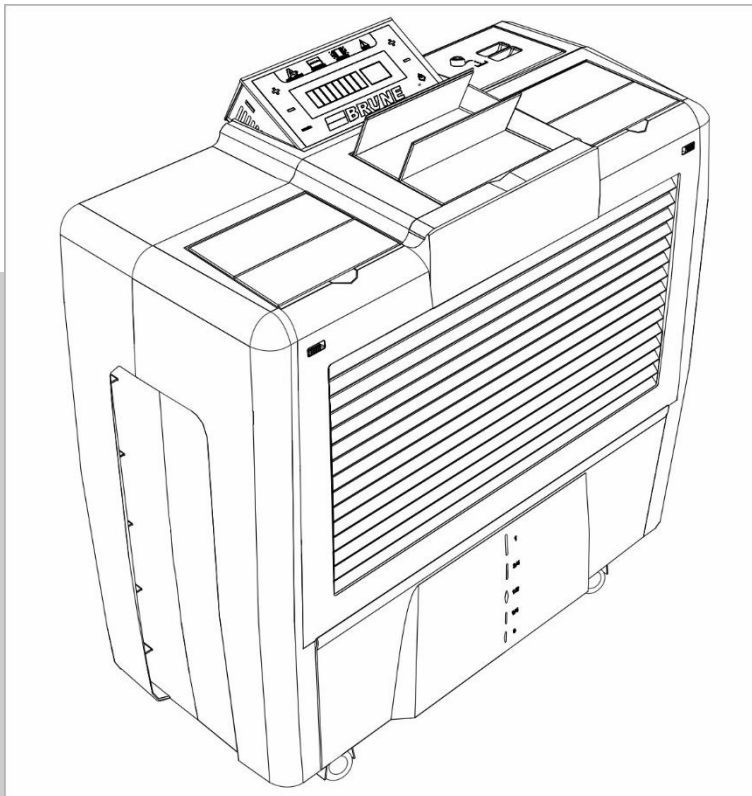


# Operating manual

**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

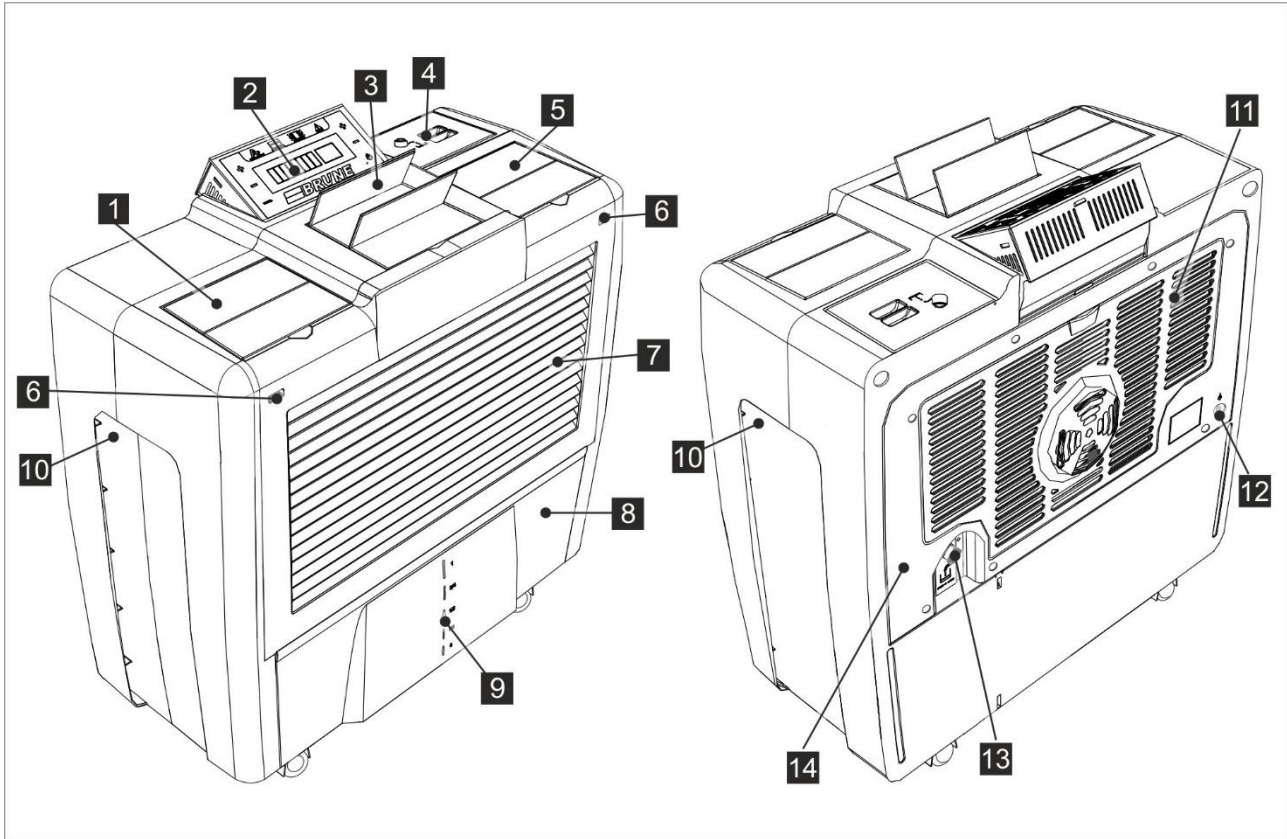


Fig. 1: Overview of the humidifier

- |                              |                                    |
|------------------------------|------------------------------------|
| 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 +	<ul style="list-style-type: none"> <li>■ Increase the fan speed.</li> </ul>
	FAN -	<ul style="list-style-type: none"> <li>■ Decrease the fan speed.</li> <li>■ Lowest level: switch on automatic mode.</li> </ul>
	IONIZER	<ul style="list-style-type: none"> <li>■ Switch ionisation on/off.</li> </ul>
	HUMIDITY +	<ul style="list-style-type: none"> <li>■ Increase the target value of the relative humidity.</li> </ul>
	HUMIDITY -	<ul style="list-style-type: none"> <li>■ Decrease the target value of the relative humidity.</li> </ul>
	STANDBY / ON / OFF	<ul style="list-style-type: none"> <li>■ Switch on the humidifier.</li> <li>■ Switch to standby mode.</li> <li>The red LED lights up in standby mode.</li> </ul>

Technical data

## Display elements

Symbol	Description	Display
	AUTO MODE	<ul style="list-style-type: none"> <li>Red: Automatic mode is running ↪ "Automatic fan mode" on page 18.</li> </ul>
	ERROR	<ul style="list-style-type: none"> <li>Red: an error has occurred ↪ "Fault table" on page 39.</li> </ul>
	IONIZER ON	<ul style="list-style-type: none"> <li>Red: ionisation function is running ↪ 'Switching ionisation on/off' on page 19.</li> </ul>
	WATER TANK	<ul style="list-style-type: none"> <li>Red: tank empty. Fill up with water ↪ on page 16.</li> <li>Green: fill level sufficient for operation</li> <li>Green flashing: tank full. Stop filling.</li> </ul>
	FAN ACTIVITY	<ul style="list-style-type: none"> <li>Current speed level of the fan ↪ "Setting the fan speed" on page 18</li> </ul>
	AIR HUMIDITY %	<ul style="list-style-type: none"> <li>Actual value of the relative humidity</li> </ul>
	AIR HUMIDITY % with Button HUMIDITY + or HUMIDITY -	<ul style="list-style-type: none"> <li>Set target value of the relative humidity</li> </ul>
	AIR HUMIDITY % with simultaneous illumination of the ERROR ⚠	<ul style="list-style-type: none"> <li>Fault number ↪ "Fault table" on page 39</li> </ul>

## 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	m <sup>3</sup> /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.

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

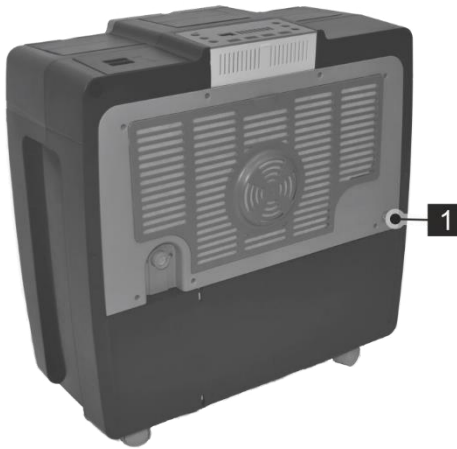


Fig. 4: Connecting the power supply

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 + and HUMIDITY - 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  to switch to the "b1/b0" submenu. Now press the HUMIDITY + button  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

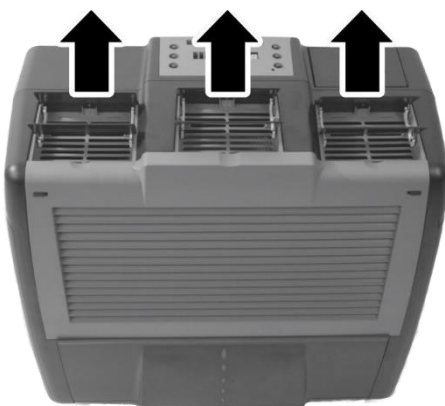


Fig. 6: Opening the ventilation flaps

- ➔ 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.

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).

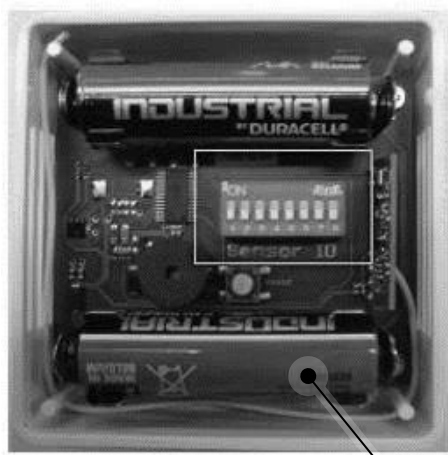


Fig. 8: Inserting the batteries

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.

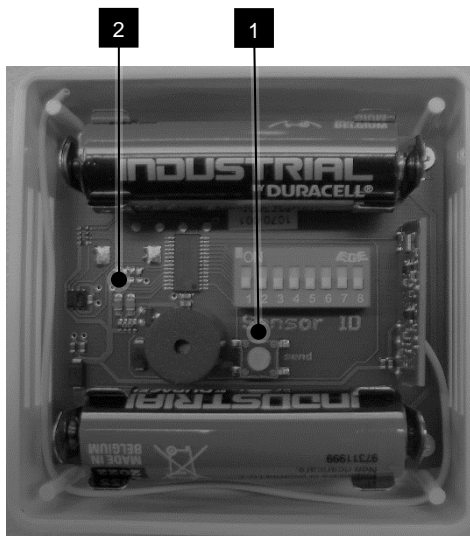


Fig. 9: Check functionality

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

**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.

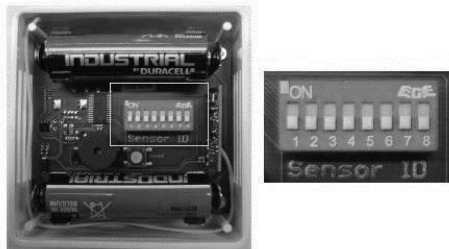


Fig. 12: Coding the humidifier

Use the **HUMIDITY** button  $\oplus$  and  $\ominus$  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.**

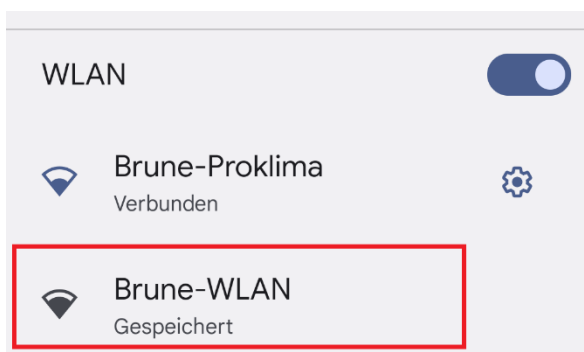
Once the settings have been made, exit the menu by pressing the standby button  $\text{⏻}$ .

## 4 Wlan / Wifi

### 4.1 Set up Wlan / Wifi

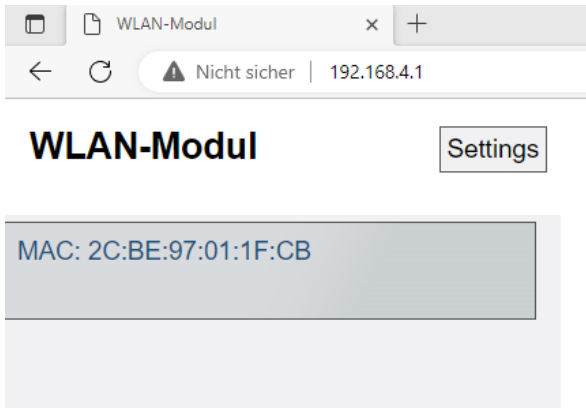
Switch on humidifier B 280, after a short time a new network should be visible.

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:

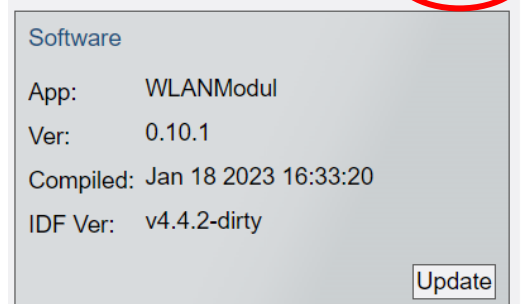
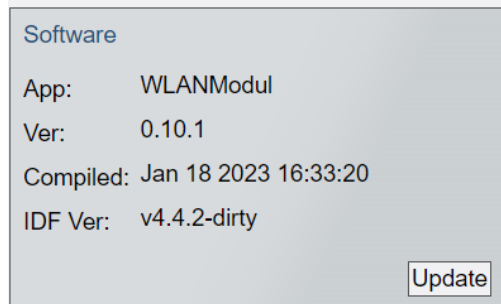
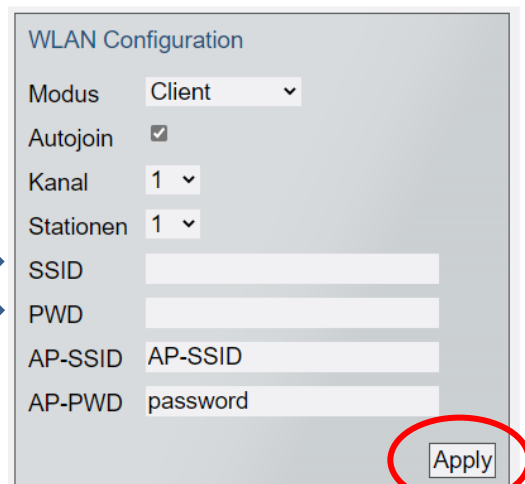
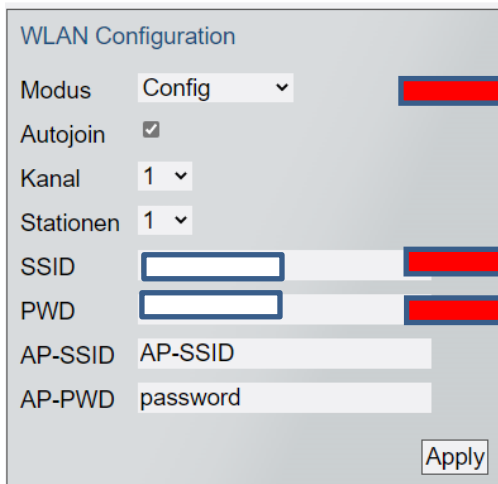
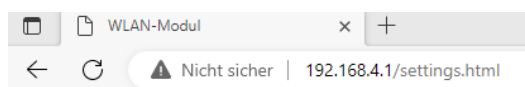
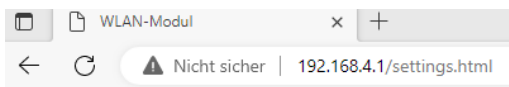


Using a web browser, enter the IP address 192.168.4.1 as shown in the device and open the start page of the network setup.

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".



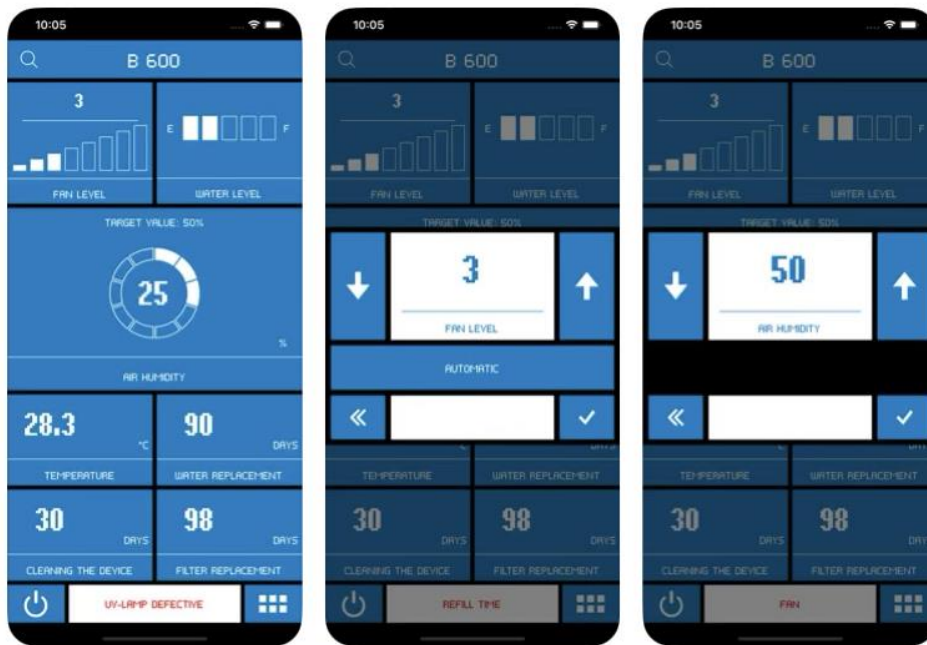
## 4.2 Brune Control App

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.

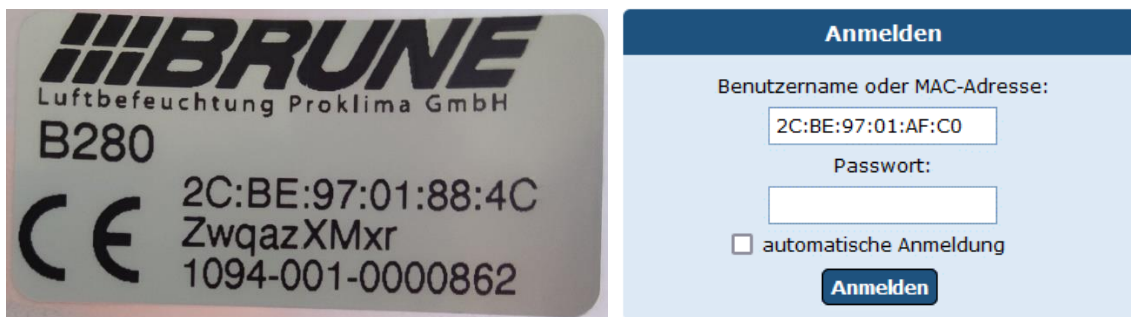
Pressing the HUMIDITY + and - buttons simultaneously triggers a countdown to reset the settings.

#### ATTENTION!

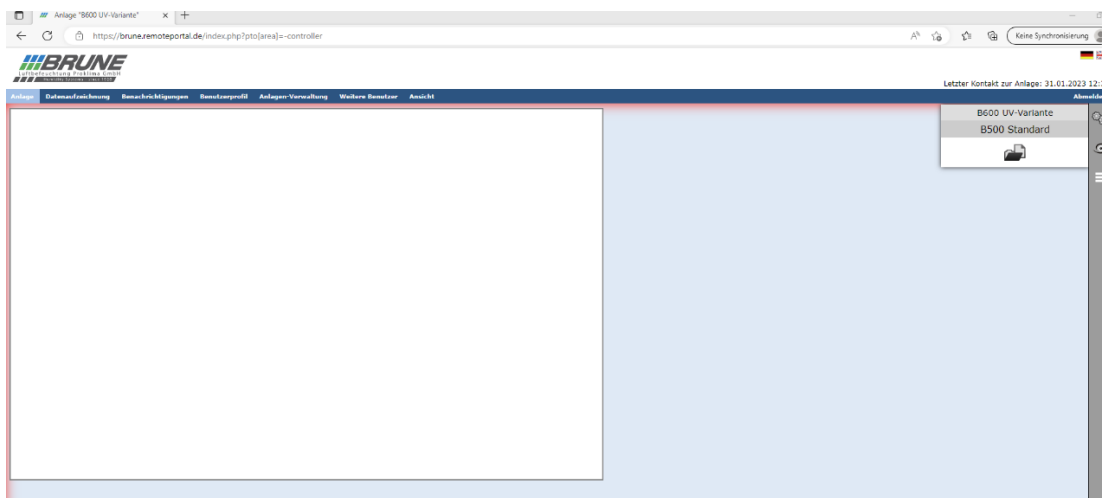
Once the countdown is complete, all settings of the WLAN/WiFi module are deleted (display "n0").

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.

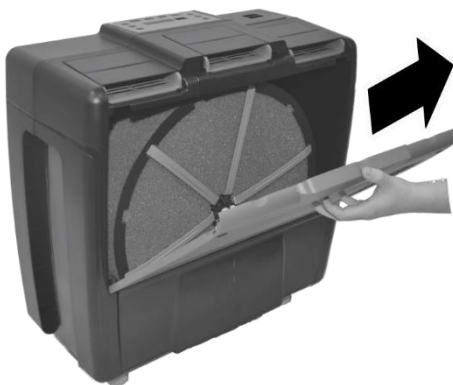


Fig. 14: Lifting out the discharge grille

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

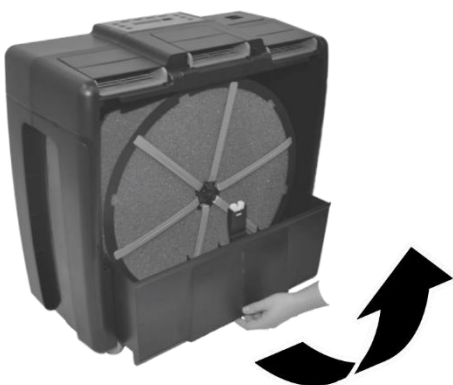


Fig. 15: Pulling out the tank and filter drum

3. →



#### NOTE!

#### Caution, risk of tipping!

Risk of material damage due to escaping water.

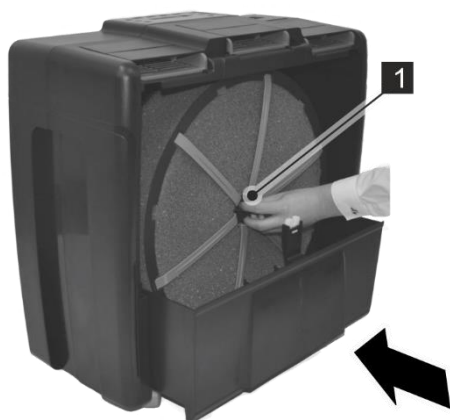
-When removing the water tank, ensure that the appliance does not tip over.

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).

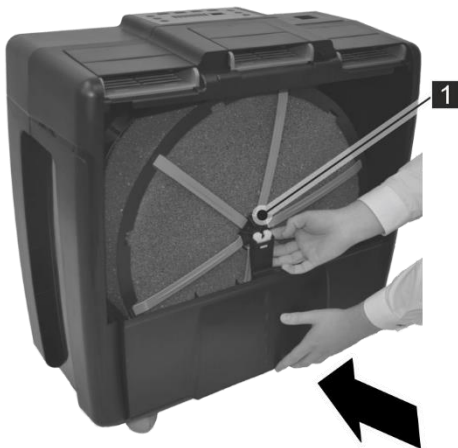


Fig. 18: Fixing the filter drum

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

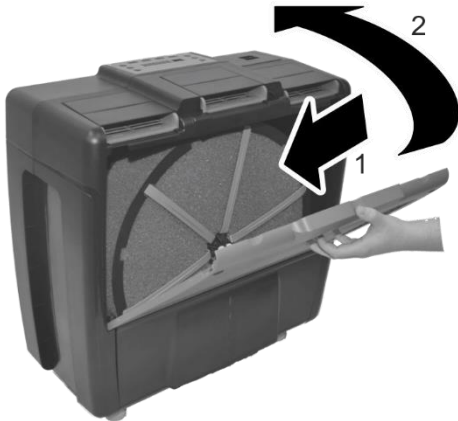


Fig. 19: Closing the discharge grille

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

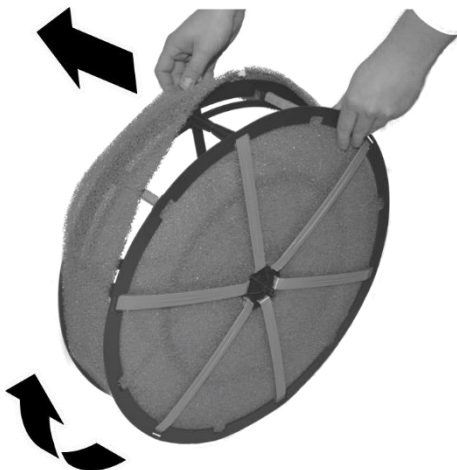
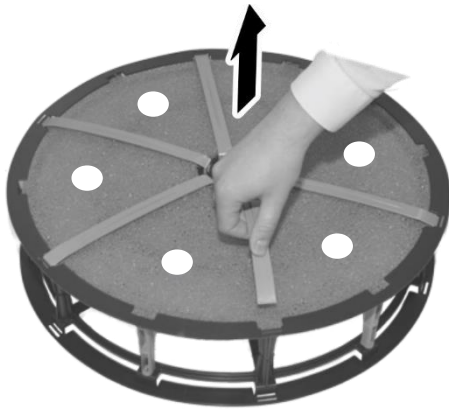


Fig. 22: Removing the outer evaporation filter

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





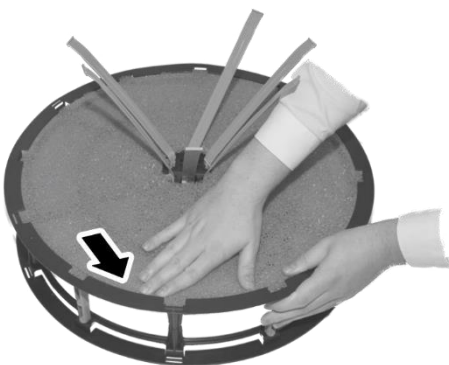
*Fig. 23: Loosen the filter holder and remove the fastening pins.*

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.

### Change evaporation filter

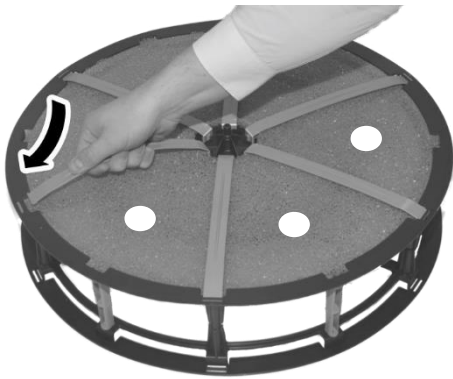


Fig. 26: Fastening the filter holder and reinserting the fastening pins

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

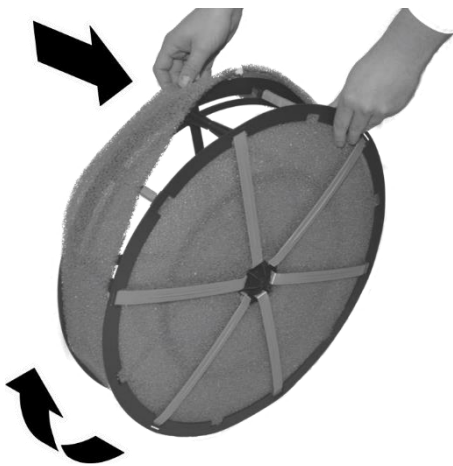


Fig. 27: Covering the outer evaporation filter

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).

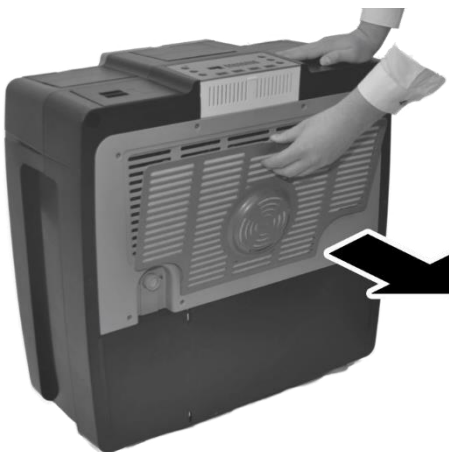


Fig. 28: Opening the intake grille

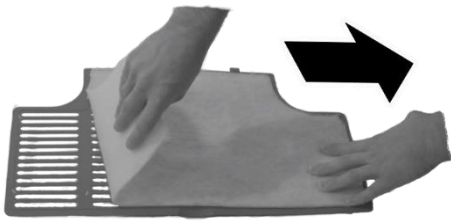


Fig. 29: Removing the cleaning filter

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

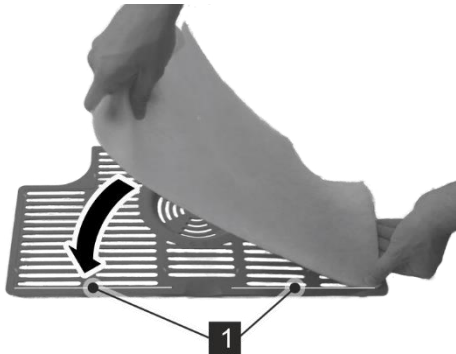


Fig. 30: Attaching the cleaning filter

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

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

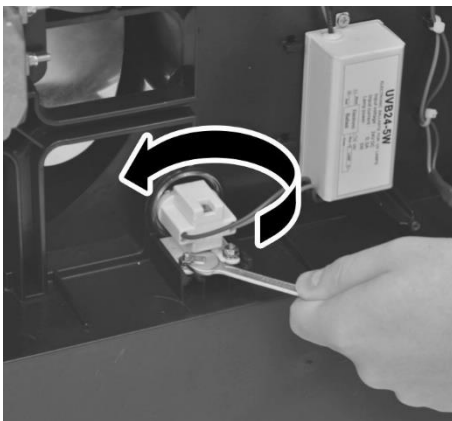


Fig. 33: Loosen the nuts on the bulb holder

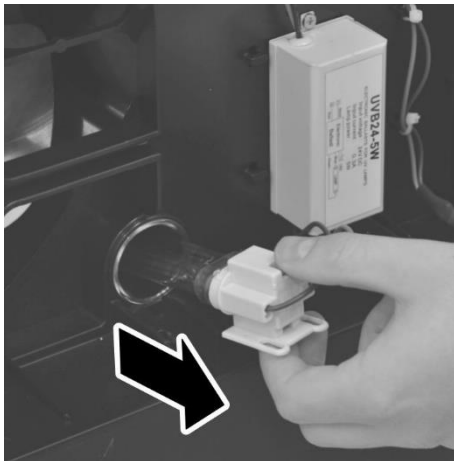


Fig. 34: Pulling out the UV lamp

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

UV-Lampe wechseln (optionales Zubehör)

Changing

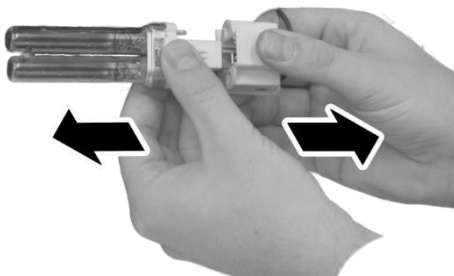


Fig. 35: Unplugging the UV lamp

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

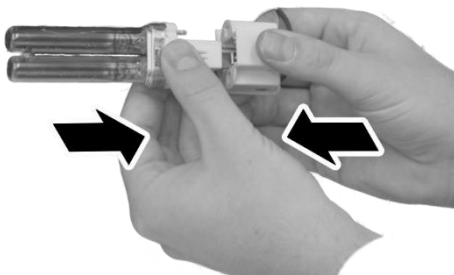


Fig. 36: Inserting the UV lamp

- 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).

Changing the UV lamp (optional accessory)

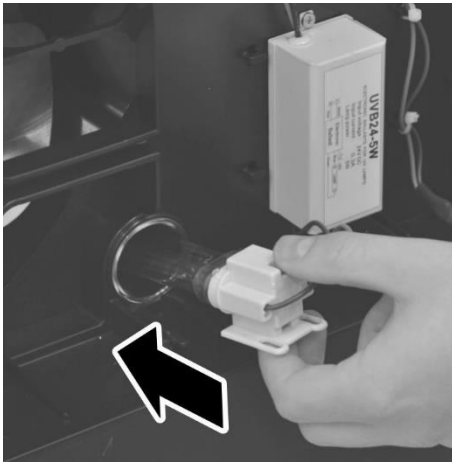


Fig. 37: Push the UV lamp into the opening

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

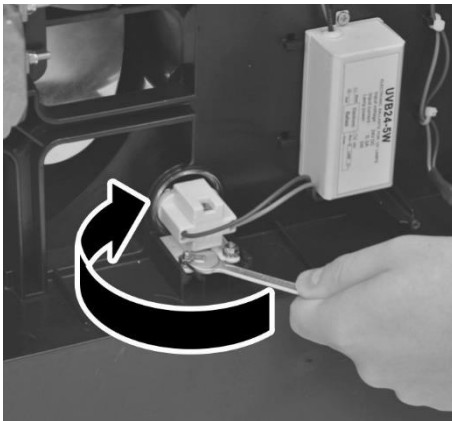


Fig. 38: Tighten the lampholder nuts

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)
03	Filter change necessary	Changing the filter (☞ "Changing the evaporation filter" on page 32)
04	Water change necessary	Change the water (☞ 'Changing the water and cleaning the appliance' on page 31)
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
FF	Update rate of the internal humidity sensor	0 - 99 = minutes	You can select the desired value by pressing the HUMIDITY + or - button.	2
FI*	Number of days until the filter needs to be changed.	0 - 99 = Number of days	After changing the filter, the display must be reset in the menu by pressing the HUMIDITY + or - button so that the error message 03 disappears.	60
CL*	Number of days until the water needs to be changed.	0 - 99 = Number of days	After changing the water, the display must be reset in the menu by pressing the HUMIDITY + or - button so that the error message 04 disappears.	30
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

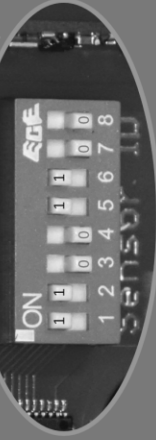
000000000000	000101034	011001167	10010109A	1100101CD
0000000101	001101035	0110100068	100101019B	11001010CE
0000000102	001101036	0110100169	100101009C	11001011CF
0000000103	001101037	0110100170	100101019D	1100100000
0000000104	001101038	0110100171	100101009E	1100100001
0000000105	001101039	0110100172	100101019F	1100100002
0000000106	00110103A	0110100173	10100000AA	1100100003
0000000107	00110103B	0110100174	10100000A1	1100100004
0000000108	00110103C	0110100175	10100000A2	1100100005
0000000109	00110103D	0110100176	10100000A3	1100100006
000000010A	00110103E	0110100177	10100000A4	1100100007
000000010B	00110103F	0110100178	10100000A5	1100100008
000000010C	0011000040	0110100179	10100000A6	1100100009
000000010D	0011000041	011010017A	10100000A7	110010000A
000000010E	0011000042	011010017B	10100000A8	110010000B
000000010F	0011000043	011010017C	10100000A9	110010000C
0000000110	0011000044	011010017D	10100000AA	110010000D
0000000111	0011000045	011010017E	10100000AB	110010000E
0000000112	0011000046	011010017F	10100000AC	110010000F
0000000113	0011000047	1000000080	10100000AD	11000000E0
0000000114	0011000048	1000000081	10100000AE	11000000E1
0000000115	0011000049	1000000082	10100000AF	11000000E2
0000000116	001100004A	1000000083	10110000B0	11000000E3
0000000117	001100004B	1000000084	10110000B1	11000000E4
0000000118	001100004C	1000000085	10110000B2	11000000E5
0000000119	001100004D	1000000086	10110000B3	11000000E6
000000011A	001100004E	1000000087	10110000B4	11000000E7
000000011B	001100004F	1000000088	10110000B5	11000000E8
000000011C	0011000050	1000000089	10110000B6	11000000E9
000000011D	0011000051	100000008A	10110000B7	11000000EA
000000011E	0011000052	100000008B	10110000B8	11000000EB
000000011F	0011000053	100000008C	10110000B9	11000000EC
0000000200	0011000054	100000008D	10110000BA	11000000ED
0000000201	0011000055	100000008E	10110000BB	11000000EE
0000000202	0011000056	100000008F	10110000BC	11000000EF
0000000203	0011000057	1000000090	10110000BD	11000000F0
0000000204	0011000058	1000000091	10110000BE	11000000F1
0000000205	0011000059	1000000092	10110000BF	11000000F2
0000000206	001100005A	1000000093	10000000C0	11000000F3
0000000207	001100005B	1000000094	10000000C1	11000000F4
0000000208	001100005C	1000000095	10000000C2	11000000F5
0000000209	001100005D	1000000096	10000000C3	11000000F6
000000020A	001100005E	1000000097	10000000C4	11000000F7
000000020B	001100005F	1000000098	10000000C5	11000000F8
000000020C	0011000060	1000000099	10000000C6	11000000F9
000000020D	0011000061	100000009A	10000000C7	11000000FA
000000020E	0011000062	100000009B	10000000C8	11000000FB
000000020F	0011000063	100000009C	10000000C9	11000000FC
0000000300	0011000064	100000009D	10000000CA	11000000FD
0000000301	0011000065	100000009E	10000000CB	11000000FE
0000000302	0011000066	100000009F	10000000CC	11000000FF
0000000303	0011000067	100000009A	10000000CC	11000000FF

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



Dip switch of a wireless humidity sensor

1 1 0 0 1 1 0 0 CC



Display





Luftbefeuchtung Proklima GmbH - Schwarzacher Str. 13 - 74858 Aglasterhausen - Germany  
Phone: 06262-5454 - Fax: 06262-3255 - Mail: [mail@brune.info](mailto:mail@brune.info) - Web: [www.brune.info](http://www.brune.info)