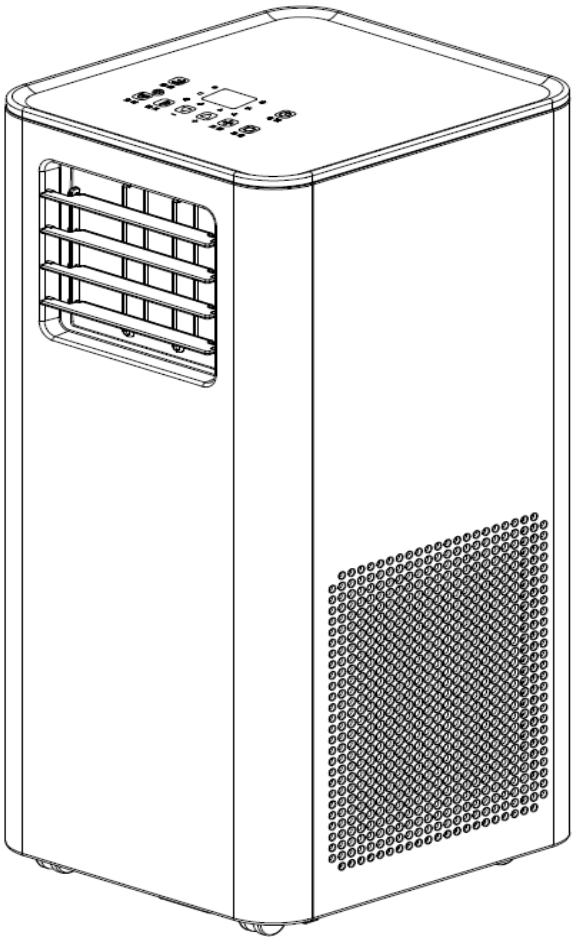
# *EurusBreeze*

Model: AC2401

Portable Air Conditioner 9,000BTU / 2,600W

USER MANUAL



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**Thank you for choosing the EurusBreeze Portable Air Conditioner. Please read this user manual carefully before installing and operating the unit. Retain this manual for future reference and warranty purposes.**


caution, risk of fire

**1. SAFETY PRECAUTIONS:**

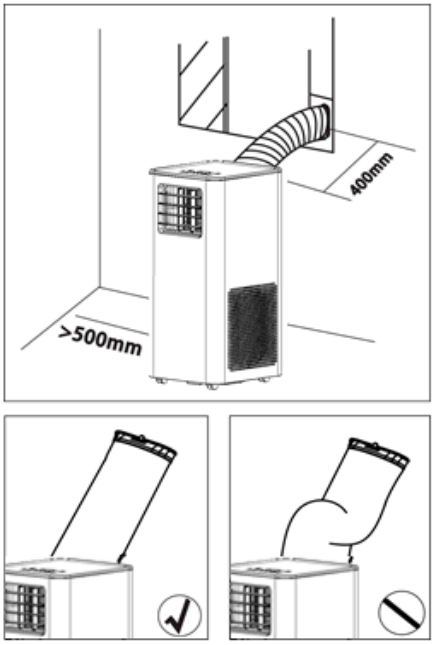
1.1 Do not use any methods other than those recommended by the manufacturer to defrost or clean the unit.
1.2 Store the appliance in a room without continuously operating ignition sources, such as open flames, gas appliances, or electric heaters.
1.3 Avoid piercing or burning the unit.
1.4 Note that refrigerants may not have an odour.
1.5 Ensure that the appliance is installed, operated, and stored in a room with a floor area larger than 54ft$^2$ (5m$^2$).
1.6 Servicing should only be performed as recommended by the manufacturer.
1.7 Store the appliance in a well-ventilated area with the appropriate room size specified for operation.
1.8 All safety-related procedures should be carried out by competent individuals.
1.9 ENSURE THAT THE PRODUCT IS ALWAYS VENTILATED PROPERLY. Avoid blocking the inlet and outlet ventilation.
1.10 Operate the unit on a horizontal surface to prevent water leakage.
1.11 Do not use the unit in explosive or corrosive atmospheres.
1.12 Operate the unit in temperatures below 35 degrees Celsius.
1.13 Clean the air filter periodically for optimal cooling performance.
1.14 After turning off the unit, wait at least 3.5 minutes before restarting to prevent compressor damage.
1.15 The unit requires a minimum of 7 Amps of electricity to operate the compressor. Avoid using extension cords.
1.16 This unit is designed for indoor cooling and dehumidifying.
1.17 When turning on the unit, the fan will operate, and the compressor will start after the cooling alarm flashes for three minutes.
1.18 If the supply cord is damaged, it should be replaced by the manufacturer, its service agent, or qualified professionals.
1.19 Remove the batteries from the unit and remote control before disposing of it safely.
1.20 This appliance can be used by children aged 8 years and above and individuals with reduced physical, sensory, or mental capabilities, provided they are supervised and instructed on safe usage. Children should not play with the appliance, and cleaning or maintenance should not be done by children without supervision.

1.21 The air conditioner can only be connected to a power supply with a system impedance of no more than 0.219Ω. Consult your supply authority for system impedance information if necessary.
1.22 The appliance should be installed in accordance with national wiring regulations.
1.23 Do not operate the air conditioner in wet rooms such as bathrooms or laundry rooms. (Not suitable for models with a window kit)

**2. TRANSPORTATION, MARKING & STORAGE:**

2.1. Transport equipment containing flammable refrigerants in compliance with transport regulations.
2.2. Mark equipment using signs in compliance with local regulations.
2.3. Dispose of equipment using flammable refrigerants in compliance with national regulations.
2.4. Store equipment in accordance with the manufacturer's instructions.
2.5. When storing packed (unsold) equipment, ensure that the storage package protects against mechanical damage and refrigerant leaks. Follow local regulations for the maximum number of pieces of equipment that can be stored together.
2.6. Store the appliance to prevent mechanical damage.
2.7. In the general work area, provide instructions to maintenance staff and others working in the area. Avoid confined spaces and section off the workspace. Ensure that flammable materials are controlled to create a safe working environment.

**3. IMPORTANT COOLING FUNCTION GUIDELINES:**








For effective cooling, follow these steps:

3.1. Extend the exhaust hose to a length of less than 16 inches (400 mm). Keep the exhaust hose parallel without bending it up or down.

3.2. Maintain a minimum distance of 20 inches (500 mm) between the filter side of the unit and walls or other obstacles.

3.3. When the appliance starts to defrost, the LED will display the word "DF."

**4. FUNCTIONS & FEATURES:**

Congratulations on choosing a quality portable air conditioner. The EurusBreeze Portable Air Conditioner is designed and manufactured to the highest standards of modern engineering. It offers the following benefits:

4.1. Easy mobility with gliding castors for moving between rooms.

4.2. Follow the provided picture instructions to install the window kit and attach the exhaust hose before plugging in the unit.

4.3. Powerful refrigerated air system for instant cooling.

4.4. Dehumidification and air filtration for improved breathing environments.

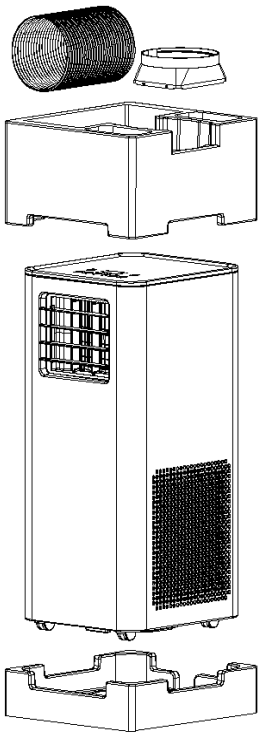
4.5. Remote control and one-touch electronic pad for easy operation.

4.6. 24-hour programmable timer for cooling and dehumidifying functions.

4.7. Unique sleep control function.

4.8. Operates on 220-240 Volt, 50Hz.

**5. UNPACKING INSTRUCTIONS:**



5.1. Before unpacking, ensure the unit is in the correct upright position.

5.2. Cut the two packing straps.

5.3. Slide the carton upward to release it from the base.

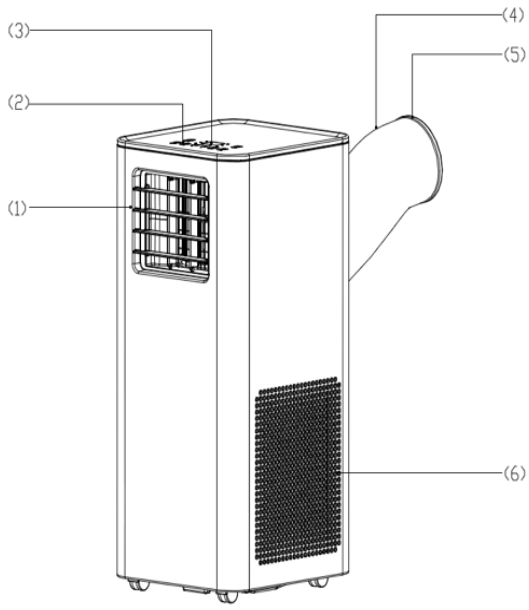
5.4. Grip the carry handles located on either side of the unit and carefully lift the unit from the foam base, as shown in the picture.

5.5. Install the exhaust hose on the unit before operating it, see section 15 & section 16.

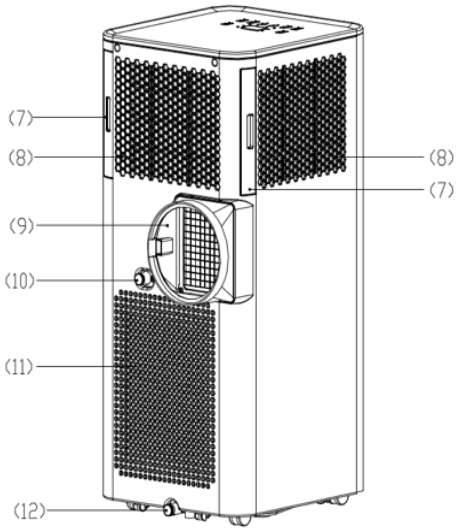
**6. CONTENTS INSIDE PACKAGE:**

6.1. Portable air conditioner unit
6.2. Remote control & battery (1 x CR2025L)
6.3. Quick manual & user manual
6.4. Drainpipe
6.5. Exhaust hose & hose adaptor
6.6. Adjustable window slider kit & air nozzle

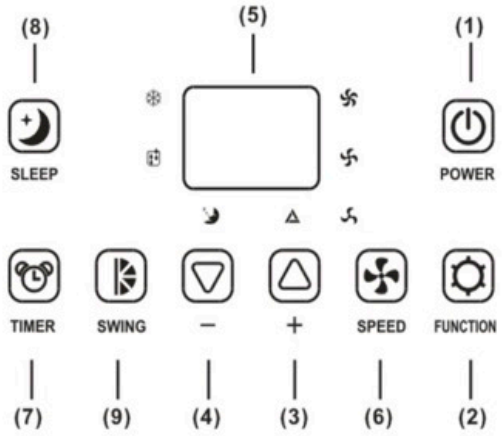
**7. PARTS:**




7.1. Cool air outlet
7.2. Control panel
7.3. LED display
7.4. Exhaust hose
7.5. Air nozzle
7.6. Hot air inlet
7.7. Cool air filter
7.8. Cool air inlet
7.9. Hose adaptor
7.10. Upper drain hole
7.11. Hot air filter
7.12. Bottom drain hole



**8. CONTROL PANEL & FUNCTION DESCRIPTION:**


8.5. LED DISPLAY:
The display indicates the current setting temperature or the timer setting. When the set temperature or the timer is adjusted, the new setting is temporarily shown on the display before returning to the final setting temperature.

When the water tank is full, "E4" will be displayed on the panel. To resume operation, remove the rubber cap on the drain hose to drain out the water, read section 10.3 for illustration. The E4 warning disappears after draining, and then press the "POWER" key to restart the unit.

8.1. POWER KEY:
Press to turn the unit "ON" or "OFF".

8.2. FUNCTION:
Press to select cooling and dehumidifying mode.

8.3. TEMPERATURE REGULATION KEY (UP):
This key raises the pre-set temperature by 1℃ each time it is pressed, with a maximum limit of 30℃.

8.4. TEMPERATURE REGULATION KEY (DOWN):
This key lowers the pre-set temperature by 1℃ each time it is pressed, with a minimum limit of 17℃.

8.6. SPEED:
Press this key to select LOW, MEDIUM, HIGH, or AUTO fan speed.
- In cooling function, the "AUTO" speed automatically adjusts the fan speed based on the temperature difference between the setting temperature and ambient temperature.
- In dehumidifying mode, only LOW, MEDIUM, or HIGH speed is available.

8.7. PROGRAMMABLE TIMER:

Press the timer ON/OFF key to set the programmable timer.

- TIMER-ON: Turns on the unit automatically after the set time has elapsed. Press the "TIMER" key at stand-by status to set the desired time.
- TIMER-OFF: Turns off the unit automatically after the set time has elapsed. Press the "TIMER" key at operating status to set the desired time.

8.8. SLEEP CONTROL FUNCTION:

In cooling mode, press the "SLEEP" key to activate sleep mode. The setting temperature increases 1℃ after an hour and up to 2℃ after 2 hours. Press the "SLEEP" key again to cancel the setting.

8.9. SWING:

Press the "SWING" key to activate the swing function of the vertical blades on the cool air outlet. Press the key again to stop swinging. The blades will return to the central position when the unit is turned off.

**9. REMOTE CONTROL FUNCTION:**

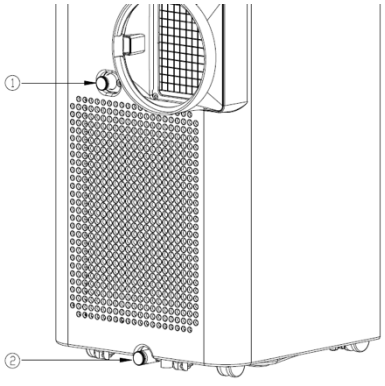

9.1. POWER: Press to turn the unit on or off.
9.2. FUNC: Select the operating mode (cooling & dehumidifying).
9.3. TIMER: Set the programmable timer for automatic operation.
9.4. AUTO: Activate the automatic fan speed mode.
9.5. HI: Set the fan speed to high.
9.6. MID: Set the fan speed to medium.
9.7. LOW: Set the fan speed to low.
9.8. SLEEP: Activate the sleep mode for energy-saving operation.
9.9. ▲ / ▼ TEMP: Adjust the desired temperature.
9.10. SWING: Activate the oscillation of the air outlet blades.

**10. DRAINING:**

This unit can evaporate condensation and distribute it through the exhaust hose.

10.1. In cooling mode, the unit does not require a drainpipe. Ensure both upper & bottom rubber caps are securely locked on the drain holes during operation.

10.2. When using the dehumidifying function, remove the upper rubber cap (marked "①") from the drain hole and install with the drainpipe provided. To improve dehumidification efficiency, remove the air exhaust hose and connect a drainpipe to the drain hole for water drainage.




10.3. If the internal water tank is full, the display panel will show "E4." Remove the bottom rubber cap (marked "②") on the drain hole to drain the water. After draining, press the POWER key to restart the unit.

**11. MAINTENANCE:**

PLEASE DISCONNECT THE POWER CORD BEFORE CLEANING.

11.1. washable air filters (evaporator):

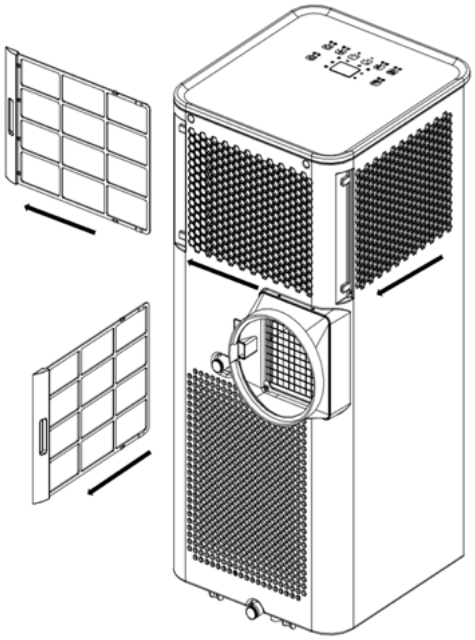
- The air filters are located on the left side and back of the unit. To remove the filters, pull the frame gently.
- Clean the air filter by following the arrow direction. After cleaning, reinstall the filter.

11.2. condenser/evaporator:

- Use a vacuum cleaner with a brush attachment to clean the condenser/evaporator.

11.3. casing:

- Wipe the casing with a damp cloth and polish with a soft cloth.



**12. POWER SUPPLY:**

12.1. Ensure the correct power supply.

12.2. Insert the plug firmly into the outlet to prevent any dangerous leakage.

12.3. Do not pull the power cord forcefully to avoid damage to the wiring.


**13. PLACE FOR USE:**

13.1. Avoid placing or operating the unit in a narrow space due to the distribution of hot air.

13.2. Do not operate the unit in a humid place where dangerous leaks may occur.

13.3. Avoid placing the unit in a sunlit corner to prevent overheating and fading of the unit's colour.

**14. HELPFUL HINTS:**

14.1. Ensure the unit is not obstructed by objects that may block air intake, such as furniture or curtains.

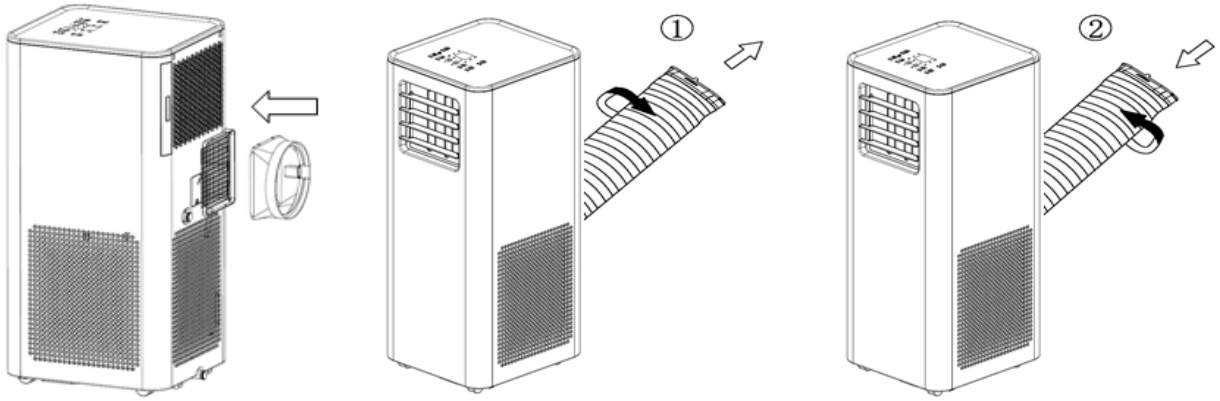
14.2. The unit is equipped with a special thermal cut-off device to prevent overheating.

**15. EXHAUST HOSE INSTALLATION:**

15.1. Follow the indicated direction in Picture 1 to install the hose adaptor.

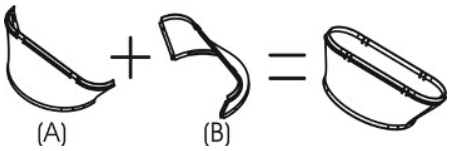
15.2. To remove the exhaust hose, rotate it in the direction indicated by the arrowhead "①." Then, the exhaust hose can be detached from the unit.

15.3. To install the exhaust hose, rotate it in the direction indicated by the arrowhead "②." Then, connect the exhaust hose to the unit.

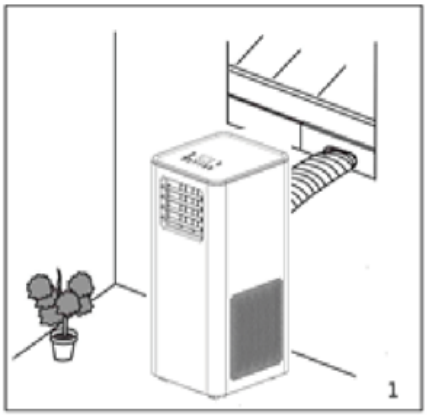



**16. WINDOW KIT INSTALLATION:**

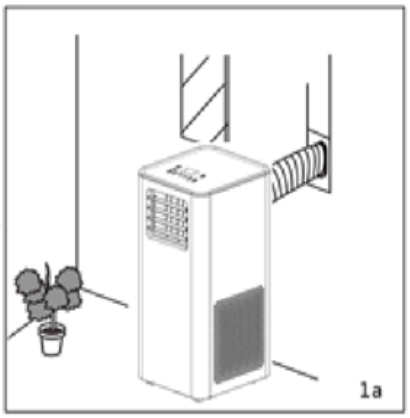
Assemble and rotate the air nozzle into the hose end.




Install the adjustable window slider kit as shown in Figure 1 and Figure 1a ), and then insert the air nozzle into the window kit to complete the installation.





**17. TROUBLESHOOTING:**

| Alarm | Cause | Trouble shooting |
|---|---|---|
| dF | The ambient temperature is too low, and icing at evaporator will be happened | Automatically resume normal when ambient temperature resumes. |
| E1 | Electrical short on both temperature sensor and PCB | Contact an electrician for repair. |
| E2 | Electrical short of temperature sensor copper tube and PCB wiring | Contact an electrician for repair. |
| E4 | Indicates water tank full or the poor contact of the power cord | User needs to remove the rubber cap on drain hole which is located at the bottom of the unit to drain the water out, read section 10.3 for illustration. Check the power cord is fixed or not. |

17.1. Information on Repair Servicing

17.1.1. Precautionary Checks

Before working on systems containing flammable refrigerants, it is important to conduct safety checks to minimize the risk of ignition. Prior to repairing the refrigerating system, adhere to the following precautions.

17.1.2. Controlled Work Procedure

Ensure that work is carried out in a controlled manner to minimize the presence of flammable gas or vapor.

17.1.3. Refrigerant Presence Check

Before and during work, use an appropriate refrigerant detector to check for potentially flammable atmospheres. Make sure the leak detection equipment used is suitable for flammable refrigerants and meets safety requirements.

17.1.4. Fire Extinguisher Availability

If any hot work is to be performed on the refrigeration equipment or associated parts, have an appropriate fire extinguisher (dry powder or $CO_2$) readily available in the charging area.

17.1.5. Avoiding Ignition Sources

When working on refrigeration systems that contain or have contained flammable refrigerants, avoid using any ignition sources that may lead to the risk of fire or explosion. Keep all potential ignition sources, including smoking, at a safe distance from the installation, repair, removal, and disposal sites where flammable refrigerant may be released. Display "No Smoking" signs in the area.

17.1.6. Ventilation

Ensure that the work 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.

17.1.7. Equipment Checks

When working with flammable refrigerants, it is essential to always adhere to the manufacturer’s maintenance and service guidelines. In case of any uncertainty, it is highly recommended to seek assistance from the manufacturer's technical department. Perform the following checks:

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

17.1.8. Electrical Device Checks

During repair and maintenance of electrical components, conduct initial safety checks and component inspections. If a fault is detected that could compromise safety, do not connect the electrical supply until the issue is resolved. If immediate correction is not possible but operation needs to continue, implement an adequate temporary solution, and inform the equipment owner.

Initial safety checks should include:

a. Discharging capacitors safely to prevent sparking.
b. Ensuring there are no live electrical components or exposed wiring during charging, recovery, or purging of the system.
c. Verifying continuity of earth bonding.

17.2. Repairs to Sealed Components

17.2.1. Electrical Disconnection

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, install a permanently operating leak detection system at the most critical point to detect potential hazards.

17.2.2. Protection of Casing

Pay special attention to prevent any alteration of the casing during work on electrical components that could compromise the level of protection. Avoid damaging cables, making excessive connections, using terminals that don't meet the original specifications, damaging seals, or incorrectly fitting glands.

Ensure secure mounting of apparatus and replacement of parts according to the manufacturer's specifications. Note that the use of silicon sealant may affect the effectiveness of certain types of leak detection equipment. Intrinsic safety components do not need to be isolated before working on them.

17.3. Repair of Intrinsically Safe Components

Before applying any permanent inductive or capacitance loads to the circuit, ensure that the voltage and current remain within the permissible limits for the equipment in use. Intrinsically safe components are the only ones that can be worked on in the presence of a flammable atmosphere. Use test apparatus with the correct rating and only replace components with parts specified by the manufacturer to prevent refrigerant ignition from leaks.

17.4. Cabling

Check the cabling to ensure it is not subject to wear, corrosion, excessive pressure, vibration, sharp edges, or other adverse environmental effects. Take into account the effects of aging or continuous vibration from sources such as compressors or fans.

17.5. Flammable Refrigerant Detection

Under no circumstances should potential ignition sources be used to search for or detect refrigerant leaks. Do not use a halide torch or any other detector with a naked flame.

17.6. Leak Detection Methods

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

17.6.1. Electronic leak detectors calibrated in a refrigerant-free area, ensuring they are not potential ignition sources and suitable for the refrigerant used.

17.6.1. Leak detection fluids suitable for most refrigerants but avoid using detergents containing chlorine astheny can react with some refrigerants and form corrosive compounds. Use a non-flammable leak detection fluid that is compatible with the refrigerant being used.

17.7. Refrigerant Removal and Evacuation Procedure

When conducting repairs or any other task that requires accessing the refrigerant circuit, it is crucial to follow proper procedures to ensure safety, especially considering flammability. The following steps should be followed:

17.7.1 Remove the refrigerant from the system.

17.7.2 Purge the circuit with inert gas.

17.7.3 Evacuate the system.

17.7.4 Purge the circuit again with inert gas.

17.7.5 Open the circuit by cutting or brazing.

The recovered refrigerant should be transferred to appropriate recovery cylinders. To render the unit safe, the system should be flushed with oxygen-free nitrogen (OFN). It may be necessary to repeat the flushing process multiple times. Compressed air or oxygen should not be used for flushing. The process involves breaking the vacuum in the system with OFN, filling until the working pressure is achieved, venting to the atmosphere, and then pulling down to a vacuum. This process should be repeated until no refrigerant remains in the system. When the final OFN charge is used, the system should be vented to atmospheric pressure to enable work to be conducted. It is crucial to

ensure that the vacuum pump outlet is not near any ignition sources and that there is proper ventilation available.

17.8. Charging Procedures

In addition to conventional charging procedures, the following requirements must be followed:

17.8.1. 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.

17.8.2. Store cylinders in an upright position.

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

17.8.4. Label the system when the charging process is complete, if it hasn't been labelled already.

17.8.5. Exercise extreme care to avoid overfilling the refrigeration system. Before recharging the system, it should be pressure tested with OFN. The system should also undergo a leak test after charging but before commissioning. A follow-up leak test should be performed before leaving the site.

17.9. Decommissioning Procedure

Before proceeding with the decommissioning procedure, it is essential for the technician to have thorough familiarity with the equipment and its details. It is recommended as good practice to safely recover all refrigerants. Before starting the task, an oil and refrigerant sample should be taken for analysis in case it is needed before reusing the reclaimed refrigerant. Ensure that there is electrical power available before commencing the task.

The decommissioning procedure should be carried out as follows:

17.9.1. Familiarize yourself with the equipment and its operation.

17.9.2. Isolate the system electrically.

17.9.3. Before starting the procedure, ensure the following:

i. Mechanical handling equipment is available if needed for handling refrigerant cylinders.
ii. All personal protective equipment is available and being used correctly.
iii. The recovery process is supervised at all times by a competent person.
iv. The recovery equipment and cylinders conform to the appropriate standards.

17.9.4. If possible, pump down the refrigerant system.

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

17.9.6. Ensure that the cylinder is placed on the scales before starting the recovery.

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

17.9.8. Do not overfill the cylinders (do not exceed 80% volume liquid charge).

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

17.9.10. After filling the cylinders correctly and completing the process, promptly remove the cylinders and equipment from the site and close off all isolation valves on the equipment.

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

17.10. Labelling

Equipment that has been decommissioned and emptied of refrigerant should be labelled accordingly. The label should include the date and signature. Additionally, ensure that there are labels on the equipment indicating that it contains flammable refrigerant.

17.11. Recovery

When removing refrigerant from a system, whether for servicing or decommissioning purposes, it is crucial to follow recommended practices to ensure safe handling and proper disposal. Here are the improved guidelines for handling refrigerant removal:

17.11.1. Safe Removal: It is recommended to remove all refrigerants from the system safely. This involves using appropriate equipment and following proper procedures to prevent any leaks or releases that could harm the environment or pose safety risks.

17.11.2. Use of Proper Recovery Cylinders: When transferring refrigerant into cylinders, ensure that only suitable refrigerant recovery cylinders are used. Make sure you have the correct number of cylinders to accommodate the total system charge. These cylinders should be designated for the specific refrigerant being recovered and properly labeled for identification.

17.11.3. Cylinder Requirements: The recovery cylinders should be equipped with a pressure relief valve and functioning shut-off valves. Prior to recovery, it is advisable to evacuate empty recovery cylinders and, if possible, cool them down.

17.11.4. Well-Maintained Recovery Equipment: The recovery equipment used should be in good working order and suitable for handling flammable refrigerants if applicable. It should come with a set of instructions for proper operation. Additionally, calibrated weighing scales should be available and functional for accurate measurement.

17.11.5. Leak-Free Hoses: Ensure that the hoses used for recovery are in good condition and equipped with leak-free disconnect couplings. This helps to prevent refrigerant leaks during the recovery process.

17.11.6. Equipment Maintenance: Before using the recovery machine, perform a thorough check to ensure it is in satisfactory working condition and has been properly maintained. Pay particular attention to electrical components to ensure they are sealed to prevent ignition in case of a refrigerant release. If any doubts arise, consult the manufacturer for guidance.

17.11.7. Proper Disposal: The recovered refrigerant should be returned to the refrigerant supplier using the appropriate recovery cylinder. It is important not to mix different refrigerants within recovery units or cylinders. Additionally,

arrange for the completion of a relevant Waste Transfer Note to document the proper disposal of the refrigerant.

17.11.8. Compressor and Oil Removal: If compressors or compressor oils need to be removed, ensure they are evacuated to an acceptable level to eliminate any remaining flammable refrigerant in the lubricant. This evacuation process should be completed before returning the compressor to the suppliers. Only employ electric heating on the compressor body for accelerating this process. When draining oil from a system, it should be done safely and according to proper procedures.

Following these guidelines will help ensure the safe and responsible removal of refrigerants from a system. It is always important to prioritize safety, environmental protection, and compliance with manufacturer recommendations.

It is important to note that the procedures outlined here are general guidelines, and specific requirements may vary depending on the local regulations, equipment, and refrigerants involved. Always consult the relevant regulations, manufacturer's instructions, and applicable industry standards when performing refrigerant removal and recovery procedures.

**18. SPECIFICATION:**

| | |
|---|---|
| Model No. | AC2401 |
| Power Source | 220~240V-50Hz |
| Rated Power Input | 1000W |
| Cooling Capacity | 2600W |
| Moisture Removed (30°C ， RH80%) | 40 litres/day |
| Refrigerant | R290, 0.103kg |
| Permissible Excessive Operating Pressure Discharge: | Suction 0.6MPa |
| | Discharge 2.5MPa |
| Maximum allowable pressure | 5.0MPa |
| Dimensions (mm) | 310 W x 340 D x 715 H |

Fuse parameters of the machine: Type: 5ET or SMT  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.

**19. 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 (found on the rating label on the rear case) for future reference.**

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