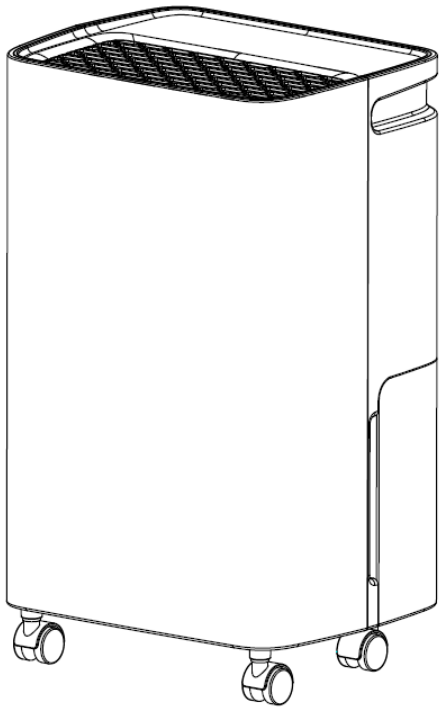
EurusBreeze

Model: DH2403

Dehumidifier 16 litres per day

USER MANUAL



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Unit 4/4A Butts Pond Industrial Estate,
Sturminster Newton, Dorset, DT10 1AZ

1. Important Safety Information:
Please carefully read and follow these safety guidelines before using the appliance:

1.1. Use only the defrosting and cleaning methods recommended by the manufacturer. Do not use any other means to accelerate defrosting or cleaning processes.
1.2. Store the appliance in a room where there are no continuously operating ignition sources, such as open flames, operating gas appliances, or operating electric heaters.
1.3. Do not pierce or burn the appliance under any circumstances.
1.4. Be aware that refrigerants used in the appliance may not have a noticeable odour. Exercise caution when handling and be mindful of this fact.
1.5. The appliance should be installed, operated, and stored in a room with a floor area larger than 43 ft^2 / 4m^2.
1.6. Servicing and maintenance should only be performed by qualified personnel following the manufacturer's recommended procedures.
1.7. Store the appliance in a well-ventilated area that meets the specified room size requirements for safe operation.
1.8. Only competent individuals should carry out any work procedures that affect safety measures.
1.9. Before using this product for the first time, carefully read the manual and store the unit in a safe place to prevent electrical leakage, fire, or personal injury.
1.10. Do not immerse this product in water or any other liquids.
1.11. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid hazards.
1.12. For repairs, please consult a professional service agent. Improper repairs may cause damage and pose risks to users.
1.13. Always disconnect the appliance from the power supply before moving or cleaning it, and when it is not in use.
1.14. Operate the product only with the specified electricity voltage.
1.15. Use this product only for household appliances and follow its intended purpose.
1.16. Do not place any objects on the product.
1.17. To avoid water leakage, clean the water tank before moving the product.
1.18. Do not tilt the product, as leaking water may cause damage.
1.19. This appliance can be used by children aged 8 years and above and individuals with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, if they have been supervised or instructed on how to use the appliance safely and understand the associated hazards. Children should not play with the appliance, and cleaning or user maintenance should not be done by children without supervision.


caution, risk of fire

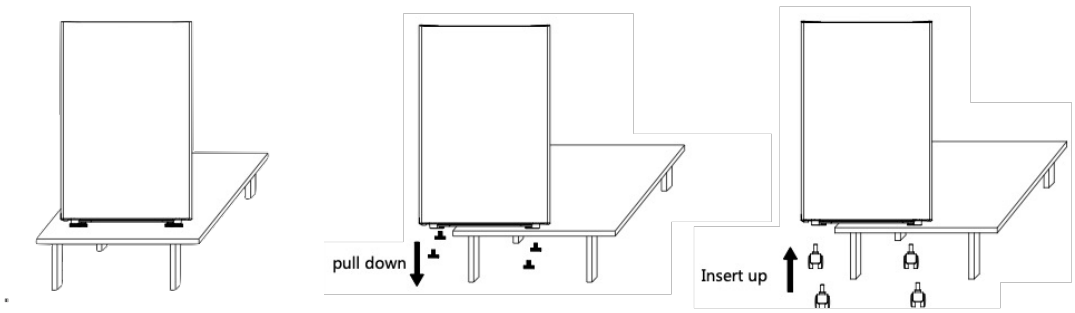
1.20. Keep the product a minimum distance of 20 inches / 50 cm away from walls or other barriers.
1.21. The appliance should be installed following national wiring regulations.
1.22. The operating temperature range for this unit is 5-32°C.
1.23. Do not operate the dehumidifier in wet rooms such as bathrooms or laundry rooms.
1.24. Spaces where refrigerant pipes are installed must comply with national gas regulations.

2. Transportation, Marking, and Storage Guidelines:

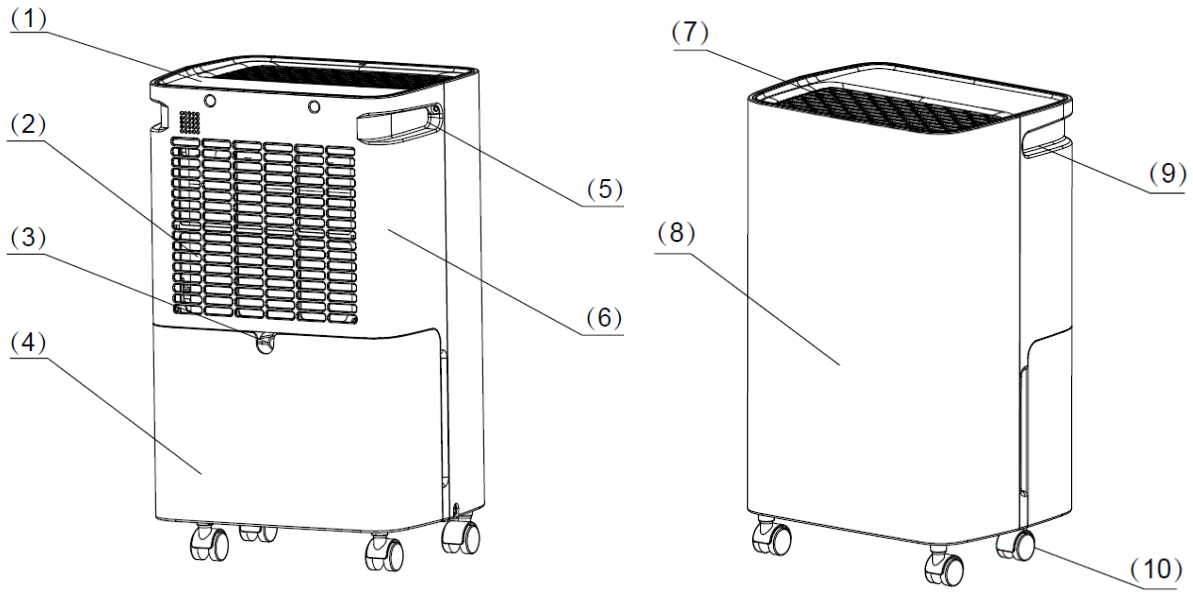
2.1. Transportation of equipment containing flammable refrigerants must comply with transport regulations in order to ensure safe handling and transit.
2.2. Equipment should be appropriately marked with signs as required by local regulations, which helps identify the nature of the equipment and any associated hazards.
2.3. Disposal of equipment that contains flammable refrigerants should adhere to national regulations to ensure proper and environmentally friendly disposal methods.
2.4. Storage of equipment and appliances should be done in accordance with the manufacturer's instructions to maintain their integrity and functionality.
2.5. When storing packed (unsold) equipment, the storage package should provide sufficient protection to prevent mechanical damage that could result in refrigerant leaks. The maximum number of equipment pieces allowed to be stored together should comply with local regulations.
2.6. The appliance should be stored in a manner that minimizes the risk of mechanical damage.
2.7. In the general work area, all maintenance staff and individuals working in the vicinity should receive proper instructions on the nature of the work being carried out. It is important to avoid working in confined spaces whenever possible. The workspace should be sectioned off to ensure safety, and measures should be taken to control flammable materials within the area.

3. CASTERS INSTALLATION (optional):

3.1. Place the unit on a table or flat surface, extend one foot of the unit beyond the table's edge.
3.2. Pull out the foot pad attached to the extended foot. Repeat for the remaining three foot pads.
3.3. You'll see four holes at the bottom of the unit, insert a caster into each hole, ensuring all four are secure. Put back the unit on a flat surface.



4. OPERATING INSTRUCTIONS



1. Control panel
2. Air Inlet
3. Drain hole
4. Water tank
5. Handle
6. Back housing
7. Air outlet
8. Front housing
9. Handle
10. Castors (self-installation required)

4.1. POWER

Press this button to turn the corresponding indicator (OPERATON) light on or off. When the indoor humidity reaches the set value, the compressor will stop running and the indicator light will flash.

4.2. FAN SPEED

Press this button to select the fan speed: high (HI) or low (LOW). The corresponding indicator light will illuminate or extinguish accordingly.

4.3. TIMER

a. Press this button to set the desired time (1 to 24 hours).
b. If the timer is set in standby mode, the unit will automatically turn on. If set during operation, the unit will automatically turn off.
c. If the power button is pressed to turn off the unit before the timer finishes counting down, the timer setting will be cancelled.
d. The indicator (TIMER) light will illuminate while the timer is in use.
e. After setting the timer, the display may switch back to showing the ambient humidity.

4.4. HUMIDITY SETTING

a. Press this button to set the desired relative humidity. Options range from continuous dehumidification (CO) to specific percentages such as 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, as well as comfort mode (AU). When the unit is powered on for the first time, it is set to continuous dehumidification (CO).
b. If the ambient humidity is lower than the set humidity by 3%, the compressor will automatically stop, and it will resume operation once the ambient humidity exceeds the set value by 3%.

4.5. COMFORT MODE [AU]

a. When the ambient temperature is below 5℃, the compressor will stop operating.
b. When the ambient temperature is between 5℃ and 20℃, the product will automatically set the humidity to 60%.
c. When the ambient temperature is between 20℃ and 27℃, the product will automatically set the humidity to 55%.
d. When the ambient temperature is above 27℃, the product will automatically set the humidity to 50%.

4.6. TANK FULL

When the water tank is full, the indicator (TANK FULL) light will illuminate, and the unit will stop working until the water tank is emptied.

4.7. DEFROST

When the unit is in defrost mode, the indicator (DEFROST) light will illuminate, and the compressor will stop working while the motor continues to operate. The ambient temperature is too low, and icing at evaporator will be happened. The unit will automatically resume normal when ambient temperature resumes.

5. DRAINING INSTRUCTIONS:

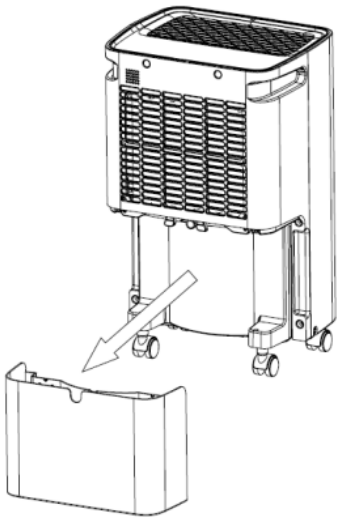
5.1. Water can be stored in the water tank or drained continuously through given drainpipe

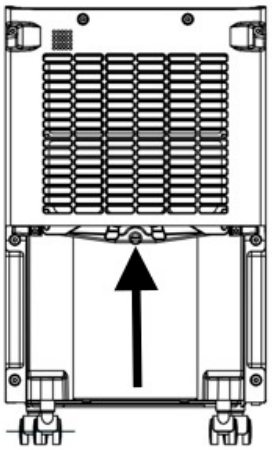
5.2. Before drain into the water tank, or when water tank reported full:

a. Remove the water tank and empty it.

b. Place the water tank back.

c. Press the power key to turn on the unit.





5.3. To continuous drainage:

a. Before continuous draining, remove the water tank and connect a drainpipe to the draining hole

b. Ensure the drainpipe is positioned lower than the draining hole for proper water flow and keep straight

6. MAINTENANCE INSTRUCTIONS:

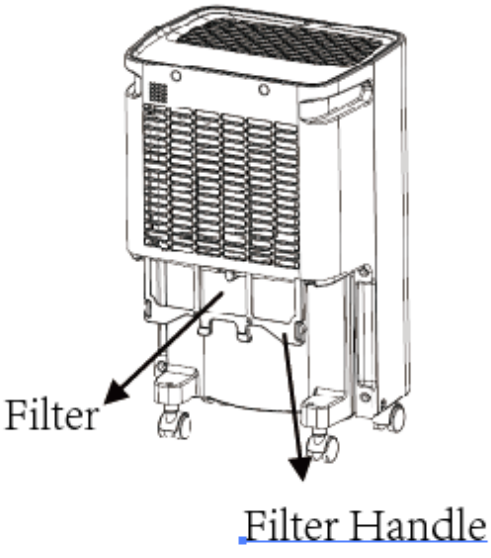
6.1. The unit should not be placed on a soft or uneven surface to prevent noise, vibration, and potential water or electricity leakage during operation. Ensure that the unit is placed on a flat and stable surface.

6.2. Avoid inserting any slim rods or hard objects into the unit, as this can cause damage to the internal components.

6.3. When turning off the unit or if you plan to stop using it for an extended period, always disconnect the power cord from the power supply to ensure safety.

6.4. To optimize the performance of the dehumidifier, keep it in an open area away from any barriers that may obstruct the airflow.

6.5. Regularly clean the filter by washing it with cool water (temperature below 40℃) every two weeks. Allow the filter to air-dry naturally before placing it back into the unit. Note: Never use gasoline or alcohol to clean the filter, as this can cause damage. Remove the water tank before removing the filter. Pull out the filter downward using the filter handles.



7. IMPORTANT WARNING:

7.1. When operating the dehumidifier, ensure that the humidity setting is not higher than the ambient humidity level to avoid excessive moisture removal.

7.2. When the indicator light illuminates, empty the water tank and securely place it back into the unit. This will allow the product to resume normal operation.

7.3. After the product shuts down, wait at least 3 minutes before restarting it to prevent potential damage to the compressor.

7.4. Please note that the applicable operating temperature range for this unit is between 5-32℃. Do not operate the dehumidifier outside of this temperature range.

7.5. If the dehumidifier fails to start (the indicator light does not illuminate) or shuts down unexpectedly, first ensure that the plug is firmly connected to the power supply. If the plug and power supply are in proper condition, wait for 10 minutes before attempting to restart the unit (as it may need time to reset). If the unit still does not start after 10 minutes, please contact your local distributor service station for repairs.

7.6. While the dehumidifier is operating, it is normal for the working compressor to generate some heat, which may slightly increase the ambient temperature.

7.7. During the defrosting cycle, the corresponding indicator light will illuminate. The compressor will temporarily stop, but the motor will continue to run.

7.8. The unit displays the ambient humidity level while in operation. If the ambient humidity exceeds RH95%, the display will show "HI," and if the ambient humidity falls below RH35%, the display will show "LO."

7.9. When moving the machine, please face the front of the unit for proper handling.

8. TROUBLESHOOTING:

Issues	**Cause of problem**	**Solution**
E1	Temperature sensor error, or the control system is off	Please contact service agent or similarly qualified persons for repairing
TANK FULL alert	Tank Full	Empty the tank and restart it, see section 4

8.1. Information on Servicing:

8.1.1) Safety Checks: Before starting any work on systems containing flammable refrigerants, perform safety checks to minimize the risk of ignition. Prior to repairing the refrigerating system, adhere to the following precautions:

8.1.2) Work Procedure: Follow a controlled procedure to minimize the presence of flammable gas or vapor during the work.

8.1.3) Checking for Refrigerant Presence: Use an appropriate refrigerant detector to check the area for potentially flammable atmospheres before and during the work. Ensure that the leak detection equipment used is suitable for flammable refrigerants, such as being non-sparking, adequately sealed, or intrinsically safe.

8.1.4) Fire Extinguisher: If any hot work is to be conducted on the refrigeration equipment or associated parts, ensure that appropriate fire extinguishing equipment, such as dry powder or CO2 extinguishers, is readily available in the charging area.

8.1.5) No Ignition Sources: No person working on a refrigeration system that involves exposing pipe work containing or having contained flammable refrigerant should use any sources of ignition that may lead to the risk of fire or explosion. Keep all possible ignition sources, including cigarette smoking, sufficiently far away from the installation, repair, removal, and disposal sites where flammable refrigerant may be released. Prior to work, survey the area around the equipment to ensure there are no flammable hazards or ignition risks. Display "No Smoking" signs.

8.1.6) Ventilated Area: Ensure that the area is open or adequately ventilated before breaking into the system or performing any hot work. Maintain ventilation throughout the work to safely disperse any released refrigerant, preferably expelling it externally into the atmosphere.

8.1.7) Checks to Refrigeration Equipment: When changing electrical components, ensure they are suitable for the purpose and meet the correct specifications. Always follow the manufacturer's maintenance and service guidelines. If unsure, consult the manufacturer's technical department for assistance. Apply the following checks to installations using flammable refrigerants:

- Ensure the charge size is appropriate for the room size where the refrigerant-containing parts are installed.
- Verify that ventilation machinery and outlets are operating properly and not obstructed.
- If an indirect refrigerating circuit is used, check the secondary circuit for the presence of refrigerant.
- Ensure markings on the equipment are visible and legible. Correct any illegible markings or signs.
- Install refrigeration pipes or components in positions unlikely to be exposed to substances that may corrode them, unless the components are made of corrosion-resistant materials or suitably protected against corrosion.

8.1.8) Checks to Electrical Devices: Repair and maintenance of electrical components should include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, do not connect the electrical supply to the circuit until the fault is satisfactorily addressed. If immediate correction is not possible but operation needs to continue, use an adequate temporary solution. Report this to the equipment owner to keep all parties informed.

Initial safety checks should include:

- Discharging capacitors in a safe manner to avoid sparking.
- Ensuring no live electrical components or exposed wiring are present while charging, recovering, or purging the system.
- Checking for continuity of earth bonding.

8.2. Repairs to Sealed Components:

8.2.1) Before removing sealed covers or performing repairs on sealed components, disconnect all electrical supplies from the equipment. If it's absolutely necessary to have an electrical supply during servicing, a permanently operating leak detection system should be installed at the most critical point to warn of potential hazards.

8.2.2) Pay special attention to the following to ensure that working on electrical components does not compromise the casing's level of protection:

- Avoid damaging cables.
- Minimize the number of connections and ensure terminals are made to the original specifications.
- Check for damage to seals and ensure glands are correctly fitted.
- Ensure secure mounting of apparatus.
- Verify that seals or sealing materials have not degraded, as they serve the purpose of preventing the ingress of flammable atmospheres. Use replacement parts that comply with the manufacturer's specifications.

Note: The use of silicon sealant may interfere with the effectiveness of certain leak detection equipment. Intrinsically safe components do not need to be isolated before working on them.

8.3. Repair to Intrinsically Safe Components:

8.3.1) Ensure that the circuit is not subjected to permanent inductive or capacitance loads that exceed the permissible voltage and current specified for the equipment in use.

8.3.2) Intrinsically safe components are the only ones that can be worked on while live in the presence of a flammable atmosphere. Ensure that the test apparatus has the correct rating. Replace components only with parts specified by the manufacturer, as using other parts may result in the ignition of refrigerant from a leak.

8.4. Cabling:

8.4.1) Check that cabling is not exposed to conditions such as wear, corrosion, excessive pressure, vibration, sharp edges, or any adverse environmental factors.

8.4.2) Consider the effects of aging or continuous vibration from sources like compressors or fans.

8.5. Detection of Flammable Refrigerants:

8.5.1) Under no circumstances should potential sources of ignition be used to search for or detect refrigerant leaks.

8.5.2) Avoid using a halide torch or any other detector that employs a naked flame.

8.6. Leak Detection Methods:

8.6.1) The following leak detection methods are considered acceptable for systems containing flammable refrigerants:

8.6.2) Electronic leak detectors should be used, but their sensitivity may require re-calibration. Calibrate the detection equipment in a refrigerant-free area. Ensure that the detector is not a potential source of ignition and is suitable for the specific refrigerant used.

8.6.3) Leak detection fluids are generally suitable for use with most refrigerants, but avoid using detergents containing chlorine, as chlorine can react with the refrigerant and corrode copper pipe-work.

8.6.4) If a leak is suspected, remove or extinguish all naked flames.

8.6.5) If a refrigerant leak is detected and brazing is required, recover all refrigerant from the system or isolate it (using shut-off valves) in a part of the system away from the

leak. Then, purge the system with oxygen-free nitrogen (OFN) both before and during the brazing process.

8.7. Removal and Evacuation:

When accessing the refrigerant circuit for repairs or any other purpose, it is crucial to follow proper procedures, especially considering flammability risks. Adhere to the following steps:

8.7.1) Remove the refrigerant from the system.

8.7.2) Purge the circuit with inert gas.

8.7.3) Evacuate the system.

8.7.4) Purge again with inert gas.

8.7.5) Open the circuit by cutting or brazing.

The recovered refrigerant should be transferred into appropriate recovery cylinders. The system should be flushed with oxygen-free nitrogen (OFN) to ensure its safety. This flushing process may need to be repeated multiple times. Do not use compressed air or oxygen for this task. Break the vacuum in the system with OFN, continue filling until the working pressure is reached, then vent to the atmosphere and evacuate to a vacuum. Repeat this process until no refrigerant remains in the system. When using the final OFN charge, vent the system to atmospheric pressure to proceed with the work. Make sure the vacuum pump outlet is not near any ignition sources and there is adequate ventilation.

8.8. Charging Procedures:

In addition to standard charging procedures, adhere to the following requirements:

8.8.1) Take precautions to prevent contamination of different refrigerants when using charging equipment. Keep hoses or lines as short as possible to minimize the amount of refrigerant they contain.

8.8.2) Store cylinders in an upright position.

8.8.3) Ensure that the refrigeration system is properly grounded before charging it with refrigerant.

8.8.4) Label the system upon completion of charging, if not already done.

8.8.5) Exercise extreme care to avoid overfilling the refrigeration system. Before recharging the system, conduct a pressure test with OFN. Perform a leak test upon completion of charging but before commissioning. Follow up with another leak test before leaving the site.

8.9. Decommissioning:

Prior to carrying out the decommissioning procedure, it is crucial for the technician to have a complete understanding of the equipment and its details. It is recommended best practice to safely recover all refrigerants. Before starting the task, take oil and refrigerant samples for analysis, if necessary, before reusing the reclaimed refrigerant. Ensure that electrical power is available before commencing the task.

a) Familiarize yourself with the equipment and its operation.

b) Electrically isolate the system.

c) Before proceeding with the procedure, ensure that:

- Mechanical handling equipment is available if needed for handling refrigerant cylinders.

- All personal protective equipment is available and being correctly used.
- The recovery process is supervised by a competent person at all times.
- The recovery equipment and cylinders comply with the appropriate standards.

d) If possible, pump down the refrigerant system.

e) If a vacuum is not possible, create a manifold to remove refrigerant from various parts of the system.

f) Ensure that the cylinder is placed on the scales before starting the recovery process.

g) Start the recovery machine and operate it according to the manufacturer's instructions.

h) Do not overfill the cylinders (maximum of 80% volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) Once the cylinders have been correctly filled and the process is complete, promptly remove the cylinders and equipment from the site, and close off all isolation valves on the equipment.

k) Recovered refrigerant should not be charged into another refrigeration system unless it has been cleaned and checked.

8.10. Labelling:

Equipment should be labelled to indicate that it has been decommissioned and emptied of refrigerant. The label should include the date and signature. Additionally, ensure that equipment is labelled to indicate that it contains flammable refrigerant.

8.11. Recovery:

When removing refrigerant from a system for servicing or decommissioning, it is recommended to safely recover all refrigerants.

8.11.1) When transferring refrigerant into cylinders, use appropriate refrigerant recovery cylinders. Ensure you have the correct number of cylinders to hold the total system charge. The cylinders used should be designated for recovered refrigerant and labelled accordingly.

8.11.2) Cylinders should have pressure relief valves and functioning shut-off valves. Empty recovery cylinders should be evacuated and, if possible, cooled before the recovery process.

8.11.3) Ensure the recovery equipment is in good working order, has instructions available, and is suitable for recovering flammable refrigerants. Calibrated weighing scales should be available and in good working order. Hoses should have leak-free disconnect couplings and be in good condition.

8.11.4) Before using the recovery machine, check that it is in satisfactory working order, properly maintained, and that any associated electrical components are sealed to prevent ignition in case of a refrigerant release. Consult the manufacturer if unsure.

8.11.5) The recovered refrigerant should be returned to the refrigerant supplier in the appropriate recovery cylinder, and arrange for the relevant Waste Transfer Note. Do not mix refrigerants in recovery units or cylinders.

8.11.6) If compressors or compressor oils need to be removed, ensure they have been evacuated to an acceptable level to ensure no flammable refrigerant remains in the

lubricant. The evacuation process should be carried out before returning the compressor to the suppliers. Only use electric heating applied to the compressor body to accelerate this process. When draining oil from a system, do so safely.

9. SPECIFICATIONS

Model	DH2403
Power source	220-240V ~ 50Hz
Rated power input	290W
Moisture Removal (30℃ RH80%)	16 litres / day
Refrigerant	R290, 0.04kg
Water tank capacity	2 litres
Permissible Excessive Operating Pressure	
Suction:	0.6 MPa
Discharge	2.5 MPa
Maximum Allowable Pressure	4.0 MPa
Dimension (W x D x H) mm	256 W x 205 D x 414 H
Applicable temperature	5℃ - 32℃

Fuse parameters of the machine: Type: 524 or 5H Voltage: 250V Current: 3.15 A

The following marking signifies that this product should not be disposed of with regular household waste within the European Union. In order to prevent potential risks to the environment and human health resulting from unregulated waste disposal, we strongly encourage you to recycle the product to promote sustainable resource utilization. To properly dispose of your used device, please inquire about return and collection systems or get in touch with the retailer from whom you originally purchased the product. They can provide safe recycling options for these items.

10. LIMITED WARRANTY FOR 1 YEAR:

This warranty does not cover accidents, abuse, alterations, misuse, lack of reasonable care, attachments not provided with the product, loss of parts, damage caused by acts of God, use of incorrect voltages, cosmetic damage, and consumable parts. It applies only to defects in materials or workmanship. **Please keep your invoice and make a note of the serial number (remove the water tank & found on the rating label on the rear case) for future reference.**

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