



RHINO ULTRA EC FAN

Safety & Operating Instructions

Models: 4" RFNS100 / 5" RFNS125 / 6" RFNS150 /
8" RFNS200 / 10" RFNS250 / 12" RFNS315



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Made in PRC





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WARNING: TO AVOID THE RISK OF ELECTRICAL SHOCK, FIRE OR INJURY TO PERSONS, ALWAYS MAKE SURE THE PRODUCT IS UNPLUGGED FROM THE ELECTRICAL OUTLET BEFORE RELOCATING, SERVICING OR CLEANING IT.

BE SURE TO SAVE THIS MANUAL FOR FUTURE REFERENCE

Thank you for purchasing this Rhino Ultra EC fan. There are six models 100mm(4"), 125mm(5"), 150mm(6"), 200mm(8"), 250mm(10"), 315mm(12") in this series. Each are small but powerful fans and have been manufactured to ensure safety, reliability and ease of use. They help create the optimum airflow whilst using less energy compared to that of a standard AC fan.

CAUTION: Keep this instruction manual safe for future reference, along with the box for storage when the fan is not in use.

Please read the instruction manual carefully before use to avoid serious injury.

IMPORTANT INSTRUCTIONS

When using the Rhino Ultra EC fan, basic electrical safety precautions should always be followed.

- Ensure all the packaging has been removed
- Check the power cord and plug regularly for damage. If the power cord or plug is damaged, **DO NOT** use. It must be replaced by the manufacturer or a qualified person in order to avoid an electrical hazard
- **DO NOT** pull the cord too hard as it could damage and fray. If it becomes damaged after prolonged use it should be repaired by a qualified technician
- Ensure that the voltage used corresponds to the voltage indicated on the rating plate
- **DO NOT** allow the power cord or any other parts of the fan to touch hot surfaces, open flames, cooking or other heating appliances and **DO NOT** place near hot gas or electric burners
- This product is intended for household use **ONLY** and not commercial, industrial or outdoor use

- **DO NOT** cover any openings on the fan or insert objects or parts of the body into any of its openings when fan is on or off
- To protect against electric shock, do not immerse unit, plug or cord in water or other liquids
- Keep the cord away from areas where it could be walked on or tripped over
- To disconnect, first turn the unit off, grip the plug and pull from the wall outlet. **NEVER** pull the plug by the cord
- Turn the unit off when moving to another location and before cleaning
- **DO NOT** operate if the housing is damaged
- There are no user serviceable parts in this product. Refer servicing to a qualified person
- This application should **NOT** be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless supervised / instructed and the hazards are understood.
- Keep away from children
- This is **NOT** a toy



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Specifications						Specifications						
Model N°	Fan Size	Rated Voltage	Maximum Power	Frequency	Maximum Speed	Maximum Airflow	Noise Level	Static Pressure	Impeller Design	Motor Type	Net Weight	IP Rating
RFNS100	100mm (4")	220V +/-10%	18W	50Hz	5000 RPM	275m³/h	56.8dB(a)	334pa	Mixed flow	EC motor	1.1kg	IPX2
RFNS125	125mm (5")	220V +/-10%	20W	50Hz	5000 RPM	280m³/h	54.4dB(a)	350pa	Mixed flow	EC motor	1.1kg	IPX2
RFNS150	150mm (6")	220V +/-10%	40W	50Hz	5000 RPM	594m³/h	60dB(a)	500pa	Mixed flow	EC motor	1.6kg	IPX2
RFNS200	200mm (8")	220V +/-10%	75W	50Hz	3800 RPM	1205m³/h	62dB(a)	520pa	Mixed flow	EC motor	2.5kg	IPX2
RFNS250	250mm (10")	220V +/-10%	150W	50Hz	3200 RPM	1808m³/h	65dB(a)	510pa	Mixed flow	EC motor	3kg	IPX2
RFNS315	315mm (12")	220V +/-10%	320W	50Hz	3000 RPM	2987m³/h	78dB(a)	677pa	Mixed flow	EC motor	8.5kg	IPX2

*All of the above is dependent on fan controller and environment.

OPERATING INSTRUCTIONS

- Check there is no damage to the fan, wires or plug
- Check the direction of the air flow – this is indicated on the fan by arrows
- Place fan in required position using ratchets / cables / screws
- **DO NOT** install fan on weak surfaces
- Connect any ducting / filters
- Choose desired way to control fan – either with the standard Varispeed controller or by using one of the three cables all supplied in the box. These connect to the side of the fan
- Connect plug to the mains
- Set required fan speeds
- Test and adjust accordingly – after turning the power on the fan should rotate freely and build up speed normally
- To operate the fan at full speed, insert the full speed plug.

MAINTENANCE

- Clean the unit regularly to ensure the blades can move freely
- **DO NOT** clean whilst the unit is switched on. Turn off and unplug the unit
- **DO NOT** use cleaning detergent or chemicals to clean the fan
- Wipe the unit and blades with a damp cloth
- **DO NOT** spray water or liquid on or into the fan
- Never immerse in water or let water enter the fan controller outlet
- **DO NOT** clean the unit with cloths that have metal parts

CONTENTS

Each Box Contains:

- Adaptors to accommodate RJ45, and 3-pin controllers
- 'Varispeed' controller
- Fan with UK plug & wall bracket
- Full speed plug



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STORAGE

- When not in use store in a cool dry location. To prevent dust and dirt use the packaging to re-pack the unit
- Follow the maintenance instructions

PROBLEM SOLVING

- Ensure there is a fan controller attached
- If blades do not rotate – check all cables and plugs are connected correctly
- Check correct voltage is being used in accordance with the fan
- Check the fan speed is set up correctly
- If there is abnormal noise check the fan is fitted correctly with correct fastenings (excessive vibration will shorten the life span of the fan)

GENERAL ADVICE

- The fans can be used with different controllers, but the optimum RPM may vary
- Selecting different RPM will affect the volume of the air flow, noise and pressure in the ducting
- The fan must be attached to a fan speed controller for it to power on. Each controller may give a different reading than those listed
- The fans can be connected to controllers requiring RJ45 or 3-pin by using the adaptors supplied, a jack plug controller can also be connected directly into the unit

CONFORMITY WITH DIRECTIVES

All models are CE marked to denote conformity with Directives 2014/35/EU (low voltage) and 2014/30/EU (Electromagnetic Capability), as amended.

All models are UKCA marked to denote conformity with Directives, Electrical Equipment (Safety) Regulations 2016 and Electromagnetic Compatibility Regulations 2016, as amended.

Rhino 10" Ultra Fan (RFNS250) - EN50564:2011 ErP rating.
Rhino 12" Ultra Fan (RFNS315) - EN12759-4:2019 ErP rating.

WARRANTY

This product is guaranteed under warranty and covers defects in material or workmanship from 2 years of date of purchase. The original bill of purchase (with purchase date) must be submitted.

The warranty will not apply in cases of misuse, by non-compliance of the instructions; degradation from regular or incorrect use, e.g. overloading, non-approved accessories, force or damage caused by external forces, if the plug has been tampered with or removed, partially or completely dismantled product, or interference by non-qualified persons.

ENVIRONMENTAL PROTECTION



Disposal

This symbol indicates that this product must not be placed in general household waste. It should be sent to a separate recycling facility for recovery, check local authorities for details.

By responsible recycling and separating this product from other household waste it will help protect the environment and human health, as the volume of waste sent to incinerators or land-fills will be reduced and natural resources conserved.