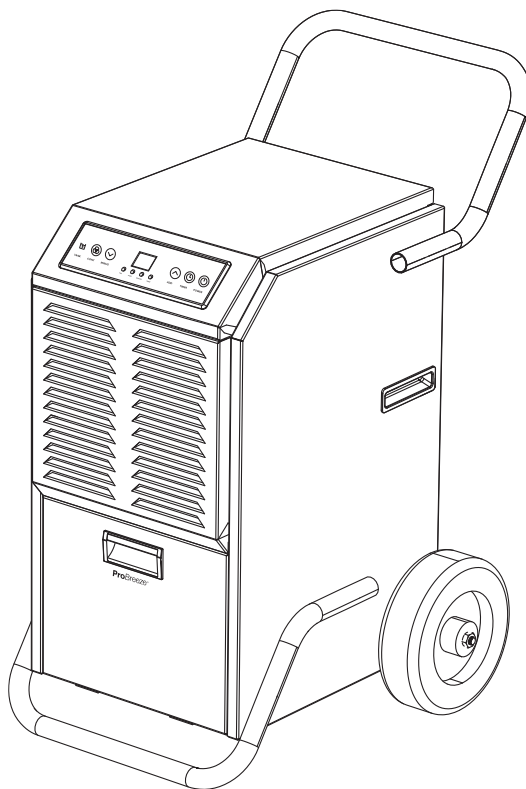


ProBreeze[®]

Instruction Manual



Model PB-D-31-UK

50L Industrial Compressor Dehumidifier

**IMPORTANT INSTRUCTIONS
– RETAIN FOR FUTURE USE**

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ProBreeze®

50L INDUSTRIAL COMPRESSOR
DEHUMIDIFIER
PB-D-31-UK

Thank you for choosing to purchase a product from Pro Breeze. Please read the entire manual carefully prior to first use and keep in a safe place for future reference.

SAFETY INSTRUCTIONS

PLEASE READ AND SAVE THESE IMPORTANT SAFETY INSTRUCTIONS.

When using electrical appliances, basic safety precaution should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

⚠ WARNING: TO AVOID THE RISK OF ELECTRICAL SHOCK, FIRE OR INJURY TO PEOPLE, ALWAYS TURN THE APPLIANCE OFF UNPLUG THE POWER CORD FROM THE ELECTRICAL OUTLET AND EMPTY THE WATER TANK BEFORE HANDLING, CLEANING OR SERVICING THE APPLIANCE.

- Use this appliance only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to person.
- Do not cover the appliance whilst in use.
- Always unplug the appliance when not in use.
- Do not expose the appliance to direct sunlight, heat sources or extreme cold.
- Keep the appliance out of reach of children and pets.
- Do not leave children alone or unattended in the area where the appliance is in use.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Dispose of water held by the appliance. This water is not drinkable.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical,

sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- When moving the appliance, ensure it is kept in an upright position.
- The appliance must have a minimum 50cm clearance around all sides.
- Never leave the appliance unattended in use. Always turn the appliance off and disconnect it from the power supply when not in use.
- Avoid placing the power cord in areas where it can become a tripping hazard. Do not place the power cord under carpeting or cover it with rugs, runners or similar.
- Place the appliance on a flat, stable and dry surface and always keep the appliance in an upright position. Operating the appliance in any other position could cause a hazard.
- Never place anything on top of the appliance.
- Ensure that the mains supply (voltage, frequency and power) complies with the rating label of the appliance.
- There may be trace of odour during the first few minutes of initial use. This is normal and will quickly disappear.
- Do not place the appliance against a wall or other appliances.
- Do not cover the appliance or restrict the air flow of the inlet or exhaust grills whilst in use.
- Do not place the appliance against a wall or other appliances.
- Do not cover, obstruct or push objects into the vents and opening of the appliance as this may cause an electric shock, fire or damage the appliance.
- Do not operate the appliance with wet hands.
- Do not use this appliance near water or in the immediate surroundings of a bath, shower or a swimming pool. Never place the appliance where it may fall into a

bathtub or other water container.

- Do not allow water or other liquids to run into the interior of the appliance, as this could create a fire and/or electrical hazard.
- Do not use mechanical devices to accelerate the appliances defrosting process.
- Do not place the continuous drainage hose outside when the temperature falls below 1°C.
- This appliance is intended for indoor household use and similar applications. Do not use outdoors.
- Do not use the appliance near petrol, paints, flammable gases, ovens, or other heating sources.
- The mains cable should not hang down from the surface on which the appliance is placed in order to prevent the appliance from being pulled down.
- To avoid a circuit overload when using this appliance, do not operate another high-wattage appliance on the same electrical circuit.
- Always plug the appliance directly into a wall socket. Avoid using extension leads where possible as they may overheat and cause a risk of fire.
- Do not use this appliance with an external programmer, timer switch or any other device which would switch the appliance on automatically unless this has already been pre-built into the appliance by the manufacturer.
- Do not pull on the power cord. Never move, carry, or hang the appliance by the power cord.
- Do not kink or wrap the power cord and plug around the appliance, as this may cause the insulation to weaken or split, particularly where it enters the appliance.
- Do not operate the appliance with the water tank removed.
- Ensure the mains cable is fully extended before use and arrange it so that it is not in contact with any part of the appliance.
- Do not operate the appliance with any safety guards

- removed.
- Do not operate the appliance if there are any signs of damage to the appliance or accessories supplied.
 - Do not attempt to repair or adjust any electrical or mechanical elements in the appliance. Doing so may be unsafe and will void your warranty.
 - The appliance shall be installed in accordance with national wiring regulations.
 - The unit's circuit board (PCB) is designed with a fuse to provide overcurrent protection. The specifications of the fuse are printed on the circuit board.
 - Never insert fingers or metal objects into the vents and openings of the appliance
 - Do not operate the appliance without the filter.
 - If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.
 - This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

Specific Information Regarding R290 Refrigerant Gas



⚠ WARNING: THE APPLIANCE MUST BE INSTALLED, OPERATED AND STORED IN A ROOM WITH A FLOOR AREA LARGER THAN 6M².

- This appliance contains 0.12kg (120g) of R290 refrigerant gas.

- R290 is a refrigerant gas that complies with the European directive on the environment.
- Do not puncture any part of refrigerant circuit.
- Be aware R290 refrigerant is odourless and does not have the odour normally associated with natural gas and propane tanks.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance must be placed in an area without any continuous sources of ignition such as open flames, gas, or electrical appliances in operation.
- Do not puncture and do not burn.
- If the appliance is installed, operated or stored in a non-ventilated area, the room must be designed to prevent the accumulation of refrigerant leaks resulting in a risk of fire or explosion due to ignition of the refrigerant caused by electric heaters, stoves, or other sources of ignition.
- The appliance must be stored in such a way as to prevent mechanical failure.
- Individuals who operate or work on the refrigerant circuit must have the appropriate certification issued by an accredited organisation that ensures competence in handling refrigerants according to a specific evaluation recognised by associations in the industry.
- Maintenance and repairs that require the assistance of other qualified personnel must be performed under the supervision of an individual specified in the use of flammable refrigerants.

SERVICING SAFETY INSTRUCTIONS

Please follow these warnings when to undertake the following when servicing a dehumidifier with R290.

Checks to the Area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

Work Procedure

Work shall be undertaken under a controlled procedure to minimize the risk of a flammable gas or vapor being present while the work is being performed.

General Work Area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

Checking for Presence of Refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. no sparking, adequately sealed or intrinsically safe.

Presence of Fire Extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire

extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

No Ignition Sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

Ventilated Area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

Checks to the Refrigeration Equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

- The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Checks to Electrical Devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment, so all parties are advised.

Initial safety checks shall include:

- Those capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.

- That there no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

SYMBOLS EXPLAINED

	For indoor use only.		Please read instruction manual and retain for future use.
	Equipment complies with the applicable UK safety requirements and regulations.		Equipment complies with the applicable EU safety requirements and regulations.

Explanation of symbols displayed on the unit.

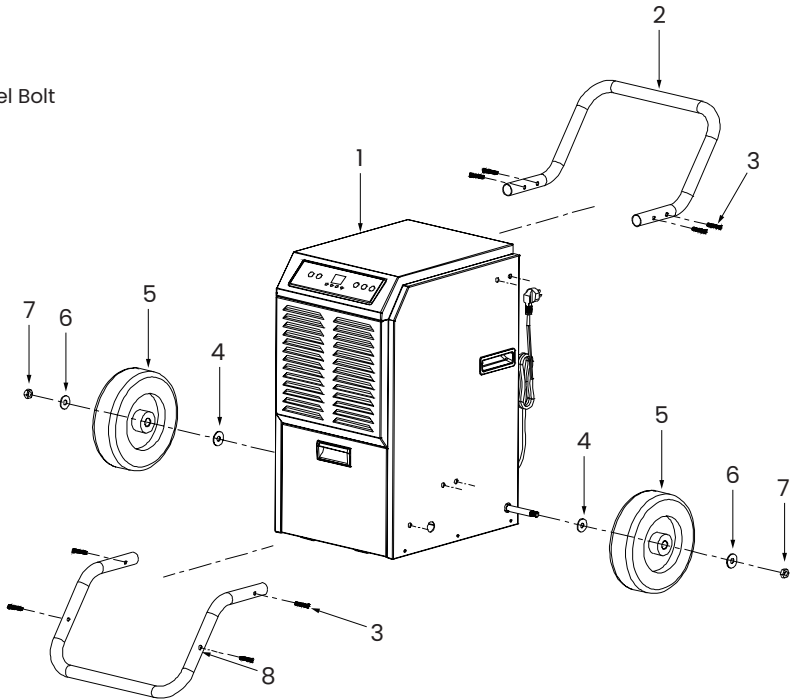
	WARNING	The symbol shows that this appliance uses a flammable refrigerant. If the refrigerant leaks and is exposed to an external ignition source, there is a risk of fire.
	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	CAUTION	This symbol shows that information is available such as the operating manual or instruction manual.

SPECIFICATION

Model:	PB-D-31W-UK, PB-D-31B-UK	Tank Capacity:	5.5L
Product Dimensions:	43 x 51.5 x 82.5cm	Refrigerant Charge:	R290 (120g)
Net Weight:	36kg	Min Room Size:	6m²
Frequency:	50Hz	Fuse Type:	AC 250V~, 3.15A/ 6.3A, T/F type
Power:	630W	Rated Capacity:	50L/day (30 °, 80%RH) 28.7L/day (27 °, 60%RH)
Max Rated Input Power:	725W		
Max Permissible Pressure on the High/ Low Pressure Side:	3.2MPa	Maximum Suction/ Exhaust Side Working Pressure:	0.7MPa/3.2MP

ASSEMBLY

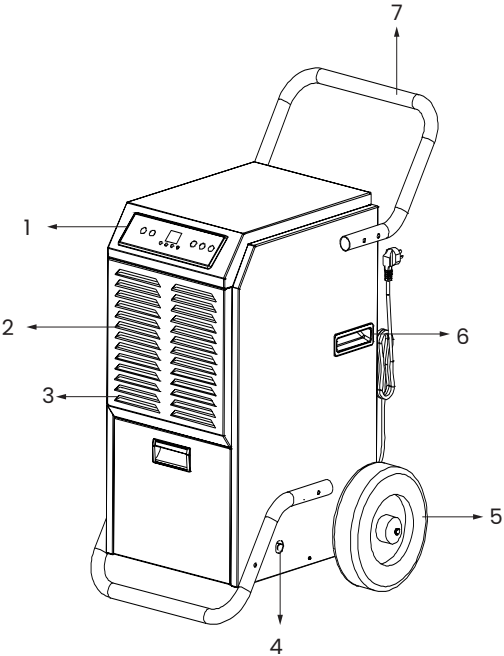
- 1. Main Body
- 2. Push Handle
- 3. Stainless Steel Bolt
- 4. Flat Washer
- 5. Wheel
- 6. Flat Washer
- 7. Nut
- 8. Support Rod



PRODUCT OVERVIEW

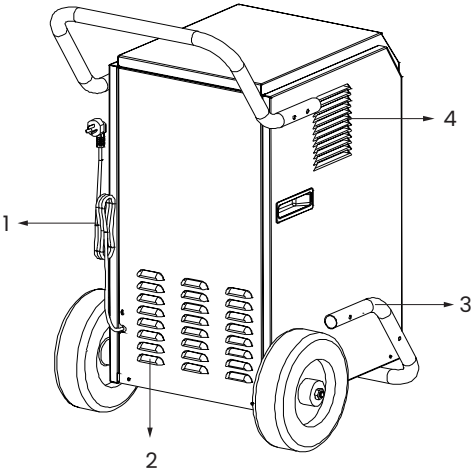
Front view

- 1. Control Panel
- 2. Air Inlet Grille
- 3. Air Filter
- 4. Continuous Drainage Opening
- 5. Wheel
- 6. Recessed Handle
- 7. Transport Handle



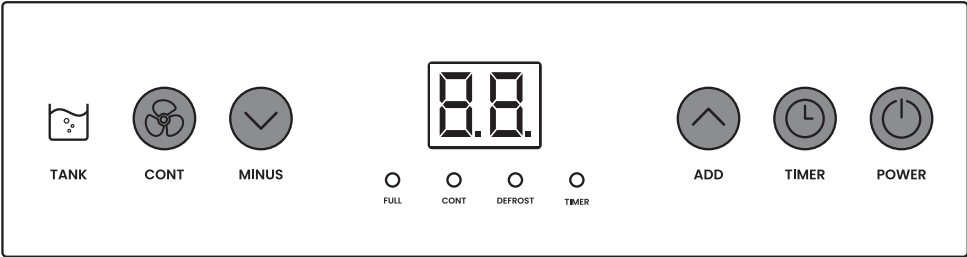
Back view

- 1. Power Cord
- 2. Grille
- 3. Support Rod
- 4. Air Outlet



These images are for reference only, please refer to your product.
If you find you're missing any parts from your order, please contact our customer care team by emailing help@probreeze.com for fast and friendly help.

CONTROL PANEL



	Power button	Press once to switch unit on or off.
	Timer button	Press to enable or disable the timer function.
	Setting button (ADD)	Adjust the humidity set-point within the range of 20%-90%. Adjust the timer set point. (1h~24h)
	Setting button (MINUS)	Adjust the humidity set-point within the range of 20%-90%. Adjust the timer set point. (1h~24h)
	Continuous button	Press to turn on/off continuous dehumidifying mode.
	Water Tank Symbol	This unit has a 5.5L water tank.
	Timer indicator (green)	Lights up when the timer function is set.
	Defrost LED (green)	Lights up when automatic defrosting is in process.
	Continuous LED (green)	Lights up when the continuous dehumidifying mode is turned on.
	Water full (red)	Lights up when the water tank is almost full.
	Digital display (green)	Displays the current humidity (20-95%) and the humidity setting (20-90%). Displays timer setting and temperature.

OPERATING INSTRUCTIONS

Turning On/Off

- **Turning On:** Press the POWER key to turn on the unit.
- **Turning Off:** Press the POWER key again to turn off the unit. The fan will continue to run for a short period before stopping completely.

Choosing a mode

- **Continuous Operation:**
 1. Press the POWER key to turn on the unit.
 2. The dehumidifier will operate continuously, ignoring the humidity set-point.
- **Normal Operation:**
 1. Press the POWER key to turn on the unit.
 2. Press the CONT key to deactivate continuous mode.
 3. The unit will operate at the default 50% humidity set-point.
 4. Set your target humidity following the instructions below:

Setting Target Humidity in Normal Operation

1. Ensure the unit is in normal operation mode.
2. Press the ADD/MINUS key repeatedly to adjust the humidity set-point.
3. Set the humidity level in 5% increments between 20% and 90% for optimal comfort.
4. The unit will cycle on and off to maintain the set humidity level.

Checking the Room Temperature

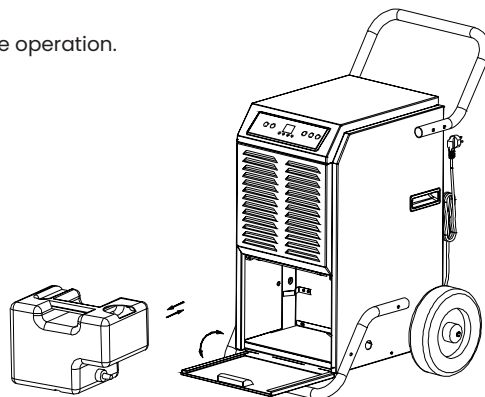
1. Press and hold the TIMER button for 5 seconds.
2. The digital display will show the current room temperature in degrees Celsius.

Setting a Timer

- **To Turn Off (When Power Is On):**
 1. Press the TIMER button.
 2. Use the +/- buttons to set the delay off time (1-24 hours).
- **To Turn On (When Power Is Off):**
 1. Press the TIMER button.
 2. Use the +/- buttons to set the delay on time (1-24 hours).

Emptying the Water Tank

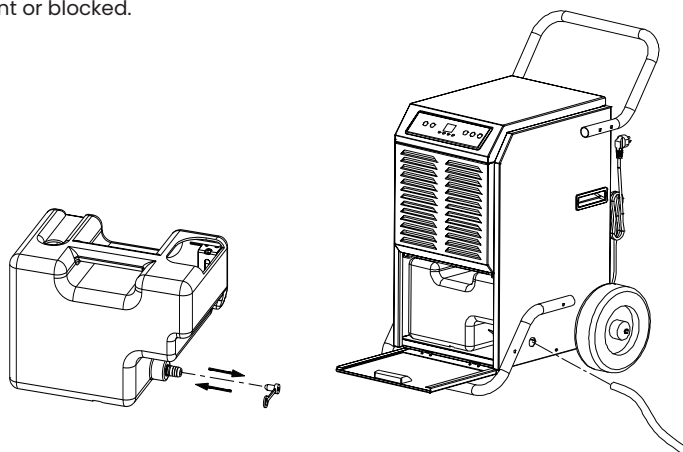
1. When the water tank is full, the machine will shut off and an indicator light will turn on, accompanied by 15 buzzes.
2. Gently pull the handle on the water tank panel to reveal the water tank.
3. Empty the water tank.
4. Reinstall the water tank correctly to resume operation.



Continuous Draining

To connect the drain hose to the unit:

1. Remove and empty the water tank per the instructions above.
2. Insert one end of the hose through the continuous drainage hole of the unit, ensure it is connected securely to the water tank.
3. Carefully return the water tank with the connected drainage hose into the unit and close the water tank panel.
4. Ensure the hose is not bent or blocked.



Note: Gravity will pull the water out of the unit into your chosen drainage area. Ensure the chosen area is not higher than the unit.

Safety Features

- **Auto Defrost Function:**
 1. If frost builds up on the evaporator at low temperatures, the unit will automatically defrost for 15 minutes.
 2. The Defrost LED will blink during this process.
 3. The compressor will stop, but the fan will continue to run.
 4. The unit will resume normal operation after defrosting.
- **Overload Protection:**

In case of a power loss, there is a 3-minute delay before the compressor restarts to protect the unit.

CLEANING AND STORAGE

⚠ WARNING: ALWAYS TURN THE APPLIANCE OFF AND UNPLUG THE POWER CORD FROM THE ELECTRICAL OUTLET BEFORE HANDLING OR CLEANING IT.

⚠ CAUTION: DO NOT ALLOW WATER OR OTHER LIQUIDS TO RUN INTO THE INTERIOR OF THE APPLIANCE, AS THIS COULD CREATE A FIRE AND/OR ELECTRICAL HAZARD.

⚠ CAUTION: DO NOT USE ANY ABRASIVE CLEANERS OR SOLVENTS, AS THIS CAN DAMAGE THE APPLIANCE.

Do not attempt to clean the appliance in any other way than that detailed by the manufacturer.

Cleaning the body of the dehumidifier:

- Turn the dehumidifier off and unplug the power cord.
- Clean the exterior surface of the appliance by wiping it with a soft, damp cloth. Dry the appliance with a soft, clean cloth.

Cleaning the water tank:

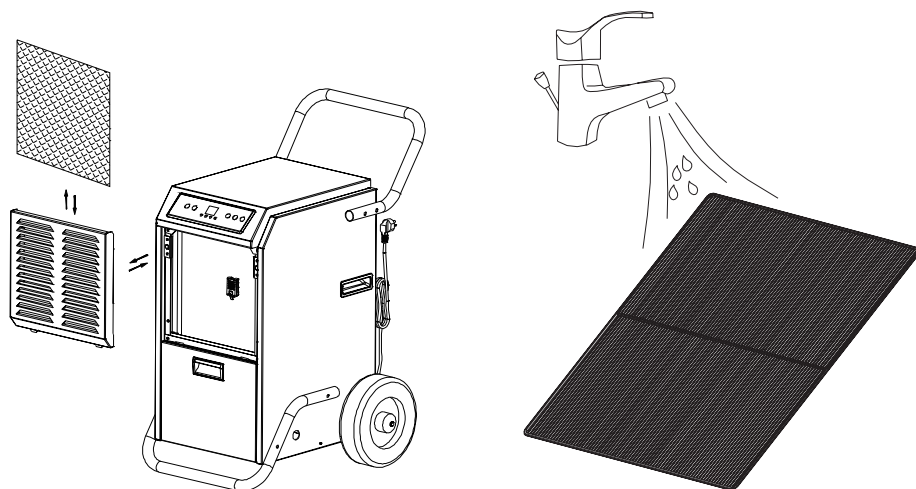
- Remove and empty the water tank as per the instructions in the "Emptying the water tank" section.

- Remove the water tank's lid by removing the handle and lifting the water tank's lid upwards.
- Clean the water tank with warm tap water and mild detergent (e.g. washing up liquid). Note: Do not use boiling water to clean the water tank.
- Ensure to remove any scale or deposits that have formed inside the water tank.
- Wipe all surfaces dry before placing the water tank's lid handle.
- Then return the water tank to the unit.

Cleaning the air filter:

The filter should be cleaned every two weeks.

1. Gently pull on the front grille to remove it from the unit.
2. Remove the mesh filter from the unit.
3. Use a clean, soft cloth to absorb the surface dust on the filter mesh. If the filter is extremely dirt, use tap water to flush the filter. Fully dry the filter before putting it back into the unit. A clean filter will increase the machine's capacity.



Storage

- The unit may need defrosting in temperatures less than 23°C – This will happen automatically and last up to 5 minutes. During this time, the dehumidifying function will stop and the defrost indicator will light up. Do not switch off while the unit is defrosting.
- To store your product, we recommend using the original or a similar-sized box. Store the appliance in a safe, clean and dry place, away from direct sunlight and out of reach of children when not in use.
- Always empty the water tank, clean and dry the appliance when not in use to prevent mould.
- Empty and clean the appliance before storage. Clean the appliance before next use.

RECYCLING AND DISPOSAL

Waste electrical and electronic products (WEEE), batteries, accumulators, and packaging should not be disposed of with general household waste. This is to prevent possible harm to the environment and human well-being, and to help conserve our natural resources. Most electrical products with a plug, battery, or cable can be recycled. Contact your local council, household waste disposal service, or the store where you purchased the product for information regarding the collection schemes in your area.

	Waste Electrical and Electronic Equipment (WEEE)	This symbol on the product and/or packaging indicates that Waste Electrical products (WEEE) under Directive 2012/19/EU which governs used electrical and electronic appliances, should not be disposed of with general household waste.
	The Mobius Loop	This symbol indicates that the product or packaging is capable of being recycled.

Take-Back Scheme

Waste electrical products (WEEE) can be sent to One Retail Group for recycling and disposal when you purchase a new product from One Retail Group, on a like-for-like basis. For more information on how to recycle this product please visit www.probreeze.com

The end-user of electrical and electronic products (WEEE) is responsible for separating old batteries and lamp bulbs before they are handed over to a designated disposal and recycling service. Waste batteries can also be disposed of in collection bins, which can be found in most local supermarkets and household waste recycling centres.



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