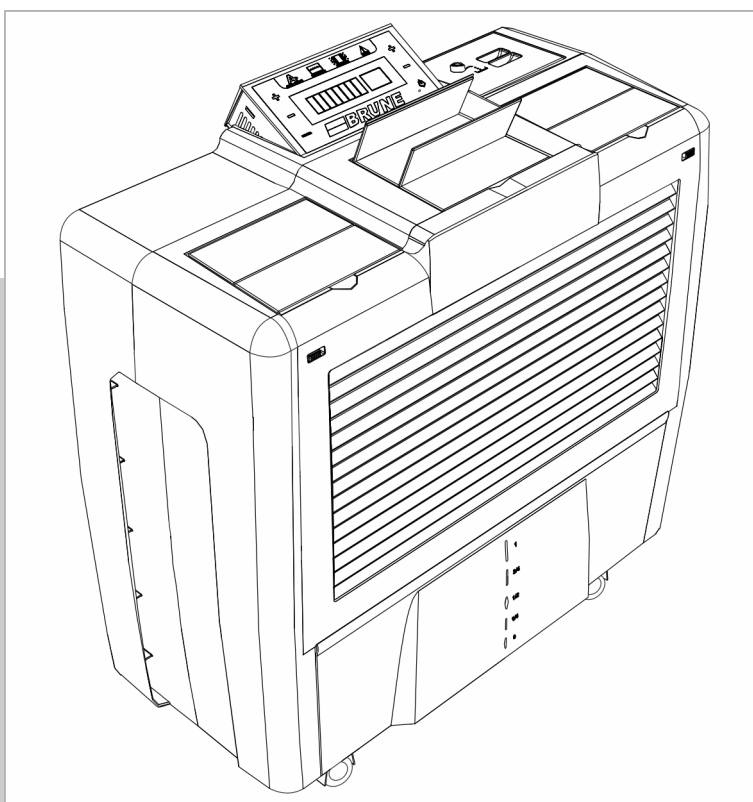


# Operating manual

**Brune B 280**

**Evaporative humidifier**



**BRUNE**



Read the instructions prior to performing any task!

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Translation of the original operating manual  
Prok-25960-DE, 1, en\_GB

<b>Use and storage of the instructions</b>	<p>Read these instructions carefully before operating the Brune B 280 evaporative humidifier. The non-observance of these instructions may lead to injuries, or damage to the humidifier and the arrangement of the installation location.</p> <p>Store the instructions carefully and accessibly in the vicinity of the unit. If you pass on the humidifier to a third party, make sure that the instructions accompany it.</p> <p>Illustrations in these instructions are provided for basic understanding and could differ from the actual version.</p>
<b>Information on start-up</b>	<p>The basic prerequisite for safe working is compliance with all stated safety and handling instructions.</p> <p>In order to start up the humidifier, a connection to the mains power supply and a fill up of the water container is required (↪ <i>Chapter 3.3 'Starting up the humidifier' on page 17</i>).</p> <p><b>The optional connection of the humidifier to the water network must be carried out by a qualified sanitary engineer.</b></p>
<b>Information on cleaning and care</b>	<p>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 (↪ <i>Chapter 4 'Cleaning and care' on page 24</i>).</p>
<b>Accessories</b>	<p>The following accessories for the Brune B 280 evaporative humidifier are available from Brune Luftbefeuchtung Proklima GmbH:</p> <ul style="list-style-type: none"><li>■ Pressure hose with Aquastop</li><li>■ Safety collection basin</li><li>■ Waterfresh</li><li>■ Descaler</li><li>■ Cleaning filter</li><li>■ Evaporator filter</li><li>■ UV lamp</li><li>■ Remote sensor system</li></ul>
<b>Copyright protection</b>	<p>The content of these instructions is protected by copyright. Its use is permitted within the framework of the use of the unit. Any use exceeding this purpose is not permitted without written permission from Brune Luftbefeuchtung Proklima GmbH.</p>

**Customer service**

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## 1 Product description

### 1.1 Overview of the humidifier

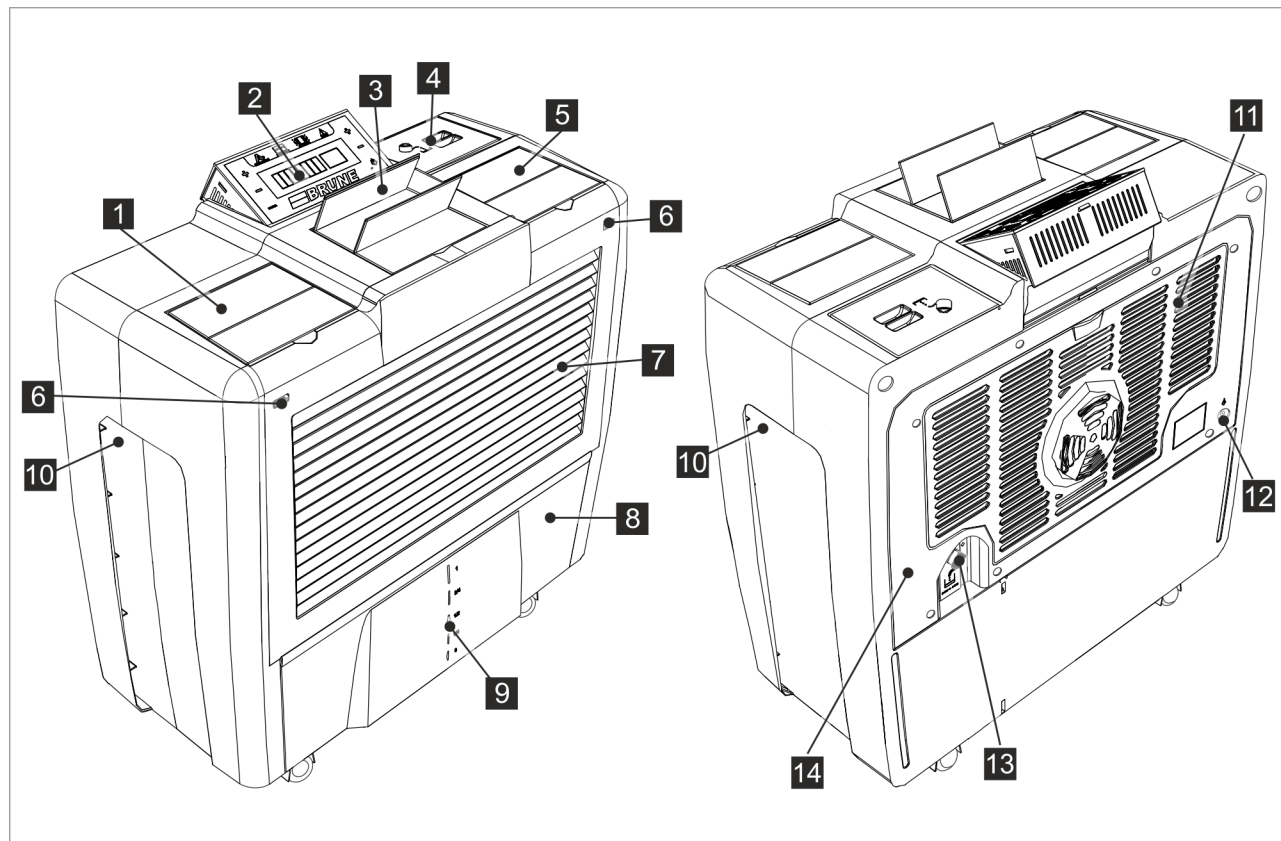


Fig. 1: Overview of the humidifier

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

#### Function

The humidifier works according to the principle of evaporation. The interior evaporator drum turns within the water container, thus taking up humidity. A fan sucks in room air and humidified air is returned to the room. The air flows through the cleaning filter and the evaporator filter. The cleaned and humidified air is blown back into the room. A UV lamp inside the unit should reduce contamination.

## 1.2 Control and display elements

### Operation

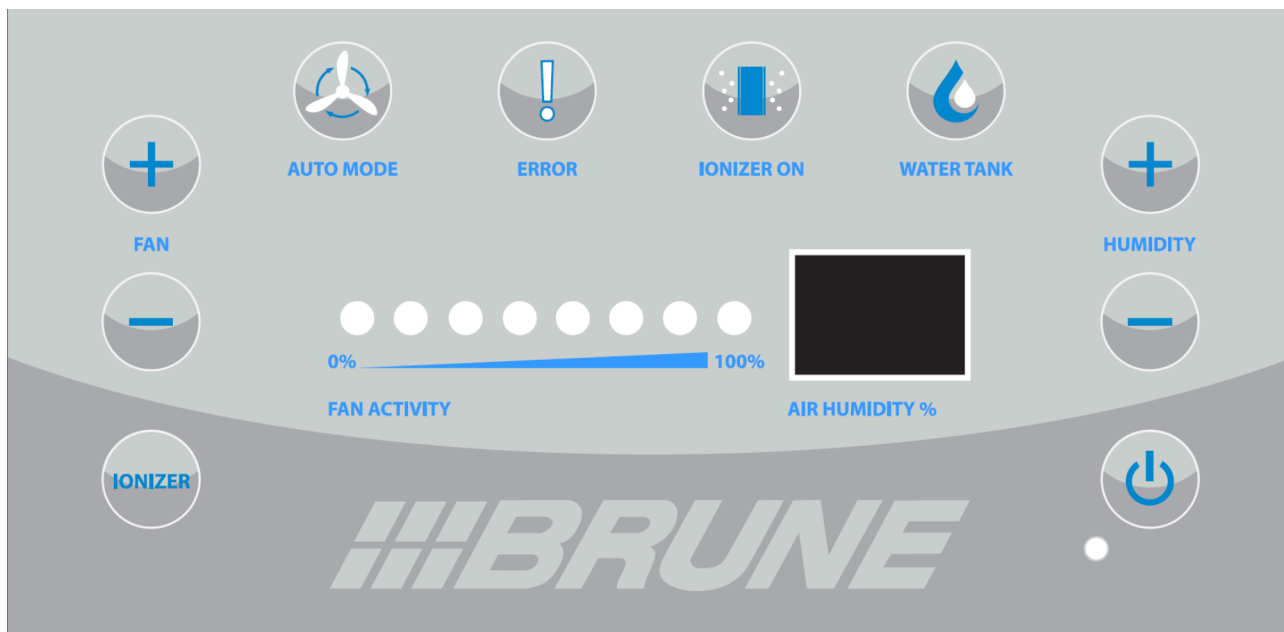










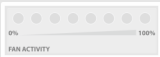



Fig. 2: Control panel

### Control elements

Symbol	Description	Operation
	FAN +	■ Increase fan speed.
	FAN -	■ Decrease 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	■ Switch on humidifier. ■ Switch to standby mode. In standby mode, the LED lights up red.

## Display elements

Symbol	Description	Display
	AUTO MODE	■ Red: automatic mode is running ↗ <i>'Automatic fan mode' on page 18.</i>
	ERROR	■ Red: an error has occurred ↗ <i>'Fault table' on page 37.</i>
	IONIZER ON	■ Red: ionisation function is running ↗ <i>'Switching ionisation on/off' on page 19.</i>
	WATER TANK	■ Red: tank empty. Fill up with water ↗ <i>on page 16.</i> ■ Green: tank full. Stop filling. ■ Off: fill level sufficient for operation.
	FAN ACTIVITY	■ Current speed level of the fan ↗ <i>'Setting the fan speed' on page 18.</i>
	AIR HUMIDITY %	■ Current value of the relative humidity.
	AIR HUMIDITY % with button HUMIDITY - (+) or HUMIDITY - (-) pressed	■ Set target value of the relative humidity.
	AIR HUMIDITY % with simultaneous illumination of the ERROR (⚠) display	■ Error number ↗ <i>'Fault table' on page 37</i>

## 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	8	bar
Airflow	max. 500	m³/h



Data	Value	Unit
Evaporation performance	max. 1.2	l/h
Noise level	32 – 44	dB(A)

**Operating conditions**

Data	Value	Unit
Temperature	10 – 40	°C
Relative humidity	15 – 80	%

## 2 Safety

### 2.1 Symbols in these instructions

#### Safety information

Safety instructions are marked with symbols in these instructions. The safety instructions are introduced by signal words which express the extent of the danger.



#### **DANGER!**

This combination of symbol and signal word indicates an immediately-dangerous situation which will cause death or severe injuries if not avoided.



#### **DANGER!**

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

This combination of symbol and signal word indicates an immediately-dangerous situation which will cause death or severe injuries from electric current if not avoided.



#### **WARNING!**

This combination of symbol and signal word indicates a possibly-dangerous situation which could cause death or severe injuries if not avoided.



#### **NOTICE!**

This combination of symbol and signal word indicates a possibly-dangerous situation which could cause material and environmental damage if not avoided.

### 2.2 Intended use

The evaporative humidifier B 280 serves exclusively to humidify and clean room air.

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.

## Non-intended use



### **WARNING!**

#### **Danger from non-intended use!**

Non-intended use of the evaporative humidifier B 280 may lead to dangerous situations or damage to the unit and fixtures.

- Only fill up the humidifier with normal tap water (max. 30 °C) or with treated water.
- Do not add any essential oils or other flammable liquids.
- Do not use scented or aromatic substances.
- Never cover the unit.
- Never place objects on the humidifier. This is particularly the case for electrical equipment or containers filled with liquids.
- Do not climb or sit on the unit.
- Do not transport objects with the unit.
- Do not use the humidifier in rooms with air containing dust, microbes or chemicals.

## 2.3 Dangers resulting from the humidifier

The humidifier is state-of-the-art and designed in accordance with current safety regulations. However, residual dangers that require careful negotiation still remain. In the following section, the residual risks and the resulting behaviour and measures are listed.

## Electric current



### **DANGER!**

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

Electric shock from touching voltage-carrying parts of the power supply poses an immediate danger to life. Damage to the insulation or individual components can endanger life.

- Keep damp away from voltage-carrying parts. This could otherwise lead to a short circuit.
- Always pull out the mains plug before cleaning work and fault rectification.
- Never immerse the unit in water.
- Never point the outlet port towards electrical equipment or sockets.
- Never touch the mains plug with damp hands. When pulling out the mains plug, always do so by the plug and never by the cable.
- Always locate the mains cable in such a way that it cannot come into contact with heat sources, dampness, oil, sharp objects, sharp corners etc.

Dangers resulting from the humidifier

### Particular groups of person and children



#### **WARNING!**

##### **Danger for particular groups of person and children!**

This unit is not intended for use by persons (including children) with restricted physical, sensory or mental capacities or who lack the relevant experience and/or knowledge.

- Supervise children to ensure that they do not play with the unit.
- Packaging material must not be used to play with. There is a danger of suffocation.
- Keep batteries away from children.


### Insufficient cleaning



#### **WARNING!**

##### **Danger to health from insufficient cleaning!**

Bacteria and germs may be released due to insufficient cleaning.

- Replace the evaporator filter after three months at the latest.
- Always adhere to the time intervals described in  *Chapter 4 'Cleaning and care' on page 24* for cleaning, filter changes and water changes.
- In the case of severe contamination of the room air and the water, shorten the maintenance intervals accordingly.

### Excessive humidification



#### **WARNING!**

##### **Danger to health from excessive humidification!**

Excessively humidified air favours the formation of mould and health-damaging germs.

- Never exceed the recommended value of 50 – 60 % air humidity in living spaces.
- To prevent health damage, persons with asthma, respiratory diseases or lung infections should consult a doctor before using the humidifier.
- Do not place the unit in the vicinity of objects that absorb water, such as curtains, wall-paper and carpet.

## UV lamp



### **WARNING!**

#### **Danger of injury from mercury in UV lamps!**

During improper transport, operation or lifting, mercury can escape from the UV lamp. Contact with mercury can lead to severe poisoning, skin irritation and eye damage.

- Always lift UV lamps containing mercury carefully.



### **WARNING!**

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

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

- **Pull out the mains plug before changing the UV lamp.**
- Do not look at the switched on UV lamp.
- 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!**

#### **Danger of injury from incorrect handling of batteries!**

If batteries are handled incorrectly, there is a danger of the batteries exploding or health-damaging liquids escaping from the batteries. The liquid can cause burns to the skin if it comes into contact with skin, severe poisoning if swallowed and blinding if it comes into contact with eyes.

- Never attempt to charge the batteries.
- Never short-circuit the contacts (positive and negative terminals) of the battery.
- Never expose the batteries to moisture or dampness (rain, salt-water, liquids). A damp or wet battery must not be used under any circumstances.
- Never use or store batteries in areas in which potentially explosive atmospheres prevail or high temperatures could occur.
- Never attempt to solder, repair, adapt, disassemble or change the shape of batteries.
- Always keep batteries away from unauthorised persons.
- To avoid fire, overheating, explosion or the leakage of liquids, never expose batteries to severe shaking, high weight loads or other harmful effects. Leaking fluids can ignite.

- After eye contact with leaked liquid, rinse the eye immediately with clear water for 15 minutes, including beneath the eyelid. In doing so, aim a mild water jet directly into the eye and do not rub it. Seek medical help immediately.
- Avoid skin contact with leaking liquid. In the event of accidental skin contact, rinse the affected area of skin with water and soap.

### Unsuitable installation location



#### **NOTICE!**

**Danger of material damage from the incorrect placement of the humidifier!**

- Only locate the humidifier on even, sufficiently strong, moisture-resistant ground.
- Do not place the unit in the vicinity of objects that absorb water (e.g. curtains, wall-paper, carpet).

## 2.4 Environmental protection



#### **NOTICE!**

**Danger to the environment from improper handling of environmentally hazardous materials!**

Serious environmental damage could result from the incorrect handling of materials, particularly improper disposal.

- Always observe the information listed below on the handling of environmentally hazardous materials and their disposal.

**The following environmentally hazardous materials are used:**

### **Batteries**

Batteries contain poisonous heavy metals. They are subject to special waste treatment and must be handed over to communal collection points or disposed of by a specialist company.

### **UV lamps**

UV lamps are hazardous waste and due to their mercury content, they must not be disposed of with regular waste. Disposal must be carried out by a certified waste disposal company.

## 3 Transport and start-up

### 3.1 Transport and set-up

#### Installation location

- Only locate the humidifier on even, sufficiently strong, moisture-resistant ground.
- Ensure that the circulation of air is guaranteed. The air inlet and air outlet must not be covered.
- The distance to other objects in the must be at least 10 cm to the side and at least 20 cm above.
- To ensure optimal function, the unit can be located close to a heat source. However, the temperature influence must not exceed 50 °C.

A safety collection basin must be used on water-sensitive ground.

#### Moving the humidifier

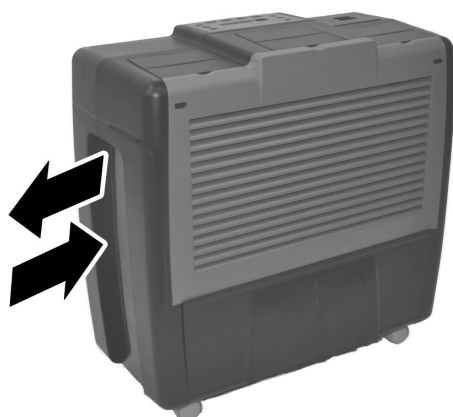


Fig. 3: Moving the humidifier



#### NOTICE!

##### **Danger of material damage from tipping the humidifier!**

If the humidifier is moved, there is a danger of the unit tipping. This can lead to material damage to the unit or the ground.

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

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

#### Lifting the humidifier



#### WARNING!

##### **Danger while lifting the humidifier!**

- Always empty the water container before changing location.
- Only lift up the humidifier while working as a pair.

### 3.2 Preparing the humidifier for operation

#### Power supply



Fig. 4: Connecting to the power supply

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



#### **Damaged mains cable!**

*If the mains cable of this unit is damaged, it must be replaced by a particular connecting cable!*


- This is available from the manufacturer or the customer service department.

2. ➤ Connect the power supply to the connecting socket (Fig. 4/1) on the humidifier.
3. ➤ Insert the mains plug.

#### Filling the water container




Fig. 5: Filling the water container

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




#### **NOTICE!**

#### **Danger of material damage from over-filling the humidifier!**

There is a threat of the water container overflowing if the WATER TANK  display lights up green and filling continues.

#### Waterfresh (optional)

The water container can also be filled with Waterfresh to reduce the build-up of germs and algae and calcifications. Observe the information provided on the packaging of Waterfresh regarding dosage, use and disposal.

Waterfresh can be obtained from our customer service department ( 'Customer service' on page 4).

Order numbers:

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





### NOTICE!

#### Environmental damage from biocides!

Biocides contained in the Waterfresh are harmful to the environment in large quantities.

- Use biocides carefully.
- Obtain information on environmentally-friendly disposal from the local authority or a special certified waste disposal company.
- Always read the labelling and product information before use.

### Water connection (optional)

As an alternative to filling up the water container manually, the humidifier can be connected to the water network. Have the humidifier connected via the solenoid valve on the rear by a qualified sanitary engineer.

### Additional safety equipment

In order to reduce the risk of material damage, the following safety equipment is recommended:


- Safety collection basin
- Pressure hose with Aquastop

## 3.3 Starting up the humidifier

### Switching on the humidifier

- ➔ Press the STANDBY  button.
- ⇒ The humidifier is switched on.

### Standby

- ➔ Press the STANDBY  button.
- ⇒ The humidifier is on standby. In standby mode, the LED lights up red.

### Switching off

To safely switch off the humidifier for maintenance or an extended standstill:

- ➔ Pull out the plug.
- ⇒ The humidifier is switched off.

### Excessive humidification



### WARNING!

#### Danger to health from excessive humidification!

Excessively humidified air favours the formation of mould and health-damaging germs.

- Never exceed the recommended value of 50 – 60 % air humidity in living spaces.

### Setting the relative humidity

The target value of the relative humidity can be set within the range of 30 % to 90 %.

- ➔ Set the relative humidity to the desired target value with the HUMIDITY + and HUMIDITY - buttons.

⇒ The AIR HUMIDITY %  display shows the selected value.

### Setting the fan speed

The air mass flow and with it, the humidifier performance can be set via the fan speed, for example: in large rooms, select a higher speed level.


- ➔ Set the desired speed level of the fan via the FAN + and FAN - buttons.

⇒ The FAN ACTIVITY  display shows the selected speed level.

The humidifier runs at the selected fan level until the selected target value of relative humidity is reached.

### Automatic fan mode

In automatic mode, the humidifier regulates the fan speed automatically according to the performance requirement until the desired value of relative humidity has been reached.

- ➔ Select the target value of the relative humidity with the HUMIDITY + and HUMIDITY - buttons.
- ➔ Press and hold the FAN - button until the AUTO MODE  display lights up.

⇒ Automatic mode is switched on.

### Switching the button lock on/off

- ➔ To switch on the button lock, press the HUMIDITY + and HUMIDITY - buttons simultaneously until the display flashes once.





⇒ The button lock is activated.

- ➔ To switch off the button lock, press the HUMIDITY + and HUMIDITY - buttons simultaneously until the display flashes once.

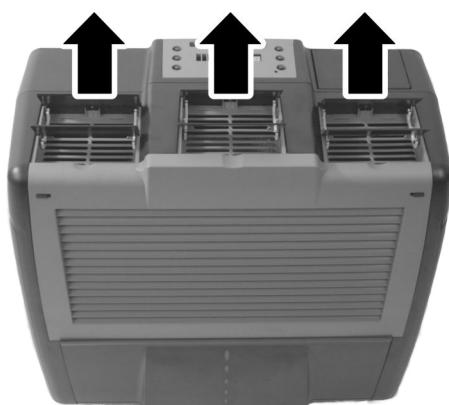
⇒ The button lock is deactivated.

### Switching ionisation on/off

Ionisation cleans the room air. Ions occur naturally as positively or negatively charged particles. The ion concentration and the ratio between positively and negatively charged ions are decisive for the air quality. Polluted air in living and work area is low in negatively charged ions. Through ionisation, negatively charged ions are emitted which combine with dust particles to form so-called clusters and are withheld in the filter.

- ➔ To turn on ionisation, press the IONIZER  button.
  - ⇒ Ionisation is switched on. The IONIZER ON  display illuminates.
- ➔ To turn off ionisation, press the IONIZER  button.
  - ⇒ Ionisation is switched off. The IONIZER ON  display goes out.

### Ventilation flaps



- ➔ To enable improved distribution of the humidified air in the room, open the ventilation flaps on the upper surface of the unit (Fig. 6).

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

Fig. 6: Opening the ventilation flaps

## 3.4 Starting up the remote sensor system (optional accessories)

### Measuring the humidity

The remote sensor system measures the relative humidity in the room and transmits this via radio to the humidifier. This enables a more exact measurement than by measuring with the sensors installed in the unit, with which deviating measurement results may occur due to dampness within the unit.



*Start up of the remote sensor system is recommended if precise control of the humidity is required.*

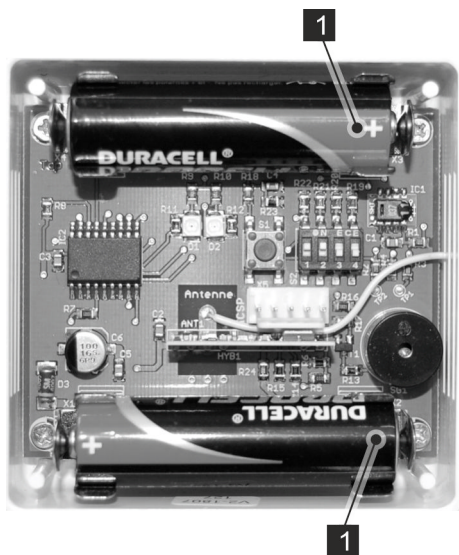
Starting up the remote sensor system (optional accessories)

### Starting up the remote sensor system



Fig. 7: Opening the cover

1. Carefully lift up and remove the cover of the remote sensor system with a small screwdriver (Fig. 7).



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

Fig. 8: Replacing the batteries

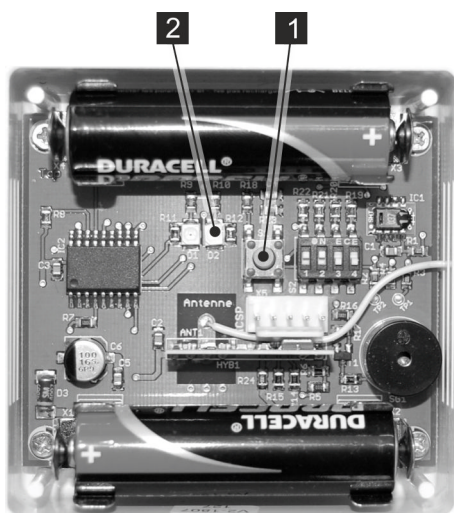


Fig. 9: Checking the functionality

### Possibilities of coding

The humidifier and the remote sensor system are coordinated with each other via a code. The units are supplied pre-coded from the factory. However, if two or more units are situated in close proximity to each other (0 – 30 m), a different coding may be required.

If multiple units are operated in one room, the following possibilities are available:

- Multiple units are operated by one sensor. All units must have the same coding.
- Each unit is controlled by a separate sensor. All units must have different coding.

### Coding the remote sensor

The sliders for the coding can be found on the respective circuit boards of the humidifier and remote sensor system. Each slider has only the “ON = above” and “OFF = below” positions. Accordingly, there are 16 different coding variations.



*The coding of the humidifier and the corresponding remote sensor system must agree exactly. Otherwise, the function is not guaranteed.*

### Coding the remote sensor system

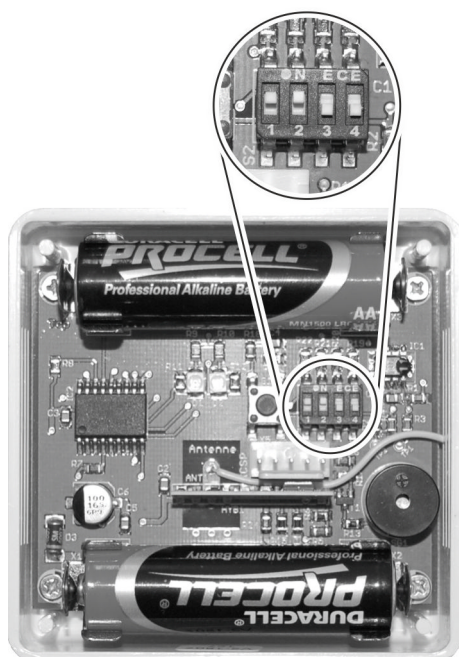


Fig. 10: Slider for coding

1.



#### NOTICE!

##### Material damage from short circuit!

- Only code the remote sensor system with a non-metallic object.

Code the remote sensor system by adjusting the slider with a suitable non-metallic object.

2.

Confirm the coding by pressing the small, black button.

3.

Close the cover of the remote sensor system again.

### 3.5 Coding the humidifier

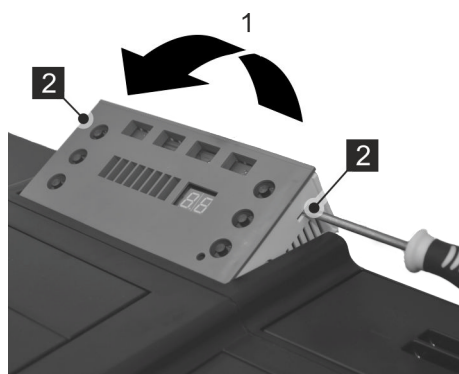


Fig. 11: Opening the control panel

1.

Switch off the unit and pull out the mains plug.

2.

Fold up the control panel (Fig. 11/1).

3.

Loosen the catches on both sides (Fig. 11/2) with a screwdriver.

4.



#### NOTICE!

The electronics of the control panel are very sensitive. Ensure that you do not touch the electronics and damage components.

Open the control panel.

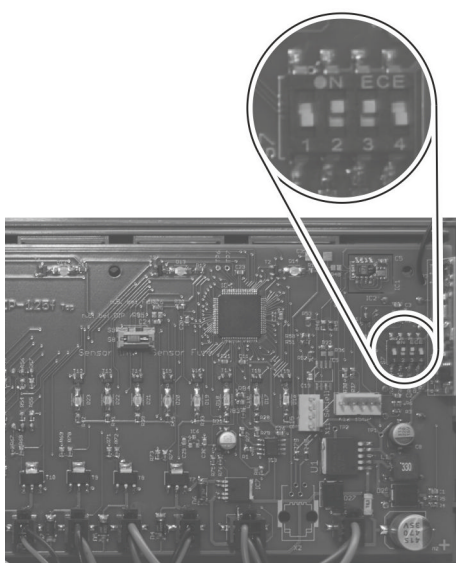


Fig. 12: Coding the humidifier

5. ➔



## NOTICE!

### Material damage from short circuit!

- Only code the humidifier with a non-metallic object.

Code the humidifier (Fig. 12). To do so, carefully move the slider on the rear of the circuit board to the same position as that of the remote sensor system using a suitable, non-metallic object.

6. ➔

Close the control panel again.

7. ➔

Insert the mains plug and switch on the unit.

8. ➔

Check the function of the system. To do so, carefully breathe into an opening in the housing of the remote sensor system.

⇒ The current value of the relative humidity of the AIR HUMIDITY % ■ display changes. The remote sensor system is ready for operation.

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



## 4 Cleaning and care

### 4.1 Maintenance table

#### UV light



#### **WARNING!**

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

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

#### Moving parts



#### **WARNING!**

#### **Danger of injury from moving parts!**

The rotating fan can cause hand injuries.

#### Maintenance work

**Before maintenance work, disconnect the unit from the mains.**

The frequency of the maintenance work depends upon the air and water quality at the installation location. Where appropriate, observe the recommended maintenance intervals.

Interval	Maintenance work
Monthly	Change the water and clean the tank ( ↗ Chapter 4.3 'Changing the water and cleaning the tank' on page 28).
	Clean the inner side walls with a damp cloth ( ↗ Chapter 4.3 'Changing the water and cleaning the tank' on page 28).
	From the outside, carry out a visual inspection of the UV lamps on the rear.
Every 3 months	Change the evaporator filter ( ↗ Chapter 4.4 'Changing the evaporator filter' on page 29).
	Change the cleaning filter ( ↗ Chapter 4.5 'Changing the cleaning filter' on page 32).
Every 6 months	<b>Only at the water connection via the pressure pipe:</b> Carry out a visual inspection of the solenoid valve for the water connection. Remove any contamination. In the case of significant contamination, have the solenoid valve changed by a qualified sanitary engineer.
Annually	Clean thoroughly with descaler ( ↗ Chapter 4.3 'Changing the water and cleaning the tank' on page 28).

### 4.2 Opening and closing the front

The front must be opened for the following maintenance work:



- Changing the water.
- Cleaning the tank.
- Cleaning the inner side walls.
- Changing the evaporator filter.

### Opening the front



Fig. 13: Releasing the locks

1. → Slide the locks (Fig. 13/1) of the outlet grille inwards on both sides.

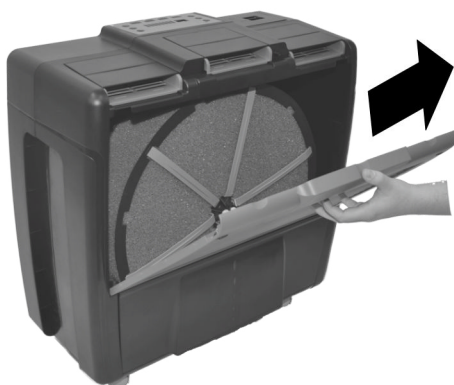


Fig. 14: Lifting off the outlet grille

2. → Lift off the outlet grille outwards (Fig. 14).

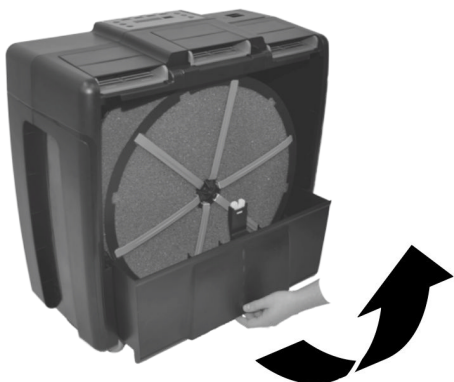


Fig. 15: Pulling out the tank and filter drum

3. →



#### NOTICE!

##### **Danger of tipping!**

Danger of material damage from leaking water.

- While pulling out the water tank, ensure that the unit does not tip up.

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

### Closing the front



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

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

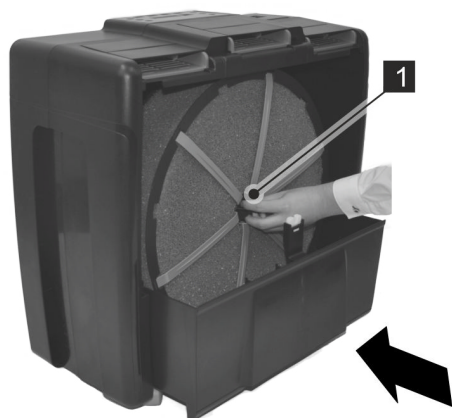


Fig. 17: Sliding the filter drum onto the drive

2. →



#### NOTICE!

##### **Danger of tipping!**

Danger of material damage from leaking water.

- While inserting the water tank, ensure that the unit does not tip up.

Slide the water container into the unit and simultaneously slide the filter drum onto the drive (Fig. 17/1).

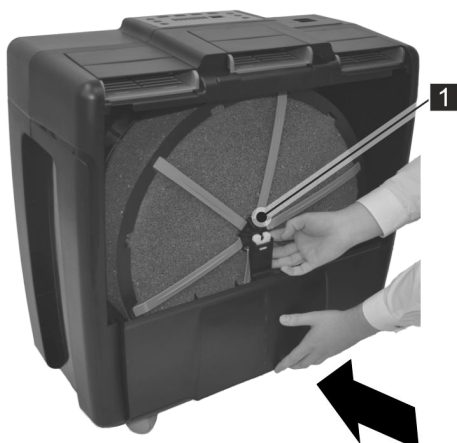


Fig. 18: Fixing the filter drum in place

3. → Press the water container in place and in doing so, fix the hub of the water drum in place with the mounting of the tank (Fig. 18/1).

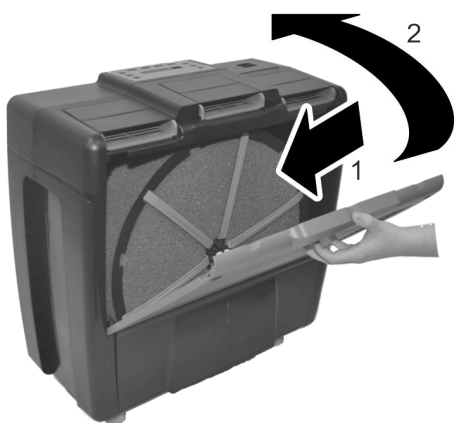


Fig. 19: Closing the outlet grille

4. → Insert the outlet grille into the guides (Fig. 19/1) and press it onto the unit (Fig. 19/2).



Fig. 20: Locking the front

5. → Slide the locks (Fig. 20/1) of the outlet grille outwards on both sides.

### 4.3 Changing the water and cleaning the tank



#### NOTICE!

Do not use abrasive, corrosive or soap-containing 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.

Optima descaler

■ Order number: 9016

1. ➤ Open the front (☎ on page 24).
2. ➤ Empty the water container.
3. ➤ Clean the water container with a damp cloth.
4. ➤ Clean the inner walls of the humidifier with a damp cloth.
5. ➤ Clean the filter drum of the evaporator filter with a damp cloth.
6. ➤ Close the front (☎ on page 26).
7. ➤ Fill up the water container (☎ on page 16).

### 4.4 Changing the evaporator filter

The suitable evaporator filter (order number: 6550) can be obtained from our customer service department (☎ 'Customer service' on page 4).

1. ➡ Open the front (☞ on page 24).
2. ➡ Remove the filter drum (Fig. 21).



Fig. 21: Removing the filter drum

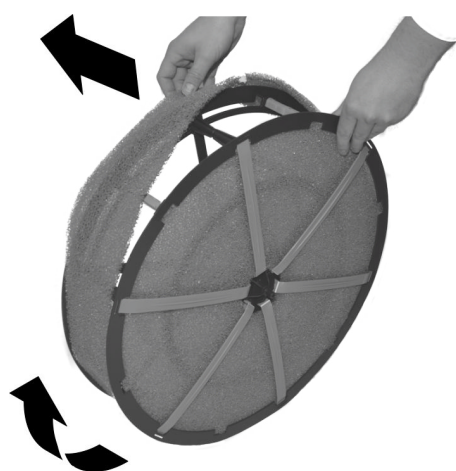


Fig. 22: Removing the outer evaporator filter

3. ➡ Remove the outer evaporator filter (Fig. 22).

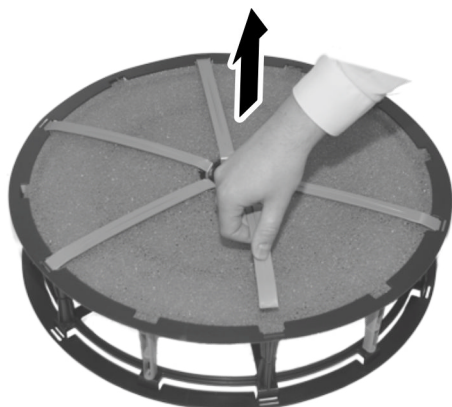


Fig. 23: Releasing the terminal strips

4. ➤ Release the terminal strips from the filter drum and fold them up (Fig. 23).



Fig. 24: Removing the inner evaporator filter

5. ➤ Remove the inner evaporator filter (Fig. 24).  
6. ➤ If the filter drum is contaminated, clean it with a damp cloth.

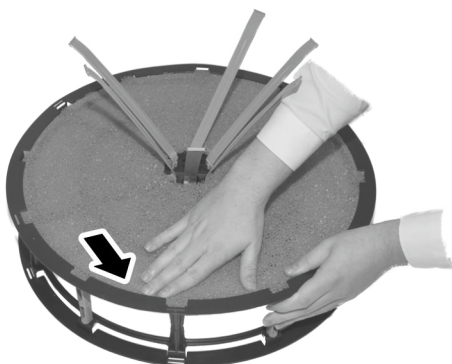


Fig. 25: Laying down the evaporator filter and fixing it in place

7. ➤ Pull the new inner evaporator filter tight with the terminal strips (Fig. 25).  
8. ➤ Slide the outer edge of the evaporator filter beneath the edge of the filter drum.



Fig. 26: Fastening the terminal strips

- 9.** ➔ Fold down the terminal strips and lock them into place (Fig. 26).

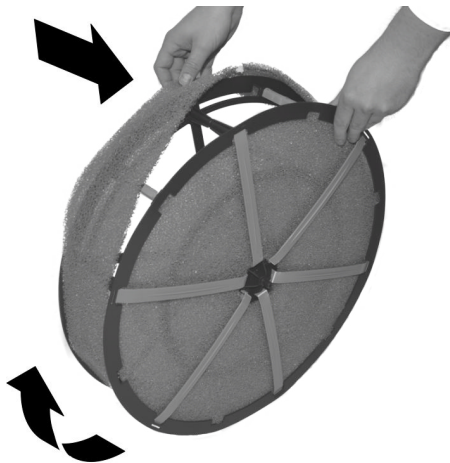


Fig. 27: Laying the outer evaporator filter

- 10.** ➔ Carefully pull the new outer evaporator filter over the filter drum (Fig. 27); it may tear.
- 11.** ➔ Close the front (🔗 on page 26).

### 4.5 Changing the cleaning filter

The suitable cleaning filter (order number: 6551) can be obtained from our customer service department (☎ 'Customer service' on page 4).

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



Fig. 28: Opening the intake grille

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

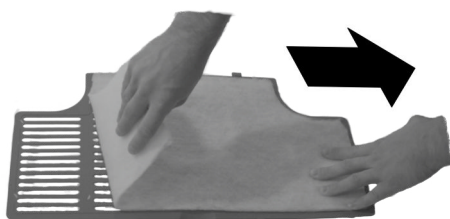


Fig. 29: Removing the cleaning filter

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

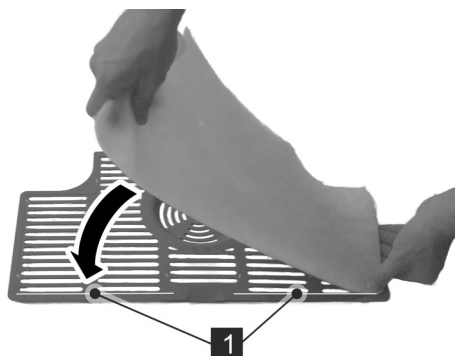


Fig. 30: Sticking down the cleaning filter





Fig. 31: Closing the intake grille

4. → Close the intake grille. To do so, insert the two lower guides into the respective holes and press on the individual fixing points until they engage (Fig. 31).

### 4.6 Changing the UV lamp (optional accessories)

#### UV lamp



#### **WARNING!**

##### **Danger of injury from mercury in UV lamps!**

During improper transport, operation or lifting, mercury can escape from the UV lamp. Contact with mercury can lead to severe poisoning, skin irritation and eye damage.

- Always lift UV lamps containing mercury carefully.



#### **WARNING!**

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

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

- **Pull out the mains plug before changing the UV lamp.**
- Do not look at the switched on UV lamp.
- 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.

The suitable UV lamp (order number: 6210) can be obtained from our customer service department (☎ *'Customer service'* on page 4).

1. ➤ Loosen the screws of the rear wall of the housing (Fig. 32).
2. ➤ Place the rear wall of the housing to one side.

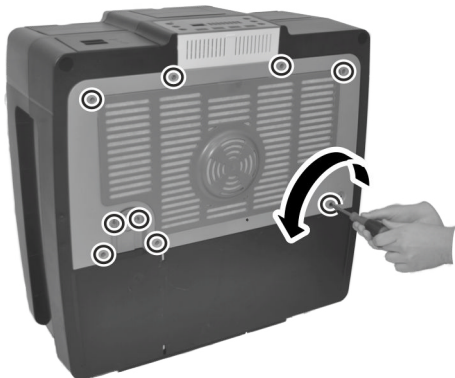


Fig. 32: Opening the rear

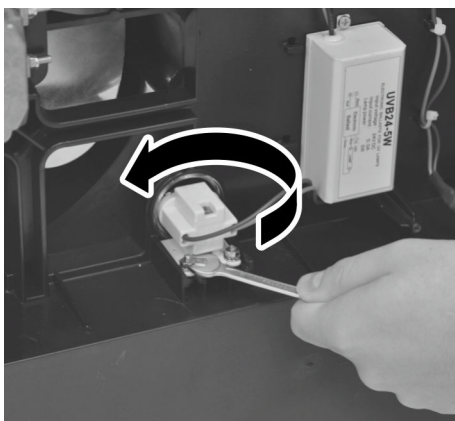


Fig. 33: Loosening the nuts of the lamp holder

3. ➤ Loosen the nuts of the lamp holder with a wrench SW 7 (Fig. 33).

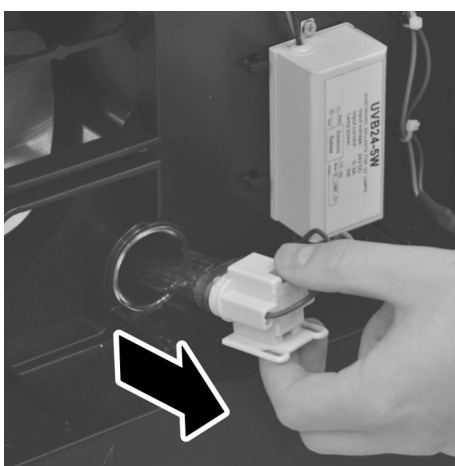


Fig. 34: Removing the UV lamp

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

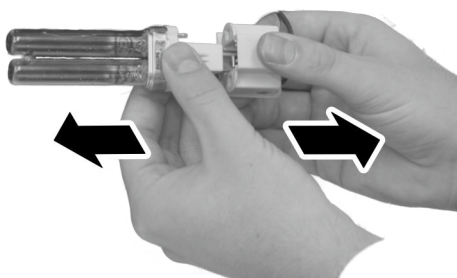


Fig. 35: Pulling out the UV lamp

5. ➔ Pull the old UV lamp out of the holder (Fig. 35).

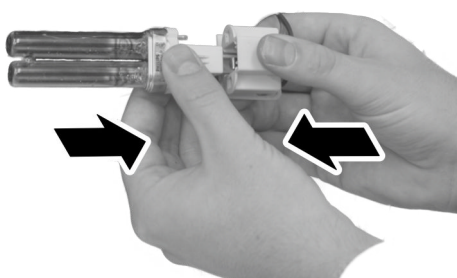


Fig. 36: Inserting the UV lamp

6. ➔



**NOTICE!**

**Danger of damage to the UV lamp!**

Touching the bulb can damage the UV lamp

- Do not touch the bulb!
- Only touch the UV lamp on the base

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

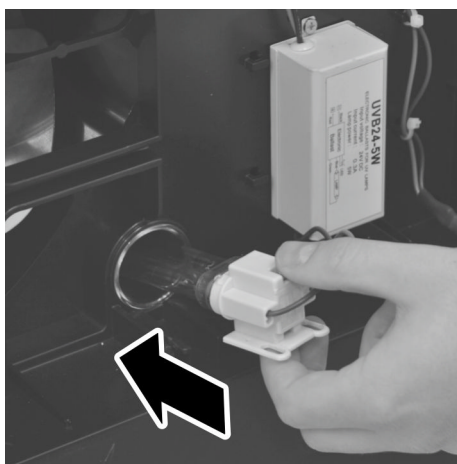
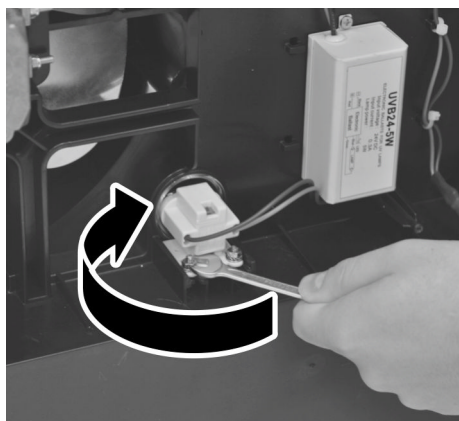


Fig. 37: Sliding a new UV lamp into the opening

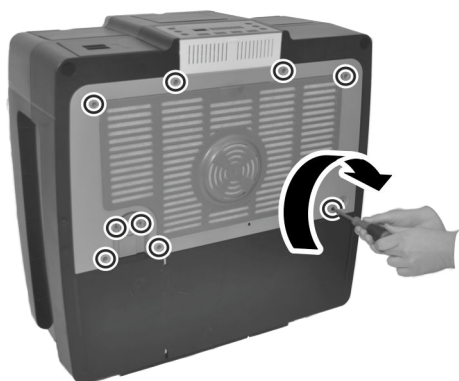
7. ➔ Slide the UV lamp and holder into the opening (Fig. 37).

Changing the UV lamp (optional accessories)



*Fig. 38: Tightening the nuts of the lamp holder*

**8.** ➤ Tighten the nuts with a wrench SW 7 (Fig. 38).




*Fig. 39: Closing the rear*

**9.** ➤ Close the rear wall of the housing.

**10.** ➤ Close the rear wall of the housing and tighten the screws (Fig. 39).

## 5 Rectifying problems

### Fault table

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

Error number	Description	Remedial action
F1	Front housing cover not closed	Close the housing cover.
F2	Tank empty	Fill up with water.
F3	Tank sensor faulty	Contact the customer service department.
F4	Humidity sensor faulty	Contact the customer service department.
F5	No radio reception (remote sensor system, optional accessories)	Check the radio transmitter and if necessary, change the batteries.
F9	Multiple faults present	Carry out the remedies for faults F1 to F5.  If the fault still exists, contact the customer service department.

Other malfunctions	Remedial action
Water leak	<ul style="list-style-type: none"> <li>■ Pull out the mains plug.</li> <li>■ Empty the water container.</li> <li>■ Contact the customer service department.</li> </ul>
Severe calcification	<ul style="list-style-type: none"> <li>■ Clean the humidifier more regularly.</li> <li>■ Use descaler during cleaning.</li> <li>■ Use treated water instead of tap water.</li> </ul>
Development of odours	<ul style="list-style-type: none"> <li>■ Change the water more regularly.</li> <li>■ Clean the humidifier more regularly.</li> <li>■ Use Waterfresh.</li> <li>■ Replace the filter.</li> </ul>

### Repairs

Repairs may only be carried out by the service department of the manufacturer (🔧 'Customer service' on page 4) or by trained electricians.

## 6 Disposing

If no return or disposal agreement was made, send dismantled components to 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 from improper disposal!**

Improper disposal may endanger the environment.



- Batteries and mercury-containing UV lamps must not be disposed of in domestic waste.
- Dispose of batteries and mercury-containing UV lamps at local collection points.
- Have approved specialist companies dispose of electrical waste and electronic components.
- If in doubt, obtain information on environmentally-friendly disposal from the local authority or a special certified waste disposal company.

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