several devices are operated in one room, the following options are available:

- Several devices are operated with one sensor. To do this, all devices must have the same coding.
- Each device is controlled via a separate sensor. To do this, all devices must be coded differently.

### Coding radio remote sensor

The sliders for the coding can be found on the circuit board of the wireless sensor system. There is only one position per slider: "ON = top" and "OFF = bottom". In the coding table, "ON = top" is equated with "1" and "OFF = bottom" with "0".

The coding you have set can be read out on the device.



*The coding of the humidifier and the corresponding wireless sensor system must match exactly. Otherwise the function is not guaranteed.*

### 3.5 Coding the remote sensor system



Fig. 10 Coding switch for coding



#### NOTE!




#### Material damage due to short circuit!




Only encode the wireless sensor system with a non-metallic object.


1. ➔ Code the wireless sensor system by adjusting the sliders with a suitable, non-metallic object.
2. ➔ Confirm the coding by pressing the small button. This can then be read out and selected on the device.
3. ➔ Close the cover of the wireless sensor system again.

### Selecting the menu

You can make various settings for your humidifier in this menu. An overview of the possible settings can be found on page 40 in chapter 7 "Menu overview".

Switch off the device using the standby button . Now press the standby button  and hold it down for 5 seconds until "Ad" appears on the display .

You can now select the desired menu by pressing the **FAN button** . Use the **HUMIDITY button**  and  to change the settings in the menus.

Once the settings have been made, exit the menu by pressing the standby button .

## Coupling the radio humidity transmitter with the humidifier

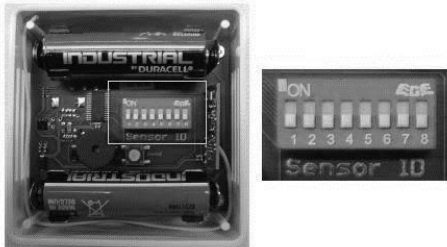



Fig. 12: Coding the humidifier

**Ad menu:** This is where you pair the radio humidity transmitter with the device. You can choose between 256 address codes here. The setting is made on the radio humidity transmitter using the 8-digit coding switch. The corresponding address code in the device can be found in the enclosed coding table on page 42.

Use the **HUMIDITY** button  and  to select the desired radio coding.

For better orientation, radio humidity transmitters located within range transmit your current coding to the device. You can recognise this by a short beep and two flashing dots in the display next to the address code.

**Attention: If several radio humidity transmitters are within range, different codes are displayed.**

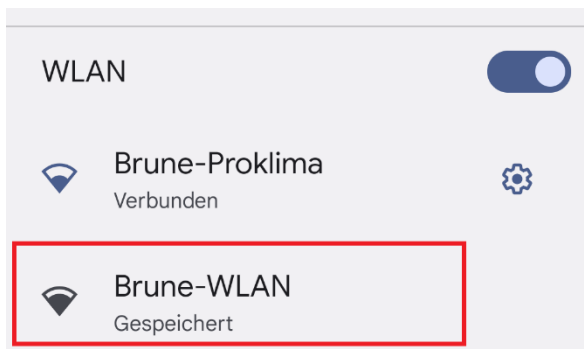
Once the settings have been made, exit the menu by pressing the standby button .

## 4 Wlan / Wifi

### 4.1 Set up Wlan / Wifi

Switch on humidifier B 280, after a short time a new network should be visible.

To do this, search the network environment on the PC or search for "Brune WLAN" under Network & Internet settings (mobile device) and connect to it:



Using a web browser, enter the IP address 192.168.4.1 as shown in the device and open the start page of the network setup.

Set up Wlan / Wifi

Click on "Settings" to open a new menu for the WLAN configuration.

- 1) The mode must be changed from "Config" to "Client".
- 2.) Enter the name of your existing WLAN network in the SSID field.
- 3) Enter the corresponding password for your WLAN network in the PWD field.

Finally, transfer all entries to the device with "Apply".



## 4.2 Brune Control App

The B 280 humidifier can now be controlled with the Brune Control app (available free of charge for Android and iOS).



**Brune Control**  
Lifestyle

LADEN



Activate Brune WLAN / reset network settings

### 4.3 Activate Brune WLAN / reset network settings

Switch off the device using the standby button. Now press the standby button and hold it down for 5 seconds until "Ad" appears on the display.

You can select the "n9" menu by pressing the FAN button.

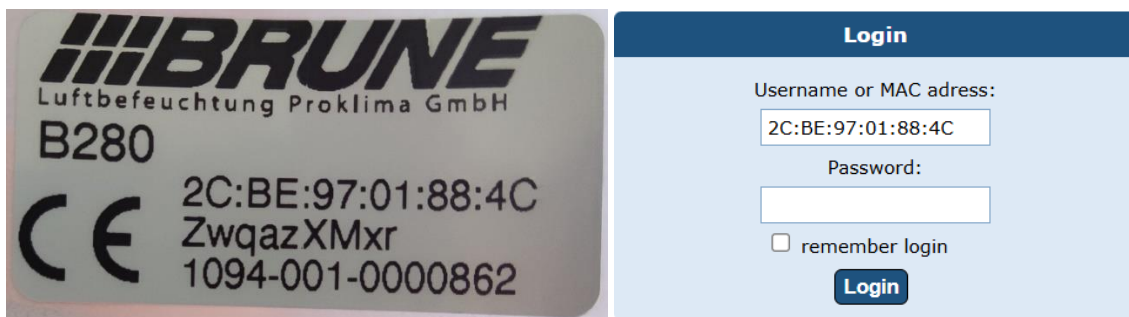
Pressing the HUMIDITY + and - buttons simultaneously triggers a countdown to reset the settings.

#### ATTENTION!

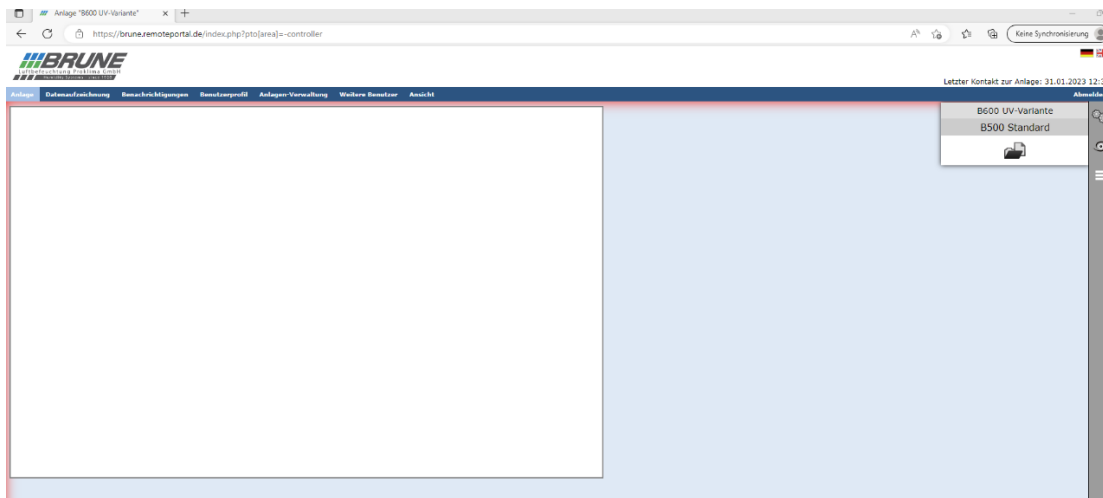
Once the countdown is complete, all settings of the WLAN/WiFi module are deleted (display "n0").

In order for the device to be operated via the remote portal, you must log in at <https://brune.remoteportal.de>.

To do this, enter the labelled MAC address and the password below it in the login window.



The start page of the remote portal opens and a configuration can be made.



After registering, you can use the remote portal free of charge for 30 days via a trial account.

## 5 Cleaning and care

### 5.1 Maintenance table

#### UV light



#### WARNING!

#### Risk of injury from UV light!

UV light irritates and damages the eyes and can cause skin irritation.

#### Moving parts



#### WARNING!

#### Risk of injury from moving parts!

Rotating fan wheel can cause hand injuries.

#### Maintenance work

#### Disconnect the appliance from the mains before carrying out maintenance work.

The frequency of maintenance work depends on the air and water quality at the installation site. If necessary, adjust the maintenance intervals recommended here.

Interval	Maintenance work
Weekly	Change the water and clean the tank ( ➤Chapter 5.3 'Changing the water and cleaning the appliance' on page 31).
Monthly	Clean the inner side panels with a damp cloth ( ➤Chapter 5.3 'Changing the water and cleaning the appliance' on page 31).
Monthly	Visually inspect the UV lamp on the back from the outside.
Every 3 months	Change the evaporation filter ( ➤Chapter 5.4 "Changing the evaporation filter" on page 32).
Every 3 months	Change the cleaning filter ( ➤Chapter 5.5 "Changing the cleaning filter" on page 34).
Every 6 months	<b>Only for water connection via the pressure pipe:</b> Carry out a visual inspection of the solenoid valve to the water connection. Remove any impurities. If the solenoid valve is heavily soiled, have it replaced by specialised sanitary personnel.
Annually	Carry out basic cleaning with limescale remover ( ➤Chapter 5.3 'Changing the water and cleaning the appliance' on page 31).

### 5.2 Opening and closing the front

The front must be opened for the following work:

- Change water
- Clean tank

- Clean the inner side walls.
- Change the evaporation filter.

#### Open front



Fig. 13: Releasing the lock

1. → Slide the locking mechanism (Fig. 13/1) of the discharge grille inwards on both sides.

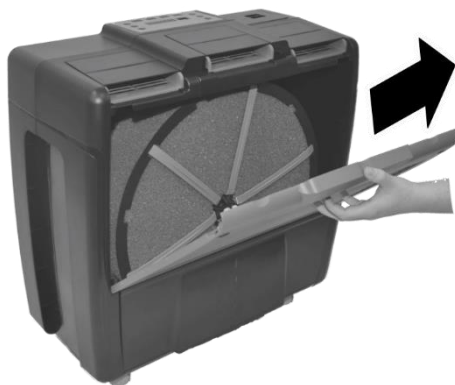


Fig. 14: Lifting out the discharge grille

2. → Lift out the discharge grille upwards (Fig. 14).

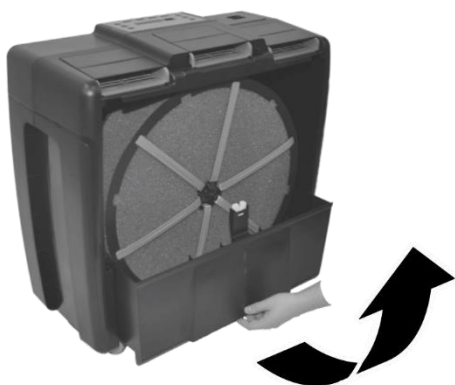


Fig. 15: Pulling out the tank and filter drum

3. →



#### NOTE!

##### Caution, risk of tipping!

Risk of material damage due to escaping water.

- When removing the water tank, ensure that the appliance does not tip over.

Lift the tank from below and pull it out with the filter drum facing forwards (Fig. 15).

### Close front page



Fig. 16: Placing the filter drum in the water tank

1. → Place the filter drum in the water tank (Fig. 16).

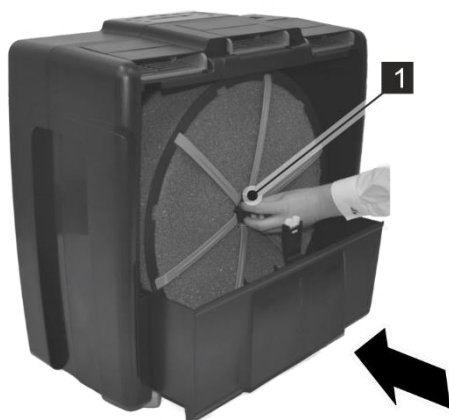


Fig. 17: Push the filter drum onto the drive

2. →



#### NOTE!

##### Caution, risk of tipping!

Risk of material damage due to escaping water.

-When inserting the water tank, ensure that the appliance does not tip over.

Push the water tank into the appliance and at the same time push the filter drum onto the drive (Fig. 17/1).

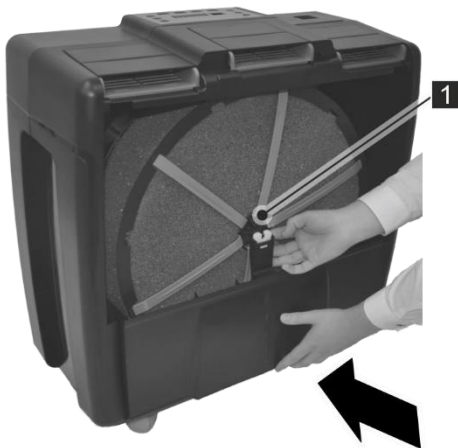


Fig. 18: Fixing the filter drum

3. → Press the water tank firmly in place and secure the hub of the water drum with the tank holder (Fig. 18/1).

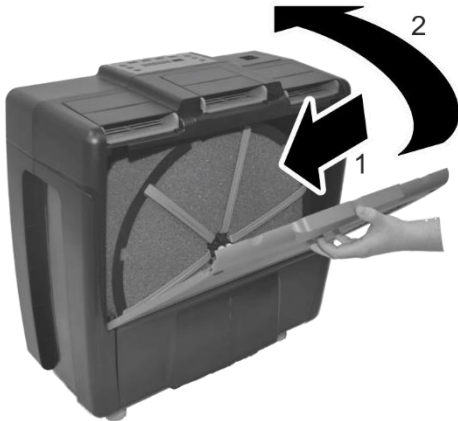


Fig. 19: Closing the discharge grille

4. → Insert the discharge grille into the guides (Fig. 19/1) and press onto the appliance (Fig. 19/2).



Fig. 20: Locking the front

5. → Slide the locking mechanism (Fig. 20/1) of the discharge grille outwards on both sides.

### 5.3 Changing the water and cleaning the tank

**NOTE!**

Do not use abrasive, corrosive or soapy cleaners.

In the case of severe contamination and calcification, use a descaler for cleaning. A suitable descaler can be obtained from our customer service department (↗ “Customer service” on page 4). Observe the dosage and usage instructions on the packaging of the descaler.

Descaler:

- Order number: 9016

- 1.** ➤ Open the front (↗ on page 27).
- 2.** ➤ Empty the water tank.
- 3.** ➤ Clean the water tank with a damp cloth.
- 4.** ➤ Clean the inside walls of the humidifier with a damp cloth.
- 5.** ➤ Clean the filter drum of the evaporation filter with a damp cloth.
- 6.** ➤ Close the front (↗ on page 29).
- 7.** ➤ Fill the water tank (↗ on page 16).

### 5.4 Changing the evaporation filter

You can obtain the appropriate evaporation filters (order number: 6550) from our customer service department ( ➔ *"Customer service" on page 4*).

1. ➔ Open the front ( ➔ *on page 25*).
2. ➔ Remove the filter drum (Fig. 21).



Fig. 21: Removing the filter drum

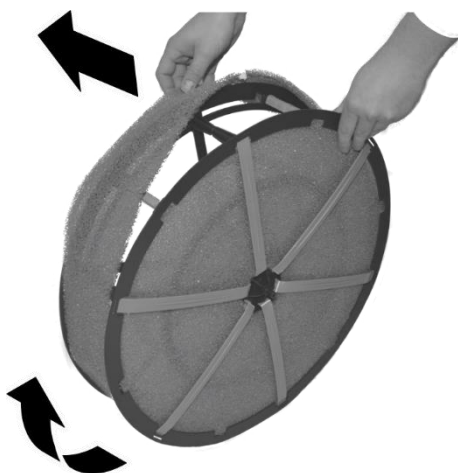


Fig. 22: Removing the outer evaporation filter

3. ➔ Remove the outer evaporation filter (Fig. 22).



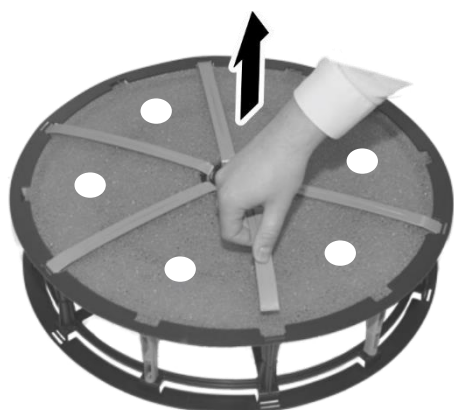


Fig. 23: Loosen the filter holder and remove the fastening pins.

4. → Detach the filter holder from the filter drum and fold them up. Remove the white fixing pins and set them aside. (Fig. 23).



Fig. 24: Removing the inner evaporation filter

5. → Remove the inner evaporation filter (Fig. 24).
6. → If it is dirty, clean the filter drum with a damp cloth.

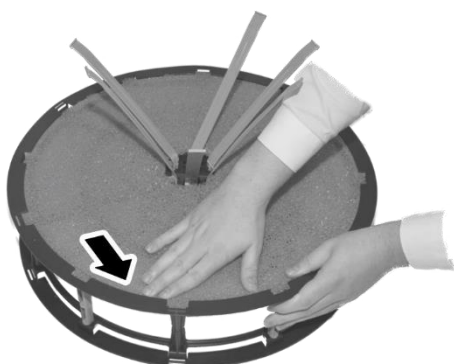


Fig. 25: Positioning and clamping the evaporation filter

7. → Pull the new inner evaporation filter over the filter holders (Fig. 25).
8. → Slide the outer edge of the evaporation filter under the edge of the filter drum all the way round.

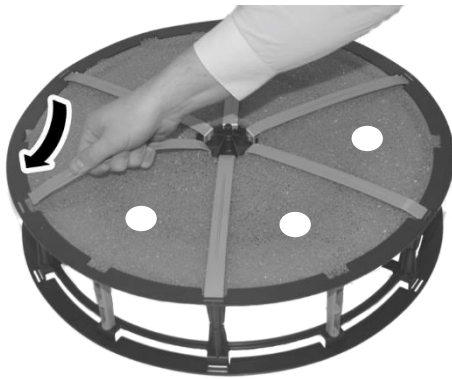


Fig. 26: Fastening the filter holder and reinserting the fastening pins

9. ➔ Fold down the filter brackets and lock them into place. Reinsert the previously removed fixing pins. (Fig. 26).

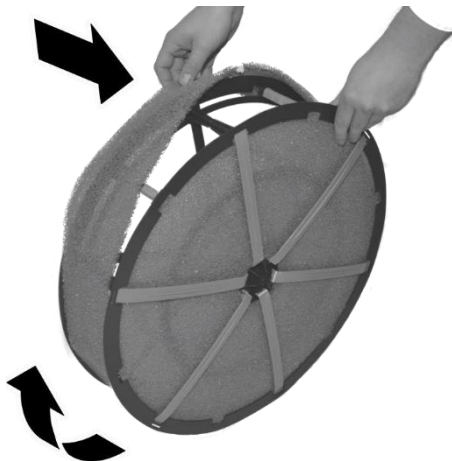


Fig. 27: Covering the outer evaporation filter

10. ➔ Carefully pull the new outer evaporation filter over the filter drum (Fig. 27), it may tear.
11. ➔ Close the front ( ➔ on page 26).

## 5.5 Changing the cleaning filter

You can obtain the appropriate cleaning filter (order number: 6551) from our customer service department ( ➔ "Customer service" on page 4).

1. ➔ Open the intake grille by pulling (Fig. 28).



Fig. 28: Opening the intake grille

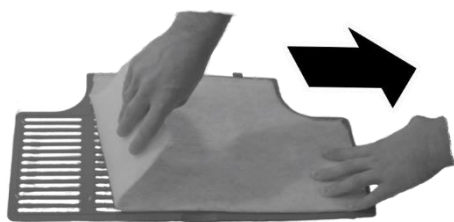


Fig. 29: Removing the cleaning filter

2. ➔ Remove the old cleaning filter (Fig. 29).

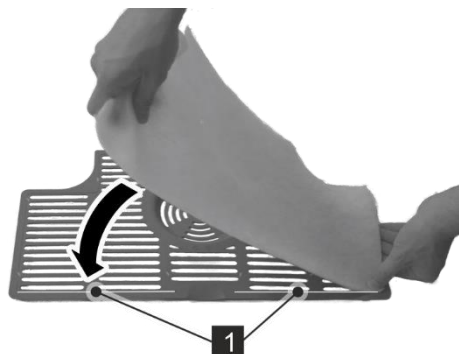


Fig. 30: Attaching the cleaning filter

3. ➔ Stick the new cleaning filter onto the intake grille with the adhesive side along the marking (Fig. 30/1).



Fig. 31: Closing the intake grille

4. ➔ Close the intake grille. To do this, insert the two lower guides into the holes provided and press on the individual fixing points until they click into place (Fig. 31).

## 5.6 Changing the UV lamp (optional accessory)



### WARNING!

#### Risk of injury from mercury in UV lamp!

Improper transport, operation or improper handling of the UV lamp can cause mercury to escape. Contact with mercury can lead to severe poisoning, skin irritation and eye damage.

- Always handle UV lamps containing mercury with care.



### WARNING!

#### Risk of injury from UV light!

UV light irritates and damages the eyes and can cause skin irritation.

- **Disconnect the mains plug before changing the UV lamp.**
- Do not look at the UV lamp when it is switched on.
- If the eyes flash, immobilise them by placing a wide, opaque bandage around them and take the injured person to the eye clinic.

The matching UV lamp (order number: 6210) and socket (order number: 6211) can be obtained from our customer service department ( → "Customer service" on page 4).

1. ➤ Loosen the screws on the rear panel of the housing (Fig. 32).
2. ➤ Put the rear panel of the housing to one side.

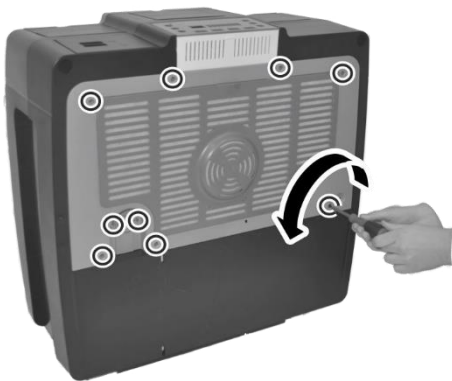


Fig. 32: Opening the rear

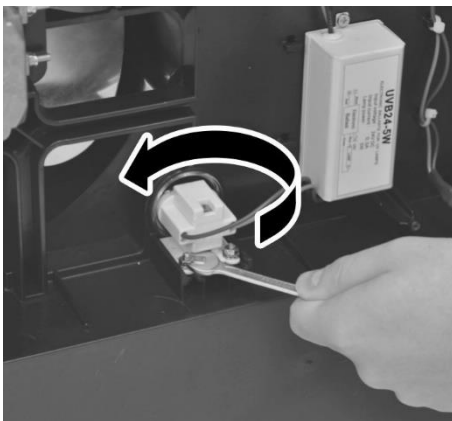


Fig. 33: Loosen the nuts on the bulb holder

3. ➤ Loosen the lampholder nuts with a 7 mm spanner (Fig. 33).

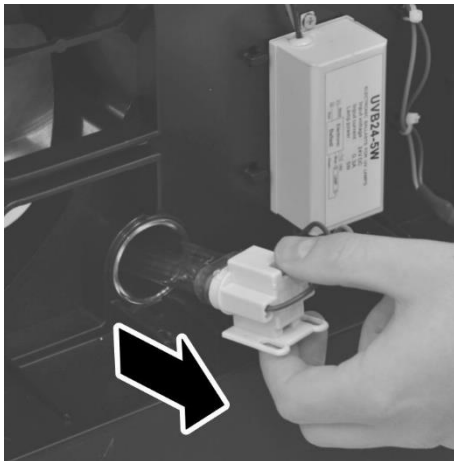


Fig. 34: Pulling out the UV lamp

4. Carefully remove the lamp holder from the back (Fig. 34).

UV-Lampe wechseln (optionales Zubehör)

Changing

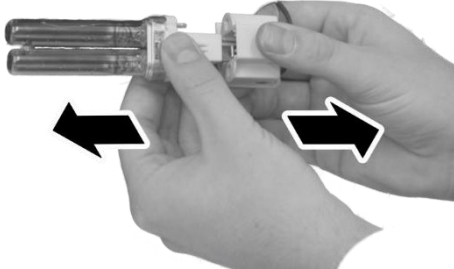


Fig. 35: Unplugging the UV lamp

5. Unplug the old UV lamp out of the socket (Fig. 35).

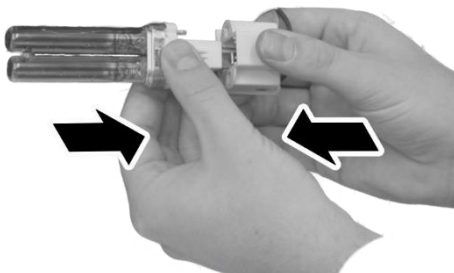


Fig. 36: Inserting the UV lamp

- 6.



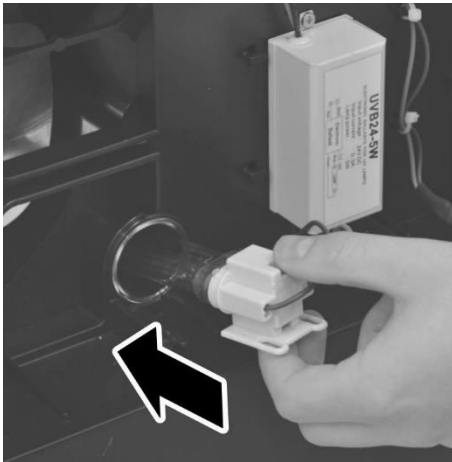
### NOTE!

#### Risk of damage to the UV lamp!

Touching the glass bulb can damage the UV lamp.

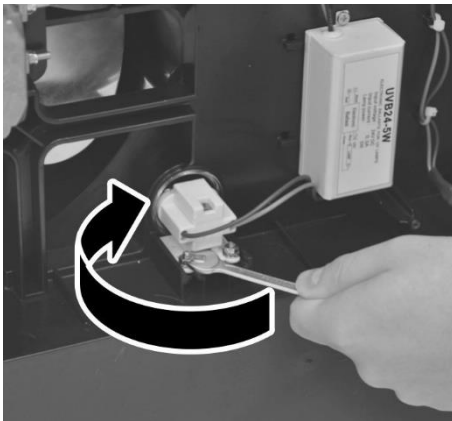
- Do not touch the glass flask!
- Only touch the UV lamp at the base

Insert a new UV lamp into the socket (Fig. 36).



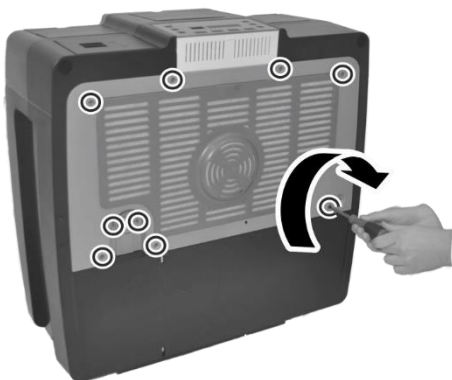
*Fig. 37: Push the UV lamp into the opening*

7. Push the UV lamp and socket back into the opening (Fig. 37).



*Fig. 38: Tighten the lampholder nuts*

8. Tighten the nuts with a 7 mm open-end spanner (Fig. 38).



*Fig. 39: Closing the rear*

9. Close the rear panel of the housing and tighten the screws (Fig. 39).

## 6 Rectifying problems

### Fault table

If the operation of the humidifier is faulty, an error message appears in the AIR HUMIDITY %  display panel.




Error number	Description	Remedial action
F1	Housing cover not closed at the front	Close the housing cover
F2 / Signal tone	Tank empty	Top up with water
F3	Tank sensor defective	Contact customer service (🔗 "Customer service" on page 4)
F4	Humidity sensor defective	Contact customer service (🔗 "Customer service" on page 4)
05 / Signal tone	No radio reception (radio sensor system, optional accessory)	Check the radio humidity transmitter and replace the batteries if necessary (🔗 "3.4 Putting the radio humidity transmitter into operation" on page 20)

Other faults	Remedy
Water leakage	<ul style="list-style-type: none"> <li>■ Pull out the mains plug.</li> <li>■ Empty the water tank.</li> <li>■ Contact customer service.</li> <li>■ Filter holder or fastening pins of the filter drum are missing, please insert</li> </ul>
Severe calcification	<ul style="list-style-type: none"> <li>■ Clean the humidifier more frequently.</li> <li>■ Use limescale remover for cleaning.</li> <li>■ Use treated water instead of tap water.</li> </ul>
Odour development	<ul style="list-style-type: none"> <li>■ Change the water more frequently.</li> <li>■ Clean the humidifier more frequently.</li> <li>■ Use fresh water.</li> <li>■ Replace filter.</li> </ul>


### Repairs

Repairs may only be carried out by the customer service of the manufacturer (🔗 "Customer service" on page 4) or trained electricians.

### Readjusting the humidity display




You can use this function to set a correction value. To do this, select OF in the special menu using the standby button . The value can be set using the **HUMIDITY**  and  button.




Setting range: -9% ...+9% relative humidity

Once the settings have been made, exit the menu by pressing the standby button .




## 7 Menu overview



You can make various settings for your humidifier in the menus.

To do this, switch the device off using the standby button . Now press the standby button  and hold it down for 5 seconds until "Ad"  appears on the display.

You can now select the desired menu by pressing the FAN button . Use the HUMIDITY button  and  to change the settings in the respective menus.

The following table provides an overview of the menu structure.

Menu	Description of the	Settings	Comment	Factory Settings
Ad	Coupling with the radio humidity transmitter		By pressing the HUMIDITY + or - button to select the desired radio coding, see  "Coding radio humidity transmitters" on page 16.	00
b1/b0	Switching the signal tone on and off	b1 = ON b0 = OFF	By pressing the HUMIDITY button, you can choose between b1 and b0, see  "Activating/deactivating the signal tone" on page 19.	b1
OF	Readjusting the humidity display	-9% ...+9%	You can select the desired value by pressing the HUMIDITY + or - button, see  "Readjusting the humidity display" on page 39.	0
n9	Reset WLAN/WiFi module	n9 - n0	Pressing the HUMIDITY + and - buttons simultaneously triggers a countdown to reset the settings. ATTENTION: At the end of the countdown, all settings of the WLAN/WiFi module are deleted.	

\*Please note that the above factory-set intervals must be adjusted depending on the installation location and duration of use. The intervals can be adjusted in the menu based on the local conditions ( see chapter "Selecting the menu" on page 22). If you have any questions, please contact our customer service department ( "Customer service" on page 4).



## 8 Disposal

If no return or disposal agreement has been made, disassembled components must be recycled:

- Scrap metals.
- Hand over plastic components to be recycled.
- Sort and dispose of other components according to the material properties.



### **ENVIRONMENTAL PROTECTION!**

#### **Danger to the environment due to incorrect disposal!**

Incorrect disposal can be hazardous to the environment.



- Batteries and UV lamps containing mercury must not be disposed of with household waste.
- Dispose of batteries and UV lamps containing mercury at the usual local collection points.
- Have electronic waste and electronic components disposed of by authorised specialist companies.
- If in doubt, obtain information on environmentally sound disposal from the local municipal authority or specialised waste disposal companies

# CODING TABLE

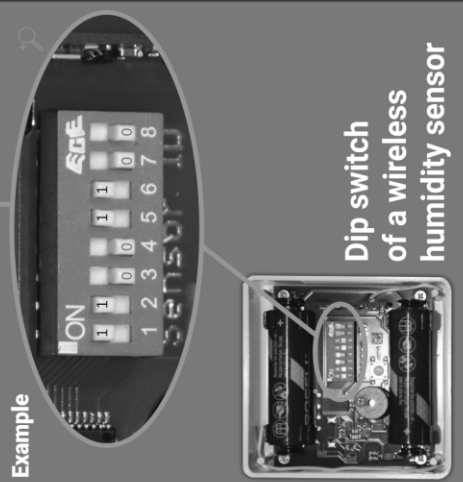
000000000000	0001010034	00100011167	100110109A	11001101CD
0000000101	0011010135	0110100068	1001101198	11001101CE
0000001002	0011010136	0110100169	100110109C	11001101CF
0000001103	0011011137	011010106A	100110119D	11010000D0
0000001004	0011010038	011010116B	100110119E	11010000D1
0000001005	0011010139	011010106C	100110119F	11010001D2
0000001106	001101013A	011010116D	10100000A0	11010001D3
0000001107	001101013B	011010116E	10100000A1	11010001D4
0000100008	001101003C	011010116F	10100001A2	11010001D5
0000100109	001101013D	0110100070	10100001A3	11010001D6
000010100A	001101013E	0110100071	10100001A4	11010001D7
000010110B	001101113F	0110100172	10100001A5	11010000D8
000011000C	0100000040	0110100173	10100001A6	11010001D9
000011010D	0100000141	0110100074	10100001A7	11010001DA
000011100E	0100000142	0110100175	10100001A8	11010001DB
000011110F	0100000143	0110100176	10100001A9	11010001DC
0001000010	0100000144	0110100177	10100001AA	11010001DD
0001000111	0100000145	0110100078	10100001AB	11010001DE
0001001012	0100000146	0110100179	10100001AC	11010001DF
0001001113	0100000147	011010017A	10100001AD	11000000E0
0001001014	0100000048	011010017B	10100001AE	11000001E1
0001001115	0100000149	011010017C	10100001AF	11000001E2
0001001016	010000014A	011010017D	10100000B0	11000001E3
0001001117	010000014B	011010017E	10100001B1	11000001E4
0001000018	010000014C	011010017F	10100001B2	11000001E5
0001000119	010000014D	1000000080	10100001B3	11000001E6
000100101A	010000014E	1000000181	10100001B4	11000001E7
000100111B	010000014F	1000000182	10100001B5	11000000E8
000100001C	0100000050	1000000183	10100001B6	11000001E9
000100101D	0100000151	1000000084	10100001B7	11000001EA
000100111E	0100000152	1000000185	10100000B8	11000001EB
000100111F	0100000153	1000000186	10100001B9	11000001EC
0010000020	0100000154	1000000187	10100001BA	11000001ED
0010000121	0100000155	1000000088	10100001BB	11000001EE
0010001022	0100000156	1000000189	10100001BC	11000001EF
0010001123	0100000157	100000018A	10100001BD	11000000F0
0010001024	0100000058	100000018B	10100001BE	11000001F1
0010001125	0100000159	100000008C	10100001BF	11000001F2
0010001026	010000015A	100000018D	10000000C0	11000001F3
0010001127	010000015B	100000018E	10000001C1	11000001F4
0010000028	010000015C	100000018F	10000001C2	11000001F5
0010000129	010000015D	1000000090	10000001C3	11000001F6
001000102A	010000015E	1000000091	10000001C4	11000001F7
001000112B	010000015F	1000000192	10000001C5	11000000F8
001000102C	0100000060	1000000193	10000001C6	11000001F9
001000112D	0100000161	1000000094	10000001C7	11000001FA
001000102E	0100000162	1000000195	10000000C8	11000001FB
001000112F	0100000163	1000000196	10000001C9	11000001FC
0010000030	0100000164	1000000197	10000001CA	11000001FD
0010000131	0100000165	1000000098	10000001CB	11000001FE
0010001032	0100000166	1000000199	10000001CC	11000001FF
0010001133				

1 = ON

Upward switch towards „ON“ corresponds to the value „1“ in the table.

Downward switch corresponds to the value „0“ in the table.

Example



1 1 0 0 1 1 0 0 CC



Display

## This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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