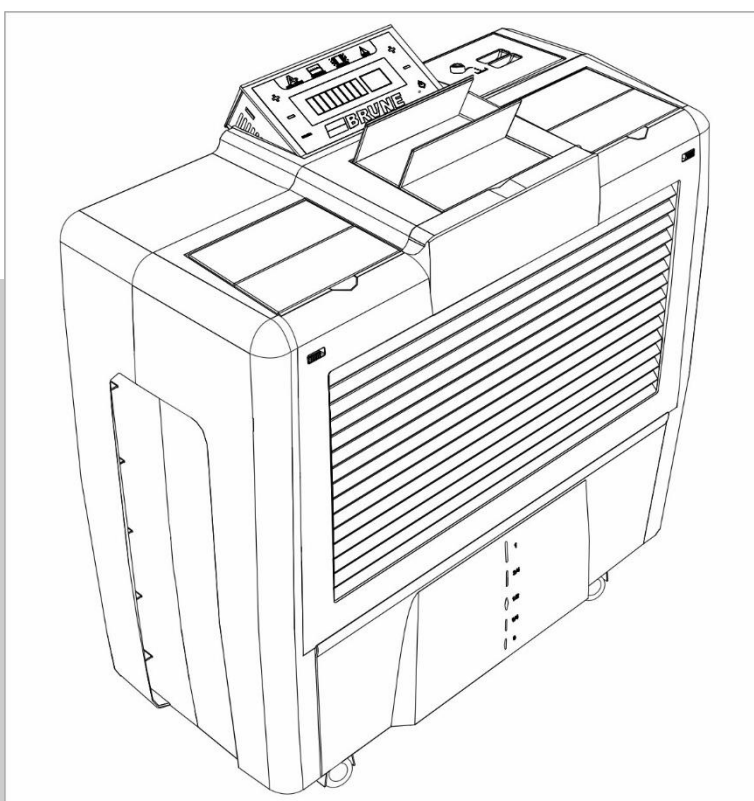


Operating manual

Brune B 280

Evaporative humidifier



BRUNE



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Use and storage of the instructions

Read these instructions carefully before you start using the Brune B 280 evaporative humidifier. Failure to follow these instructions can lead to injuries, damage to the humidifier or the equipment at the installation site.

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.

Illustrations in these instructions are provided for basic understanding and could differ from the actual version.

Information on start-up

The basic prerequisite for safe working is compliance with all stated safety and handling instructions.

In order to start up the humidifier, a connection to the mains power supply and a fill up of the water container is required (➔ 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 4 „Cleaning and care“ on page 24).

Accessories

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

- | | |
|---|-------------------------|
| ■ Pressure hose with Aquastop (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 |
| ■ Evaporator filter | order number: 6550 |
| ■ UV lamp (UV models only) | order number: 6210 |
| ■ UV lamp holder (UV models only) | order number: 6211 |
| ■ Remote Sensor System (optional retrofittable) | |

Copyright protection

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.

Customer service

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Table of contents

1	Product description	6
1.1	Overview of the humidifier	6
1.2	Control and display elements	7
1.3	Technical data.....	8
2	Safety.....	9
2.1	Symbols in these instructions	9
2.2	Intended use	9
2.3	Dangers resulting from the humidifier	11
2.4	Environmental protection	14
3	Transport and start-up.....	15
3.1	Transport and set-up.....	15
3.2	Preparing the humidifier for operation	16
3.3	Starting up the humidifier	17
3.4	Starting up the remote sensor system (optional accessories).....	20
3.5	Coding the remote sensor system	22
4	Cleaning and care	24
4.1	Maintenance table.....	24
4.2	Opening and closing the front	24
4.3	Changing the water and cleaning the tank	28
4.4	Changing the evaporator filter	29
4.5	Changing the cleaning filter	31
4.6	Changing the UV lamp (optional accessories).....	32
5	Rectifying problems.....	36
6	Disposing	37
7	Coding table.....	38
8	Index	39

1 Product description

1.1 Overview of the humidifier

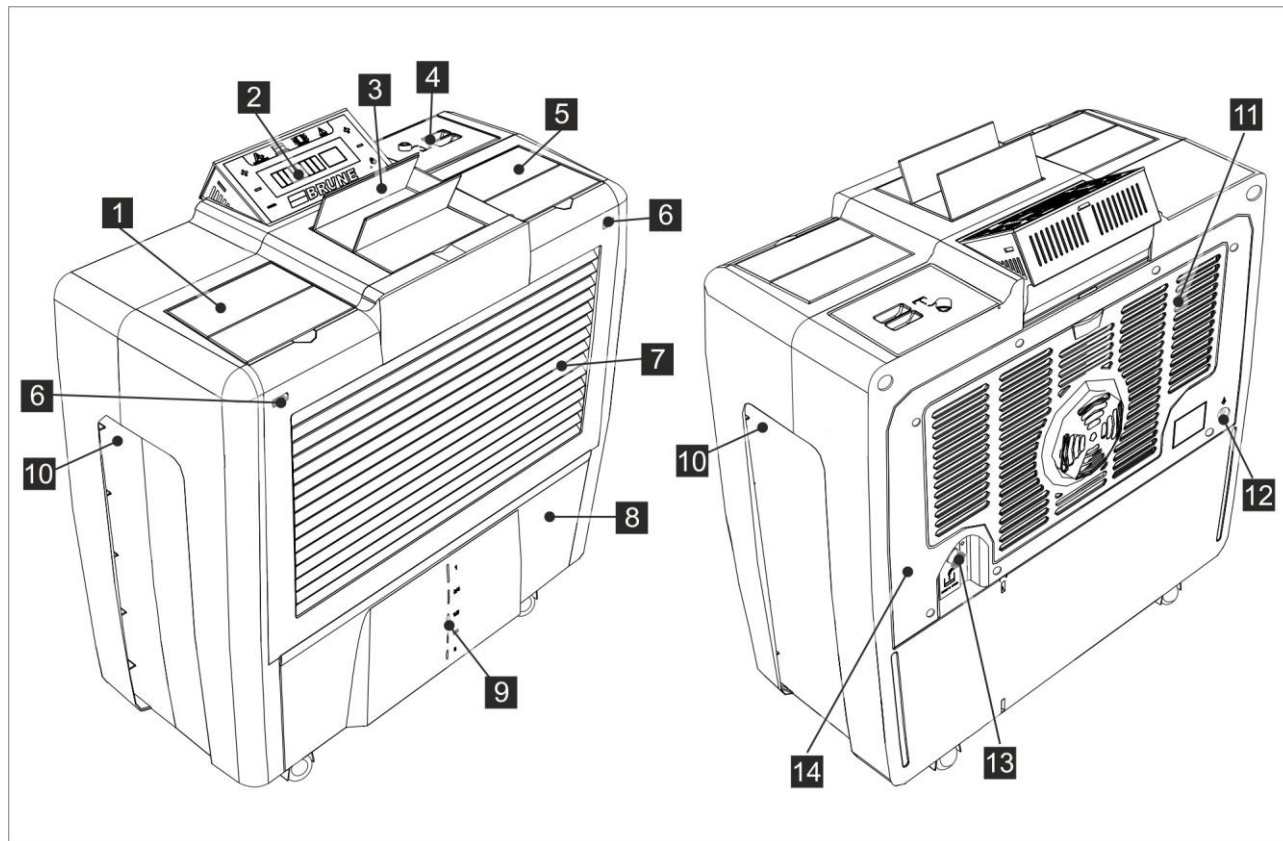


Fig. 1: Overview of the humidifier

- | | |
|------------------------------|---|
| 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. The optional UV lamp inside the unit should reduce possible contaminations.







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 / ON / OFF	■ 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 ➞ „Automatic fan mode“ on page 18.
	ERROR	■ Red: an error has occurred ➞ „Fault table“ on page 36.
	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 %	■ Current 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	■ Error number ➞ „Fault table“ on page 36

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
Noise level	32 – 44	dB (A)

Operating conditions

Data	Value	Unit
Temperature	10 – 40	°C
Relative humidity	20 – 90	%

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. 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.

Misuse



WARNING! **Danger from misuse!**

Misuse of the evaporative humidifier B 280 may lead to dangerous situations or damage to the unit and fixtures.

- Only fill the humidifiers with fresh, cold ordinary tap water (max. 150 CFU/ml).
- Do not add any essential oils or other flammable liquids.
- Only use additives approved by Brune Luftbefeuchtung Proklima GmbH.
- 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 dampness 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.

Particular groups of person and children



WARNING!

Danger for particular groups of persons 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.

Dangers resulting from the humidifier

- 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 handle 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, 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, saltwater, 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

- 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 surrounding area 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 should be used on water-sensitive grounds.

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 with two people.

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 the proper 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.
4. ➔ Turn on the device ➔ Chapter 3.3 „Starting up the humidifier“ on page 17

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 ⚙ is flashing 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)

Additionally, Waterfresh can be added to reduce the build-up of germs, 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 number:

- 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.
- Safety data sheet can be requested.

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 (AWS models only)

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 20 % to 90 %.

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

Setting the fan speed


The air 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 - button.
- ➔ Press the FAN - button multiple times until the display shows AUTO MODE .
 - ⇒ Automatic mode is switched on.
 - ⇒ To exit automatic mode, press the FAN + button once and accept the changed settings.

Switching the keylock on/off

- ➔ To switch off the keylock, press the HUMIDITY + and HUMIDITY - simultaneously until the display shows „88“.
 - ⇒ The keylock is activated.

- ➔ To switch off the keylock, press the HUMIDITY + and HUMIDITY - buttons simultaneously until the „88“ display goes out.
- ⇒ The keylock 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.

Activate/Deactivate the signal tone

Deactivate the device by pressing the Standby button. Press the Standby button again for about 5 seconds until the display shows „Ad“. Switch into the submenu „b1/b0“ by pressing the FAN + button. Press the HUMIDITY - button to activate (b1) or to deactivate (b0) the signal tone.

After the setting has been made, exit the menu by pressing the Standby button.

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



Using the remote sensor system is recommended if precise control of the humidity is required.

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).



Fig. 8: Replacing the batteries

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.

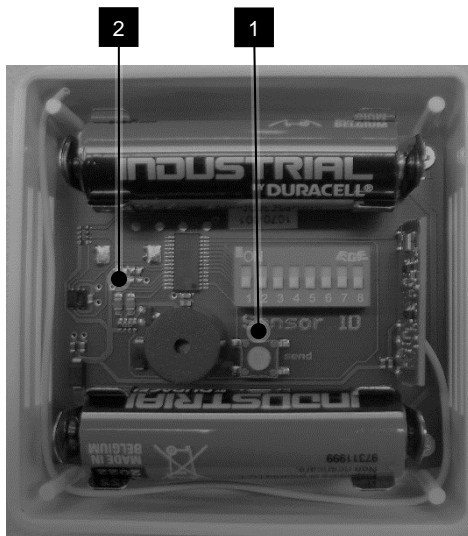



Fig. 9: Checking the functionality

3. ➔ Check the functionality of the remote sensor system. To do this, press the black button (Fig. 9/1).

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



It may take up to 3 minutes until the device receives a signal from the remote sensor system. During this process, the Display shows „--“.

- ⇒ The devices are delivered with the code "00" from the factory.
- ⇒ The value of the relative humidity of the display AIR HUMIDITY %  changes as soon as you breathe into the device.

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

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 – 20 m), different coding may be required. Please use the coding table on page 38 in the attachments for assistance.

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 = up" and "OFF = down" positions. In the coding table, "ON = above" equals with "1" and "OFF = below" equals with "0".

The user made settings can be read out on the device.



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

3.5 Coding the remote sensor system

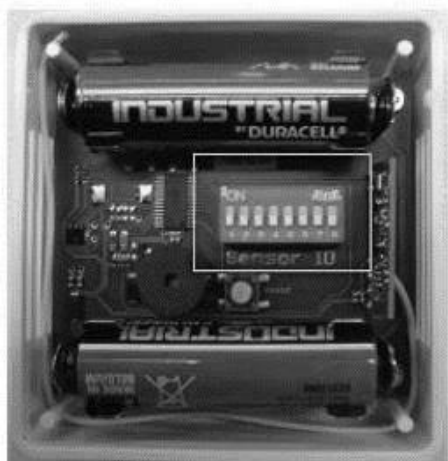


Fig. 10 Slider for coding



NOTICE!







Material damage from short circuit!

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

1. ➔ 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. The coding can be read out and selected on the device.
3. ➔ Close the cover of the remote sensor system again.



Selecting the menu

In this menu, you can select the coding of the humidifier.

Deactivate the device by pressing the Standby  button. Press the Standby  button again for about 5 seconds until the display shows  „Ad“. Select the menu by pressing the **FAN**  button. With the **HUMIDITY**  and  button changes can be made in the menu.

Connecting the radio humidity transmitter with the humidifier

Menu Ad: In this menu, the radio humidity transmitter can be paired with the device. There are 256 address codes selectable. 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 38.

With the **HUMIDITY**  and  button, the requested coding can be selected.

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

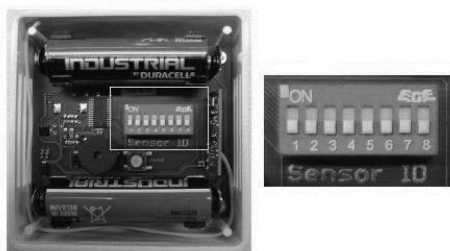



Fig. 12: Coding the humidifier

Warning: If several radio humidity transmitters are within range, different codes will be displayed.

After the setting has been made, exit the menu by pressing the Standby  button.

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
Weekly	Change the water and clean the tank (↪ <i>“Changing the water and cleaning the tank” on page 28</i>).
Monthly	Clean the inner side walls with a damp cloth (↪ <i>“Changing the water and cleaning the tank” on page 28</i>).
Monthly	Carry out a visual inspection of the UV lamps from the outside on the rear.
Every 3 months	Change the evaporator filter (↪ <i>Chapter 4.4 “Change the evaporator filter” on page 29</i>).
Every 3 months	Change the cleaning filter (↪ <i>Chapter 4.5 “Change the cleaning filter” on page 31</i>).
Every 6 months	Only with water connection via the pressure hose: 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 (↪ <i>Chapter 4.3 “Changing the water and cleaning the tank” on page 28</i>).

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

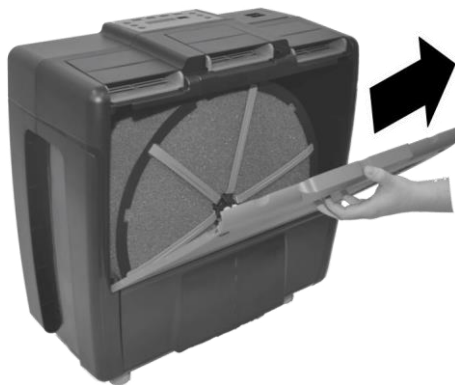


Fig. 14: Lifting off the outlet grille

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

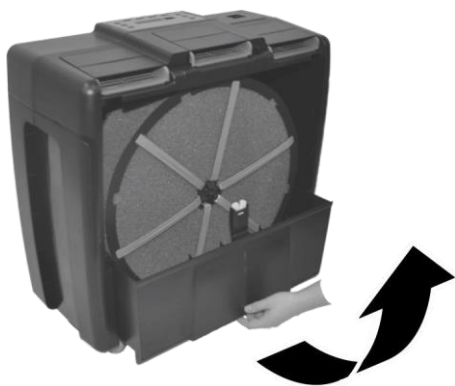


Fig. 15: Pulling out the tank and filter drum

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 over.

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).

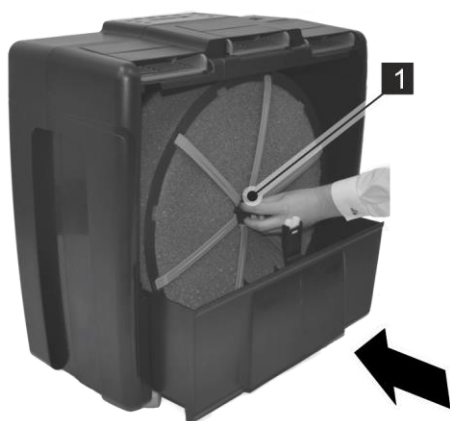


Fig. 17: Sliding the filter drum onto the drive

2. →



NOTICE!

Danger of tipping!

Danger of material damage from leaking water.
– While inserting the water tank, ensure that the unit does not tip over.

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

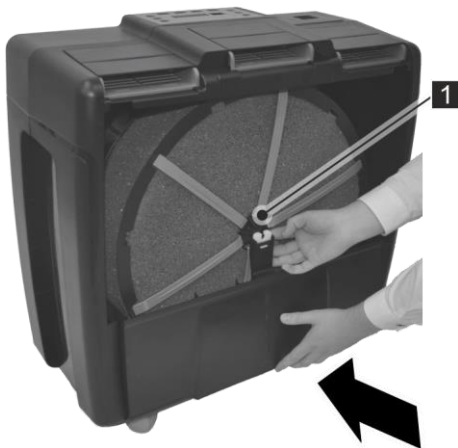


Fig. 18: Fixing the filter drum in place

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)

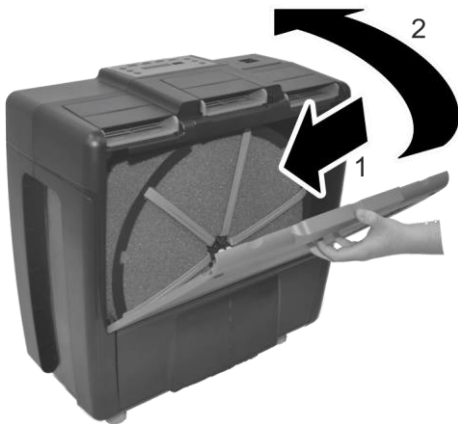


Fig. 19: Closing the outlet grille

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 (↗ *“Costumer 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 25*).
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 17*).

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 25).
2. → Remove the filter drum (Fig. 21).



Fig. 21: Removing the filter drum

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

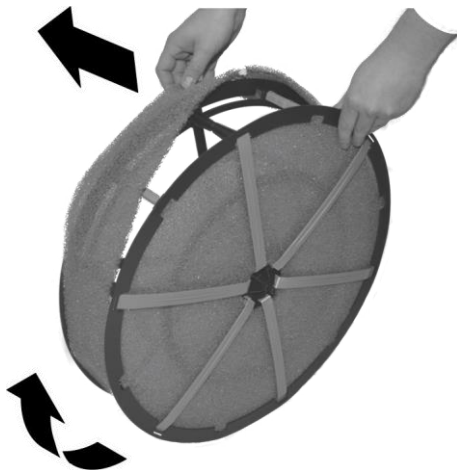


Fig. 22: Removing the outer evaporator filter

Changing the evaporator filter

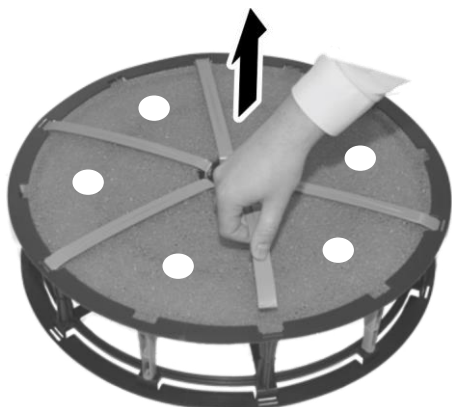


Fig. 23: Releasing the filter brackets and remove the fixing pins.

4. ➤ Release the filter brackets from the filter drum and fold them up. Remove the white fixing pins and set them aside (Fig. 23).

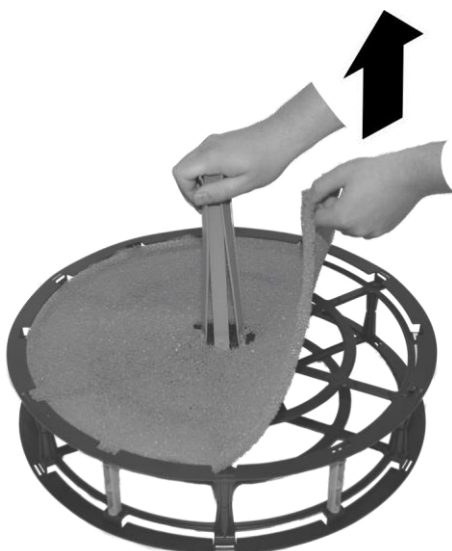


Fig. 24: Removing the inner evaporator filter

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

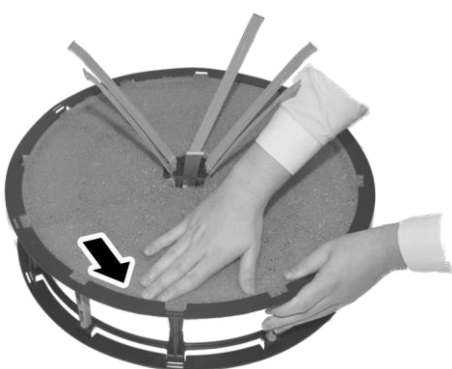


Fig. 25: Laying down the evaporator filter and fixing it in place

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



Fig. 26: Fastening the filter brackets and insert the fixing pins

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

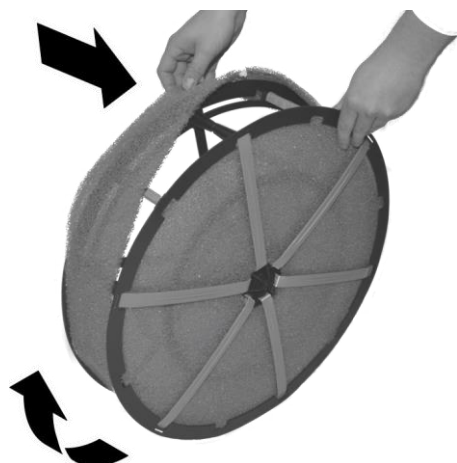


Fig. 27: Laying the outer evaporator filter

10. ➤ Carefully pull the new outer evaporator filter over the filter drum (Fig. 27), it may tear.
11. ➤ Close the front (➡ on page 27).

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).

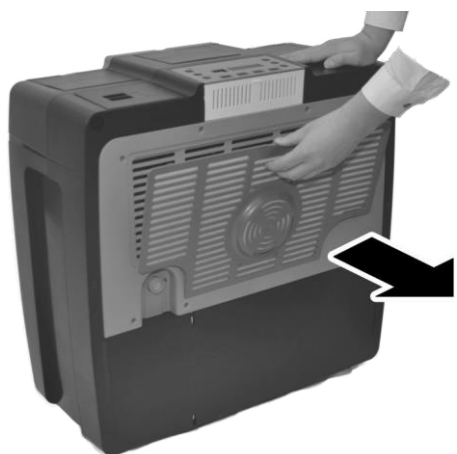


Fig. 28: Opening the intake grille

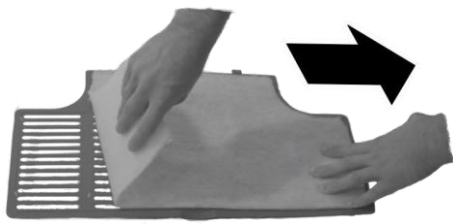


Fig. 29: Remove the cleaning filter

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

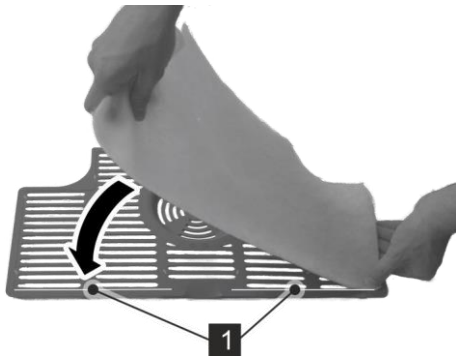


Fig. 30: Sticking down the cleaning filter

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



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)



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) and lamp holder (order number: 6211) 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 aside.

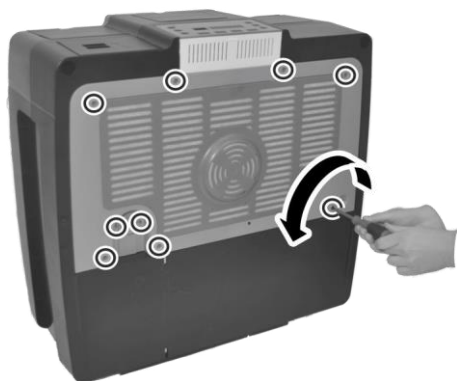


Fig. 32: Opening the rear



Fig. 33: Loosening the nuts of the lamp holder

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

Changing the UV lamp (optional accessories)

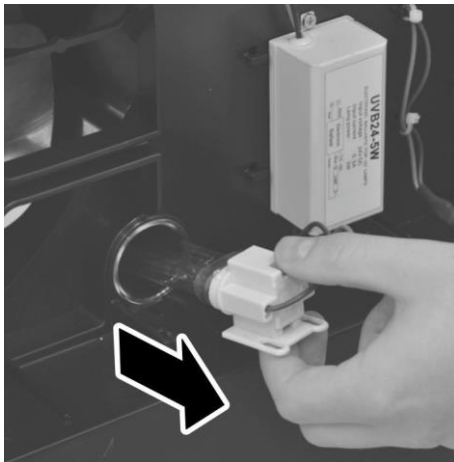


Fig. 34: Removing the UV lamp

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

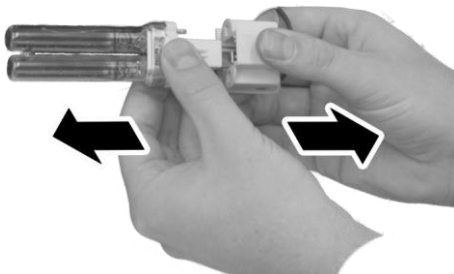


Fig. 35: Pulling out the UV lamp

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

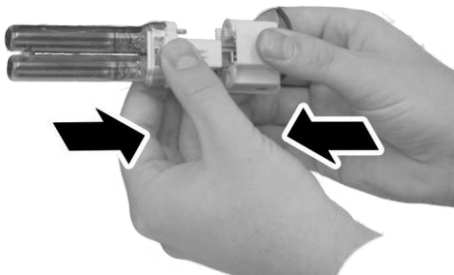


Fig. 36: Inserting the UV lamp

- 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).

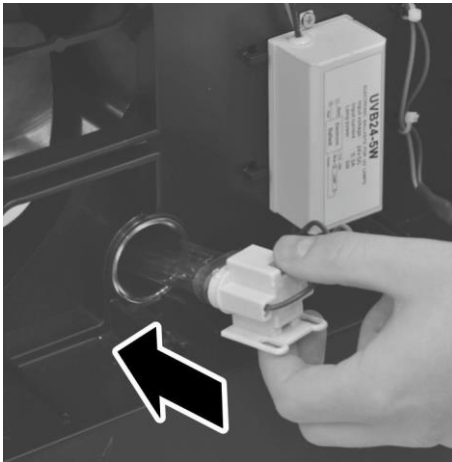


Fig. 37: Sliding a new UV lamp into the opening

- 6.** ▶ Slide the UV lamp and holder into the opening (Fig. 37).

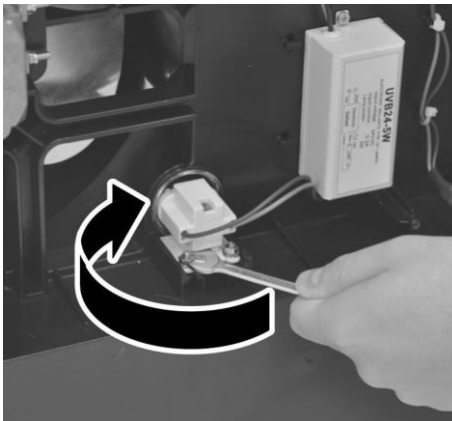


Fig. 38: Tightening the nuts of the lamp holder

- 7.** ▶ Tighten the nuts with a wrench SW 7 (Fig. 38).




Fig. 39: Closing the rear

- 8.** ▶ Close the rear wall of the housing (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 / Signal tone	Tank empty	Fill up with water.
F3	Tank sensor faulty	Contact the customer service department.
F4	Humidity sensor faulty	Contact the customer service department.
05 / Signal tone	No radio reception (remote sensor system, optional accessories)	Check the radio transmitter and if necessary, change the batteries.

Other malfunctions	Remedial action
Water leak	<ul style="list-style-type: none"> ■ Pull out the mains plug. ■ Empty the water container. ■ Contact the customer service department. ■ Filter brackets or fixing pins of the filter drum are missing, please insert
Severe calcification	<ul style="list-style-type: none"> ■ Clean the humidifier more regularly. ■ Use descaler during cleaning. ■ Use treated water instead of tap water.
Development of odours	<ul style="list-style-type: none"> ■ Change the water more regularly. ■ Clean the humidifier more regularly. ■ Use Waterfresh. ■ Replace the filter.


Repairs

Repairs may only be carried out by the service department of the manufacturer (📞 „Costumer service“ on page 4) or by trained electricians.

Readjusting the humidity display

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

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

After the setting has been made, exit the menu by pressing the standby button .

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 to 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.

CODING TABLE

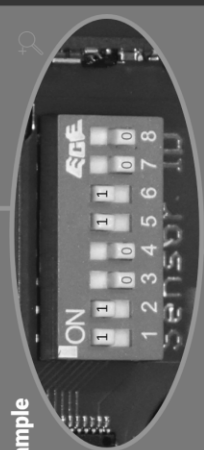
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000000000707	0011010138	011010116E	10100001A1	11010010D4
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00000000120C	0100000040	0110001173	10100010A6	11010001D9
00000000130D	0100000141	0110100074	10100011A7	11010010DA
00000000140E	0100000142	0110100175	10100000A8	11010011DB
00000000150F	0100000143	0110100176	10100001A9	11010010DC
000000001600	0100000144	0110100177	10100101AA	11010011DD
000000001701	0100000145	0110100078	10100010AC	11010011DE
000000001802	0100000146	0110100179	10100101AD	11000000E0
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000000002004	0100000148	011010017B	10100000B0	11000010E2
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00000000290D	0100000151	1000000184	10100001B9	11010010EC
00000000300E	0100000152	1000000185	10100101BA	11010011ED
00000000310F	0100000153	1000000186	10100101BB	11010010EE
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000000003604	0100000158	1000000191	10000000C0	11010011F3
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000000003806	010000015A	1000000193	10000001C2	11010011F5
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000000004008	010000015C	1000000195	10000001C4	11010011F7
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00000000420A	010000015E	1000000197	10000010C6	11010001F9
00000000430B	010000015F	1000000198	10000011C7	11010010FA
00000000440C	0100000160	1000000199	10000000C8	11010011FB
00000000450D	0100000161	1000000200	10000001C9	11010000FC
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00000000470F	0100000163	1000000202	10000011CB	11010010FE
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000000005002	0100000166	1000000205		
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00000001110F	0100000227	1000000266		
000000011200	0100000228	1000000267		
000000011301	0100000229	1000000268		
000000011402	0100000230	1000000269		
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000000011806	0100000234	1000000273		
000000011907	0100000235	1000000274		
000000012008	0100000236	1000000275		
000000012109	0100000237	1000000276		
00000001220A	0100000238	1000000277		
00000001230B	0100000239	1000000278		
00000001240C	0100000240	1000000279		
00000001250D	0100000241	1000000280		
00000001260E	0100000242	1000000281		
00000001270F	0100000243	1000000282		
000000012800	0100000244	1000000283		
000000012901	0100000245	1000000284		
000000013002	0100000246	1000000285		
000000013103	0100000247	1000000286		
000000013204	0100000248	1000000287		
000000013305	0100000249	1000000288		

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



7 Index

A

Automatic mode 18

B

Blower 18

Blower speed 18

C

Changing the UV lamp 32

Changing the water 24

Cleaning 24

Closing the outlet grille 27

Coding

Humidifier 21

Remote sensor 22

Copyright protection 3

Customer service 4

D

Dangers 11

Descaler 28

Display Elements 8

Disposal

Batteries 37

Humidifier 37

UV lamp 37

E

Electrical current 9

Environmental protection

Batteries 37

UV lamp 37

Error message 36

F

Fan speed 36

Fault rectification 36

Filter change

Cleaning filter 31

Evaporator filter 29

Function description 6

H

Humidity 18

I

Installation location 15

Intended use 9

Ionisation 19

K

Keylock 18

M

Maintenance 24

Measuring the relative humidity 18

Misuse 10

O

Opening the outlet grille 25

Operating conditions 8

Operation

Control elements 7

Control panel 7

Overview 6

R

Rectifying problems 28

Relative Humidity 18

Remote sensor system 20

Replacing the batteries 20

Residual risks 12

S

Safety 9

Standby 17

Start-up

Automatic mode 18

Filling the tank 16

Ionisation 19

Power connection 16

Remote sensor system 20

Setting the fan speed 18

Setting the relative humidity 18

Ventilation flaps 19

Switching off 17

Switching on 17

T

Technical Data 8

Transport

Lifting 15

Moving 15

U

Use 6

W

Water connection 17

Waterfresh 16



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