

RHINO

PORTABLE AIR CONDITIONER AC12000

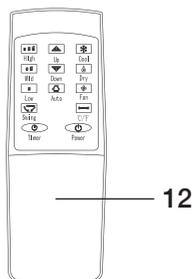
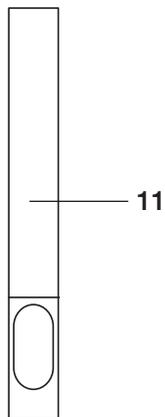
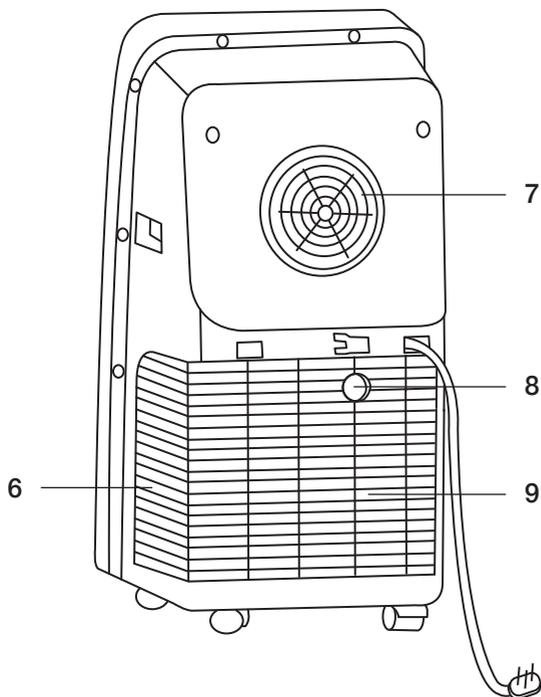
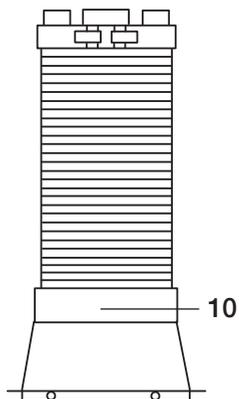
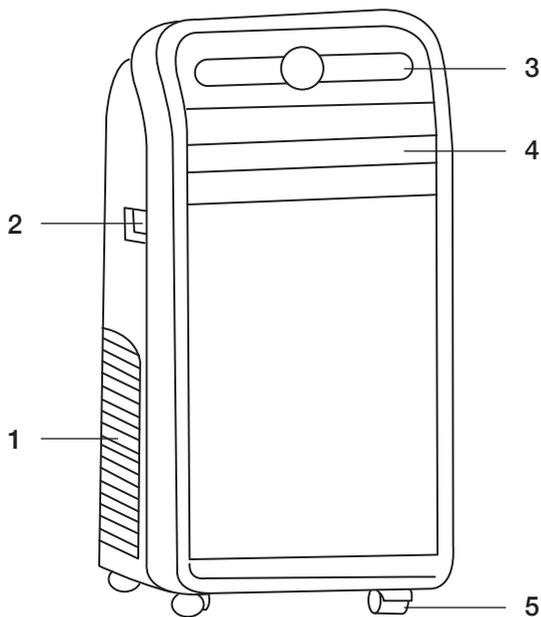
OPERATING INSTRUCTIONS



RHINO AC12000: H03621



RHINO - Designed and distributed by Toolstream Limited.



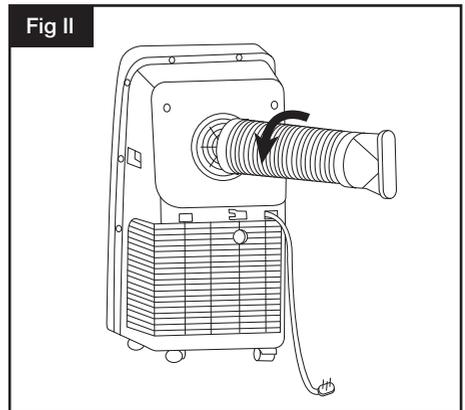
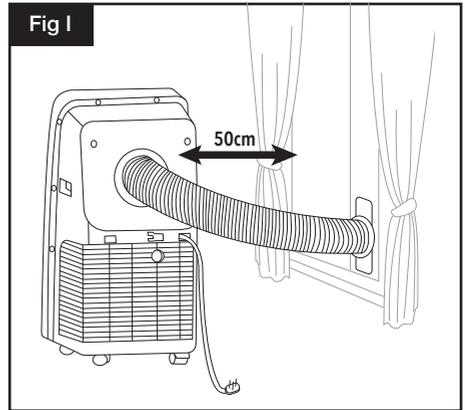
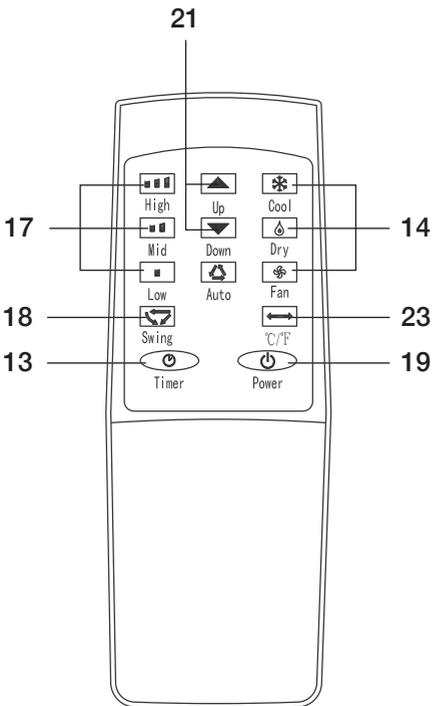
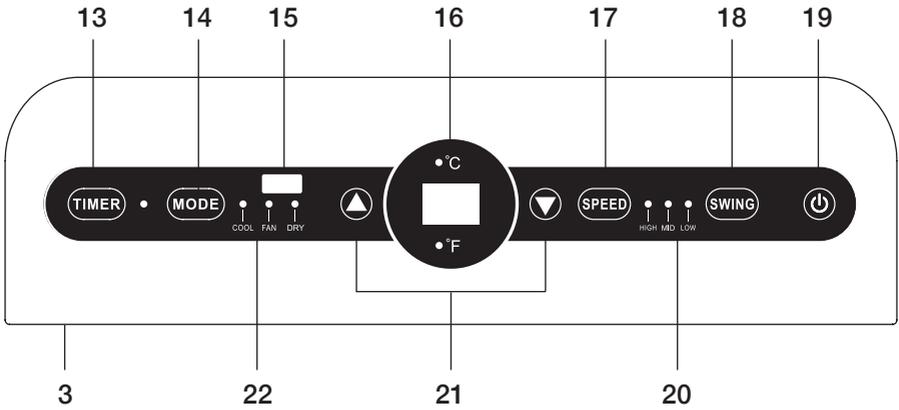


Fig III

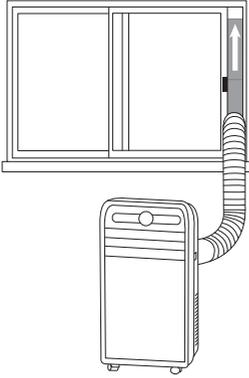


Fig IV

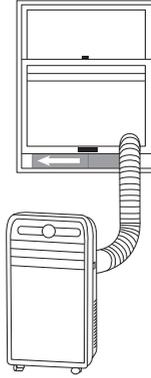


Fig V

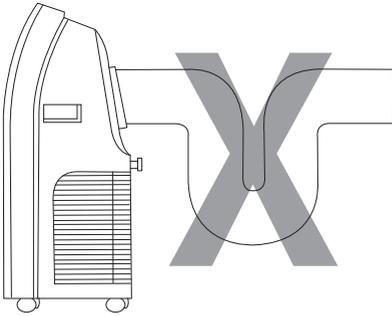


Fig VI

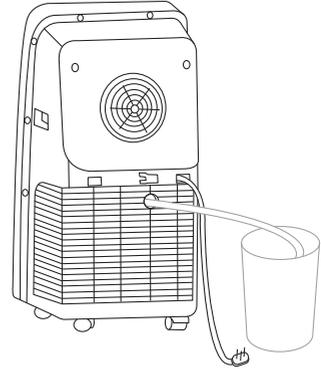


Fig VII

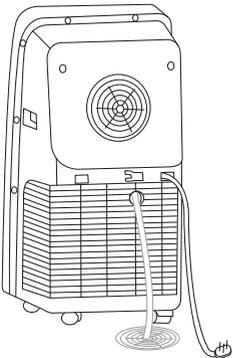


Fig VIII

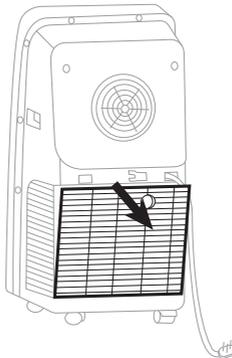
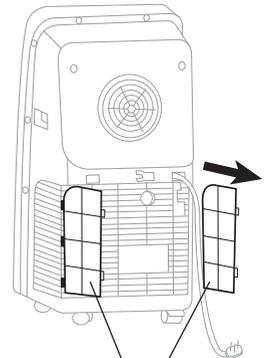


Fig IX



Introduction

Thank you for purchasing this Rhino product. This manual contains information necessary for safe and effective operation of this product. This product has unique features and, even if you are familiar with similar products, it is necessary to read this manual carefully to ensure you fully understand the instructions. Ensure all users of the product read and fully understand this manual. Keep these instructions with the product for future reference.

Description of Symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection
Wear eye protection
Wear breathing protection
Wear head protection



Wear hand protection



WARNING – To reduce the risk of injury, user must read instruction manual



Caution!



WARNING - Flammable material



Class I construction (protective earth)



Conforms to relevant legislation and safety standards



Environmental Protection
Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice

Technical Abbreviations Key

V	Volts
~	Alternating current
A, mA	Ampere, milli-Amp
Hz	Hertz
dB(A)	A-weighted decibels
BTU/H	British Thermal Unit per hour
m ³ /h	Cubic meters per hour
MPa	Megapascal

Specification

Voltage: 220-240V~ 50Hz
 Rated Capacity: 3500W
 Rated Capacity Power: 1370W
 Max Power Input: 1500W
 Plug Fuse Rating (UK only): 13A (BS 1362)
 Cooling Capacity: 12000 BTU/H
 Refrigerant/Charge: R290/245g
 Permissible Excessive Operating Pressure (suction/discharge): 2.8MPa/0.8MPa
 Maximum Allowable Pressure (low pressure side/high pressure side): 3.8MPa/1.3MPa
 Maximum Air Volume: 350 m³/h
 Minimum Air Volume*: 250m³/h
 Dehumidifier: 1.2L/h
 Weight: 2.8kg
 Dimensions (H x W x D): 830 x 443 x 340mm
 Noise: 65dB(A)

As part of our ongoing product development, specifications of Rhino products may alter without notice.

* When used in air conditioner or dehumidifier mode, the fan can work continuously under normal conditions to provide the minimum air volume of 100m³/h even when the compressor is closed due to the low temperature.

General Appliance Safety Warnings

⚠ WARNING: 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.

⚠ WARNING: Read all safety warnings, instructions, illustrations and specifications provided with this appliance. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "appliance" in the warnings refers to your mains-operated (corded) appliance or battery-operated (cordless) appliance.

- a) Keep appliance away from heat, sharp objects, oil and other hazards.
- b) Do not place the cord under carpets or other textile coverings such as clothes or dust sheets.
- c) Do not place the cord in areas where it may pose a trip hazard.
- d) Do not use the appliance if the cable or plug is damaged.
- e) Do not use the appliance if the switch does not turn it ON and OFF. Any appliance that cannot be controlled with the switch is dangerous and must be repaired.
- f) Ensure appliance is switched OFF before connecting to mains power supply.
- g) Disconnect the plug from the source and/or remove the battery pack, if detachable, from the appliance before making any adjustments, changing accessories, or storing appliances. Such preventive safety measures reduce the risk of starting the appliance accidentally.
- h) Store idle appliances out of the reach of children and do not allow persons unfamiliar with the appliance or these instructions to operate the appliance. Appliances are dangerous in the hands of untrained users.
- i) Maintain appliances and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the appliance's operation. If damaged, have the appliance repaired before use. Many accidents are caused by poorly maintained appliances.
- j) Children must not play with the appliance. Cleaning and user maintenance must not be made by children without supervision.
- k) DO NOT use appliance in wet or damp conditions, such as in bathrooms.
- l) DO NOT touch appliance switch, controls, cabling, plug or connection with wet hands.
- m) When moving from one place to another, consider the weight of the machine.

1) Electrical safety

- a) Appliance plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) appliances. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the appliance. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- c) When used in Australia or New Zealand, it is recommended that this appliance is ALWAYS supplied via Residual Current Device (RCD) with a rated residual current of 30mA or less.
- d) Use proper extension cord. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.
- e) Always check that the power supply corresponds to the voltage on the rating plate. The electric motor is designed for a single voltage only.
- f) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

2) Service

- a) Have your appliance serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the appliance is maintained.

Air Conditioner Safety Warnings

- a) For indoor use only.
- b) DO NOT use appliance in wet or damp conditions, such as in bathrooms.
- c) DO NOT place the appliance near or next to water or other liquid. Prevent water or liquid from entering the appliance.
- d) Check the power cord frequently. When the power cord, plug or appliance is damaged, do not operate. If the power cord is not long enough, a power extension cable can be used.
- e) DO NOT place near any heat source and avoid direct sunlight.
- f) Turn off the appliance before unplugging.
- g) Turn off and unplug the appliance before removing, cleaning or replacing parts.
- h) DO NOT allow children to play with the appliance.
- i) DO NOT insert your fingers or any hard object into the Air Outlet (7).
- j) If the power cord is damaged the unit should not be used and repaired immediately by qualified persons, manufacturer's representative or the manufacturer.
- k) Use ONLY the accessories provided with the appliance, using any other parts may result in damage or impaired performance.
- l) Keep any required ventilation openings clear of obstruction.
- m) Ducts connected to an appliance shall not contain a potential ignition source.
- n) Do not perforate any of the components in the refrigerant circuit. Refrigerant gas may be odourless.

Even when used as prescribed it is not possible to eliminate all residual risk factors. Use with caution. If you are at all unsure of the correct and safe manner in which to use this appliance, do not attempt to use it.

WARNING:

- R290 refrigerant gas complies with European environmental directives. This appliance contains approximately 235g of R290 refrigerant gas.
- Appliance shall be installed, operated and stored in a room with a floor area larger than 12m².

Product Familiarisation

1. Air Inlet (L)
2. Handle
3. Control Panel
4. Air Adjustment Louvers
5. Caster
6. Air Inlet (R)
7. Air Outlet
8. Drain Outlet
9. Air Inlet Grille
10. Exhaust Hose
11. Sealing Plate
12. Remote Control
13. Timer Button
14. Mode Button
15. Remote Control Receiving Window
16. Temperature/Time Display Window
17. Speed Button
18. Swing Button
19. Power Button
20. Speed Indicator Lights
21. Temperature/Time Adjustment Buttons
22. Mode Indicator Lights
23. C/F Switching Button
24. Drain Hose (not shown)
25. Filter Screens

Intended Use

Portable air conditioning unit with 3 modes: COOL (air conditioning), FAN (forced air) or DRY (dehumidification). Suitable for small to medium sized rooms.

The tool must ONLY be used for its intended purpose. Any use other than those mentioned in this manual will be considered a case of misuse. The operator, and not the manufacturer, shall be liable for any damage or injury resulting from such cases of misuse. The manufacturer shall not be liable for any modifications made to the tool, nor for any damage resulting from such modifications.

Unpacking Your Tool

- Carefully unpack and inspect your product. Fully familiarise yourself with all its features and functions.
- Ensure all parts of the product are present and in good condition.
- If any parts are missing or damaged, have such parts replaced before attempting to use this product.

Before Use

⚠ WARNING: Appliance shall be installed, operated, and stored in a room with a floor area larger than 12m².

IMPORTANT: Before first use, place the unit in an upright position for 24 hours. This is important to allow the refrigerant to settle and avoid damaging the unit.

- Ensure that the Air Outlet (7) and Air Inlets (1, 6 & 9) are never blocked.
- Only operate the unit on a horizontal surface to ensure no water leaks out.
- Only operate the appliance in a static, vertical position.
- Do not use on an inclined or uneven surface.
- Ensure the cord is completely extended before use.

Placement

- Place the appliance on dry level surface and keep it at least 50cm away from any objects/surfaces to ensure optimum ventilation (Fig. I).

Installation

1. To connect the Exhaust Hose (10) into the rear of the appliance, align and twist anti-clockwise to secure into position (Fig. II).
2. Insert the Exhaust Hose into the window Sealing Plate (11) and adjust the window to locate firmly against the Sealing Plate (Fig. III & IV). The length of the Sealing Plate is adjustable.
3. If your window does not accommodate this style of fitting, ensure the end of the Exhaust Hose is securely positioned outside of the room where the appliance is operating.

Note: The temperature of the air expelled from the air hose will be warm and therefore consideration is required if the outlet of the duct is not outside.

Incorrect installation

- It's important to keep the Exhaust Hose (10) smooth. Incorrect installation will affect the performance of the appliance.
- Prevent the Exhaust Hose from bending / kinking beyond 90° (Fig. V). Restricted exhaust air flow will impair performance and may cause failure.
- Ensure air can flow smoothly through the Exhaust Hose.

IMPORTANT: The Exhaust Hose is designed especially for this model. Do not replace or lengthen it; otherwise, it could result in failure or poor performance.

Operation

Control Panel (3) and Remote Control (12)

Timer Button (13)

- Press the button to set the timer ON.

Mode Button (14)

- On the Control Panel: repeatedly press the button to cycle through the 3 modes, COOL (air conditioning), FAN (forced air) or DRY (dehumidification).
- On the Remote Control: select and press one of the 3 buttons to choose COOL (air conditioning), FAN (forced air) or DRY (dehumidification) mode.
- The Mode Indicator Lights (22) will indicate the selected mode.

Remote Control Receiving Window (15)

- Press the button to set the timer ON.

Temperature / Time Display Window (16)

- This window displays the set temperature (Cool mode), room temperature (Fan or Dry mode) or the time delay (Timer mode).

Speed Button (17)

- On the Control Panel: repeatedly press the button to cycle through the 3 fan speeds, high/mid/low.
- On the Remote Control: press one of the 3 buttons to choose high/ mid/low fan speed.

Swing Button (18)

- Press this button to activate the Air Flow Louvres (4).

Note: The Air Flow Louvres oscillate automatically to distribute the air flow.

Power Button (19)

- Press the button to turn the appliance ON/OFF.

Speed Indicator Lights (20) – Control Panel only

- Indicates the speed selected.

Temperature / Time Adjustment Buttons (21)

- Press the up/down buttons in cooling mode to increase/reduce the temperature setting.
- Press the up/down buttons during timing mode to adjust the timing interval (1-24hrs in 1hr intervals).
- Press the up/down buttons simultaneously to switch the display between Fahrenheit and Centigrade.
- The indicator lights above and below the display screen indicate the chosen measurement type (°C or °F).

Mode Indicator Lights (22) – Control Panel only

- Indicates the selected mode on the Control Panel (COOL, FAN or DRY).

C/F Switching Button (23) – Remote Controller only

- Press this button on the Remote Controller to switch between Fahrenheit and Centigrade.

Cooling mode (Cool)

- Use the Temperature / Time Adjustment Buttons (21) to adjust the temperature setting.
- Use the Speed Button (17) to choose high/mid/low speed.

Fan mode (Fan)

- Press the Speed Button (17) to choose high/mid/low fan speed.
- The temperature can't be adjusted in this mode.

Dehumidification mode (Dry)

1. Remove the plug from the Drain Outlet (8) and insert the Drain Hose (24).
2. Place the other end of the Drain Hose in a container or directly into a drain.
3. Ensure the drain or container is below the level of the Drain Outlet (Fig. VI).
 - When the room temperature is $\geq 17^{\circ}\text{C}$ the compressor will switch ON. If the room temperature is $\leq 16^{\circ}\text{C}$ the compressor will switch OFF.
 - The fan runs at the low speed setting, and can't be adjusted.
 - The temperature can't be set when using the dehumidification mode.

IMPORTANT: If the plug is not removed from the Drain Outlet (8) it will cause a decrease in performance and the "FL" (water full alarm) code will be displayed in the Temperature/Time Display Window (16).

Timer

- The timer can be used to set either a delay before the unit switches ON (ON timer); or the time the unit will continue to run before switching OFF (OFF timer).
- The unit display is in increments of 1 hour (1-24hrs).

Setting the ON timer:

1. Whilst the unit is connected to the power but not turned ON using the Power button (19), press the Timer Button (13) to set the ON timer.
2. Use the Temperature/Time Adjustment Buttons (21) to set the delay before the appliance switches ON.
3. When the timer is set, the mode, speed and temperature settings can be set, ready for when the unit turns ON.

Setting the OFF timer:

1. To adjust the time whilst the unit is ON, press the Timer Button to set the OFF timer.
2. Use the Temperature/Time Adjustment Buttons to adjust the delay before the appliance switches OFF.
3. The appliance will continue to run for the set time before switching OFF.

Switching the timer OFF:

To switch OFF, press the Timer Button twice. The timer function will switch off after a few seconds.

Accessories

- A full range of accessories including filters, is available from your Toolstream stockist.

Maintenance

⚠ WARNING: Ensure that the appliance is switched off and the plug is removed from the power point before making any adjustments or carrying out maintenance procedures.

- In case of a fault with the unit or reduced performance, turn the unit off and unplug. Repairs should be carried out by an authorised Rhino service agent.

General inspection

- Inspect the supply cord of the tool, prior to each use, for damage or wear. Repairs should be carried out by an authorised service centre. This advice also applies to extension cords used with this tool.

Cleaning

- Keep the appliance clean at all times. Dirt and dust will cause internal parts to wear quickly and shorten the device's service life.
- Clean the body of the appliance with a soft damp cloth. Do not get the appliance wet.
- Do not spray appliance with or immerse in water or other liquids.
- Never allow water or liquid to drip into the appliance body.
- Do not use caustic agents such as solvents or paint thinner to clean the appliance. If required, use a neutral detergent to remove dirt. Do not use hot water to clean any part of the appliance.

Drainage method

This product is equipped with an automatic water vapourisation system. The condenser is cooled with the circulating of condensing water, to improve cooling efficiency and save energy.

- If the internal container is full of water, the display screen will display "FL", and the compressor stops working automatically.

1. Remove the plug from the Drain Outlet (8).
2. Use a suitable container to collect the water or direct it down a suitable drain.
3. Replace the plug.

Filter screen

- Wash the Filter Screens (25) once every two weeks. If they are blocked by dust, efficiency of the appliance will be reduced.

1. Take out the Air Inlet Grille (9) and pull out the Filter Screens at both sides (Fig. IX).
2. Use warm soapy water (about 40°C) to gently clean the filters, then dry in the shade, avoiding direct sunlight.

Storage

If the appliance will not be used for a long time:

1. Remove the plug from the Drain Outlet (8) and allow to drain.
 2. Run the appliance in fan mode for 2 hours until its dry inside.
 3. Turn off the appliance and unplug.
 4. Wash and dry the Filter Screens (25), and reassemble.
 5. Remove the Exhaust Hose (10).
 6. Cover the appliance with a plastic bag and place it in a secure, dry place out of the reach of children.
- Store in a well-ventilated area of at least 12m^2 .
 - When this appliance is stored for a long period of time ensure it is not exposed to excessive dust, extremes of temperature, UV radiation or direct sunlight.

⚠ WARNING: Do not store in a room with continuously operating open flames (e.g. an operating gas appliance, such as a hob) or ignition sources (e.g. an operating electric heater).

Contact

For technical or repair service advice, please contact the helpline on (+44) 1935 382 222

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The Netherlands

Disposal

Always adhere to national regulations when disposing of electrical appliances that are no longer functional and are not viable for repair.

- Do not dispose of power tools, batteries or other waste electrical and electronic equipment (WEEE), with household waste.
- Contact your local waste disposal authority for information on the correct way to dispose of power tools and batteries.

Troubleshooting

Problem	Possible Cause	Solution
The appliance doesn't work.	Appliance not plugged in.	Plug the unit in.
	The display panel displays "FL".	Restart the appliance after power off and draining, and normal function should return.
	Time off function is started.	The appliance can be restarted 3 minutes after being turned off.
The appliance starts frequently.	Direct sunlight.	Remove/limit direct sunlight or re-position the appliance.
	Doors and windows keep opening; there are lots of people or a heat source in the room.	Close door and windows, remove heat source.
	Filter Screens (25) are very dirty.	Clean or replace Filter Screens
	Air Inlets (1, 6 & 9) or Air Outlet (7) is blocked.	Remove blockage.
The appliance is making a loud noise.	The appliance is placed unevenly.	Place it on an even and firm surface, avoid shaking.
The compressor doesn't work.	Its delay protection has started.	Wait for 3 minutes, and turn it back on after temperature decreases.

Intelligent error detection

Error Code	Problem Notification	Solution
FL	Water full.	Empty the water tank.
E1	Abnormal reading of the coil pipe sensor.	Replace coil pipe sensor.
E2	Abnormal reading of the room temperature sensor.	Replace room temperature sensor.
EF/EC	Up/down fan motor error.	Replace the fan motor.
Pressure protection	Compressor shut down.	Re-start after a few minutes.
E4	Spray motor error.	Re-start or replace spray motor.

RHINO

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