

ABOUT US

We are a privately owned New Zealand based company made up of self proclaimed "plant geeks" (some of which also happen to be globally acclaimed growing experts!). We've got practical growing experience and plenty of expertise which enables us to do what we love - produce premium products to delight professional growers and home gardeners alike!

Improve your growing with Green Grow Labs range of premium nutrients, growing mediums, lighting and equipment.

Learn more at:
greengrowlab.com

Happy Growing! Love from The GreenGrow Team x

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, check local authorities for details.



Premium EC Silenced Fan

USER GUIDE

SAFETY & OPERATING INSTRUCTIONS



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




Thank you for purchasing the Green Grow Lab EC Silenced Fan.

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

Statements in this instruction with the mark * refer to the optional features only available in fans with **Multiple Speed Control Signals**. Please consult us for availability.



	<p>! WARNING:</p> <p>Electric shock hazard. Do not open. No user servicable parts inside. Refer servicing to qualified service personnel.</p>
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- !** 1. To avoid the risk of electrical shock, fire or injury, always make sure the product is unplugged from the electrical outlet before relocating, servicing or cleaning it.
- 2. When using the Green Grow Lab EC Silenced Fan , electrical safety precautions should always be followed.

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1 SAFETY INSTRUCTIONS

1.1 WARNINGS

This appliance is designed for use by adults or responsible individuals who are experienced and knowledgeable about its operation. Please keep it out of reach of children and ensure they do not play with it. If someone with reduced capabilities wishes to use this appliance, they should do so under the supervision or guidance of someone responsible for their safety.

To ensure safety, please read the following instructions before using this fan.

Use this fan only as intended. Use other than as described may result in electric shock or injury.

WARNING: EC FANS WITH MULTIPLE SPEED CONTROL SIGNALS DO NOT FUNCTION WITHOUT SPEED CONTROL CONNECTION. SPEED CONTROL MUST BE CONNECTED BEFORE POWER UP.

1.2 SAFETY INSTRUCTIONS

- This product is intended for indoor use only.
- Install with duct on inlet and duct and/or fan attenuator/silencer on exhaust of fan.
- Install guard screens if personnel have access to inlet or exhaust of fan.
- For general ventilation use only.
- **Warning:** Do not use to exhaust hazardous explosive materials and vapors.
- Ensure that the fan is switched off from the supply mains before removing the guard.
- Precautions must be taken to avoid the back-flow of gases, in this case, a check valve is necessary.
- **DO NOT** pull the cord too hard as it could damage and fray. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid an electrical hazard.
- **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.
- Ensure all the packaging has been removed and that the voltage used corresponds to the voltage indicated on the rating plate.

- **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 tipped 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.

DO NOT use this fan in the following circumstances:

- Flammable or hazardous atmosphere, near explosive gases, or chemical dust.
- Environmental humidity is above 90%.
- Operating temperature is less than 15°F/ -10°C, or above 140°F/ 60°C.
- Environments with significant dust.
- Places where children or pets have easy access to the fan blades.

1.3 MAINTENANCE

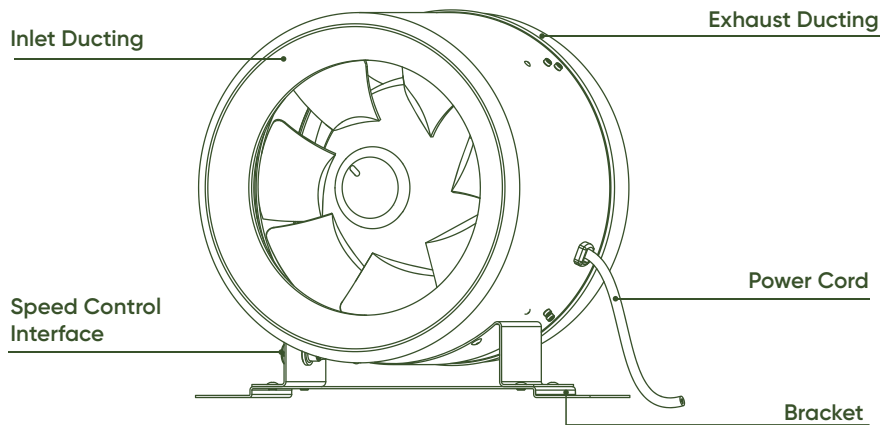
- Clean the unit regularly to ensure the blades can move freely.
- **DO NOT** clean whilst the unit is switched on. Turn off and unplug the unit.
- **DO NOT** use cleaning detergent or chemicals to clean the fan.
- Wipe the unit and blades with a damp cloth.
- **DO NOT** spray water or liquid on or into 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.

2 PRODUCT OVERVIEW

2.1 FEATURES

This Green Grow Lab EC Silenced Fan is powered by a cutting-edge EC motor featuring high static air pressure, aerodynamically-optimized airflow, quiet operation, and extremely high efficiency. Our fans are ideal for residential, commercial and industrial ventilation, and hydroponic ventilation (exhaust and intake).

2.2 PRODUCT CONTENT



GREEN GROW LAB EC SILENCED FAN

2.3 SPECIFICATIONS

2.3.1 GREEN GROW LAB ULTRA HIGH SPEED 250MM

FLOW RATE CHART



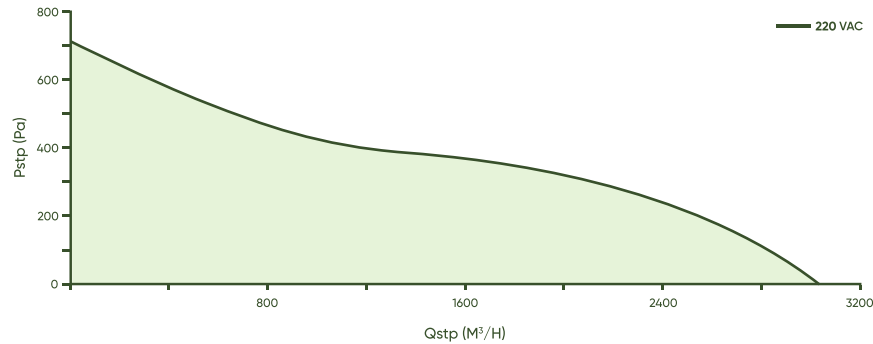
SPECIFICATIONS : GGL - EC - 250 ULTRA

Model	GGL-EC-250 ULTRA
Dimension	859mm(L) x 353mm(H)
Fan Size	10" / 250mm
Rated Voltage	220V~240V
Max. Power C.	150W
Frequency	50Hz/ 60Hz
Max. Speed	3200RPM
Max. Airflow	1065 CFM/ 1808M³H
Max. Static Pressure	52mmH ₂ O/ 510Pa

Signal Outputs	PWM, 0-10V, POT, FG
Max. Noise L	55dBA (1M-INLET)
Housing Material	Painted Steel
Acoustic Foam	Fire Proof
Motor Type	EC Motor
Net Weight	13.7kgs
IP Rating	IPX4
Installation	4 Hanging Brackets
Certifications	CE, SAA, ERP

2.3.2 GREEN GROW LAB ULTRA HIGH SPEED 315MM

FLOW RATE CHART



SPECIFICATIONS : GGL - EC - 315 ULTRA

Model	GGL-EC-315 ULTRA
Dimension	940mm(L) x 415mm(H)
Fan Size	12" / 315mm
Rated Voltage	220V~240V
Max. Power C.	320W
Frequency	50Hz/ 60Hz
Max. Speed	3000RPM
Max. Airflow	1757 CFM/ 2987M ³ H
Max. Static Pressure	69mmH ₂ O/ 677Pa

Signal Outputs	PWM, 0-10V, POT, FG
Max. Noise L	68dBA (1M-INLET)
Housing Material	Painted Steel
Acoustic Foam	Fire Proof
Motor Type	EC Motor
Net Weight	21kgs
IP Rating	IP65
Installation	4 Hanging Brackets
Certifications	CE, SAA, ERP

3 FAN CONTROLS

The Green Grow Lab EC Silenced Fan offers a standard variable speed controller via potentiometer.

It can also offer multiple ways to control the fan speed, supporting various HVACR control systems and compatible with other controllers by PWM& 0-10V.*

3.1 STANDARD CONTROL

All Green Grow Lab EC Silenced Fans come with a portable variable speed controller.

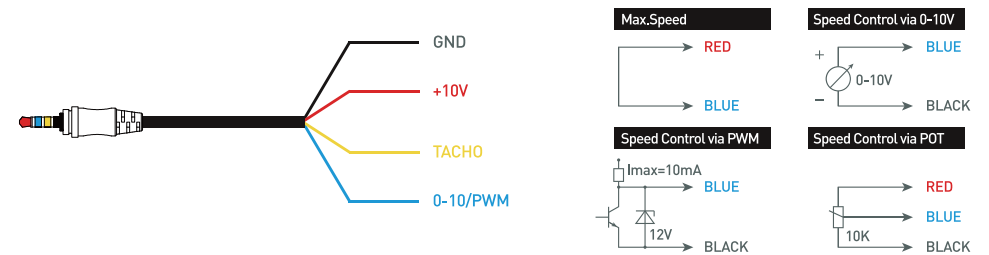


PORTABLE SPEED CONTROLLER

- 0-100% variable speed control by potentiometer
- Simple and portable

3.2 DIY 4-PINS SPEED CONTROL *

The Green Grow Lab EC Silenced Fan is packed with a DIY 4 pins connection cable, please refer to the diagram below.*



4 OPTIONAL CONTROLS & ACCESSORIES (SOLD SEPARATELY)

The Green Grow Lab EC Silenced Fan provides enhanced flexibility and speed control compatibility when used with accessories, **which are available for purchase separately.**



SMART CONTROLLER

6 speed controller with thermal probe for monitoring environmental temperature, accurate ventilation and energy saving, supporting control of up to 4 EC fans simultaneously and mode selection of Manual, Auto and Alert.



WIRELESS REMOTE WITH RECEIVER

Allows you to control your EC fan wirelessly. 6 pre-set speed levels (15-100% output). 50ft/ 15m signal range, which works through walls, floors and ceilings. Ideal for fans installed in hard-to-reach places.



ADAPTOR TO OTHER 3PINS CONTROLLERS

This adaptor has a male 3.5mm TRRS jack and female 3PINS connector. It gives additional support when using Green Grow Lab Silenced Fans with other EC fan controllers in the market.



ADAPTOR TO OTHER RJ45 CONTROLLERS

This adaptor is with 3.5mm TRRS male jack and RJ45 female connector. It gives additional support when using Green Grow Lab EC Silenced Fans with other EC fan controllers in the market.



3.5MM TRRS JACK EXTENSION CONTROL CABLE

5 meter long extension cable for flexible controller installation.



FULL SPEED PLUG

This plug is useful when no speed control is required. The fan will work at MAX speed once plugged.



WALL MOUNTED CONTROLLER

This controller gives 0-100% variable speed control and is easy to install and mount on the wall.

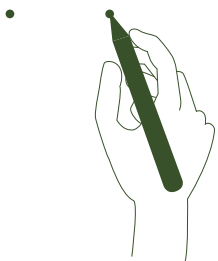
5 INSTALLATION

5.1 WARNING: MUST CONNECT SECURELY TO SPEED CONTROL BEFORE POWER UP

- Unpack and check fan for damage; ensure that the fan impeller spins freely and is not touching fan housing.
- Use a pre-filter on the absorption axis to prevent dust, oil and other foreign substances from building up on the impeller. Build up of dust and or foreign material can cause an out-of-balance impeller and excessive vibration. Excessive vibration will reduce fan life expectancy.
- Use the appropriate attachment screws for the surface material being selected to mount the fan. Use the supplied mounting bracket or hanger.
- Do not install fan on dry wall or weak surfaces.
- Do not deform fan bracket or fan housing.
- After completing the installation, electrical work and duct work, perform the test operation to confirm if the fan operates normally.
- After turning the power on the fan should rotate freely and build up speed normally.
- If there is abnormal noise or no rotation, check all connections and check power supply.
- Always install the fan at the height of 2.1 m or above.

5.2 WALL MOUNTED INSTALLATION

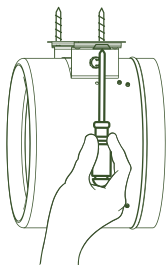
1 Mark the screw position on the wall.



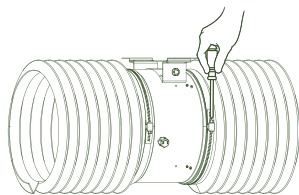
2 Punch holes in the wall.



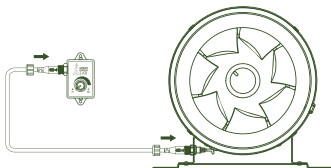
3 Screw the fan onto the wall.



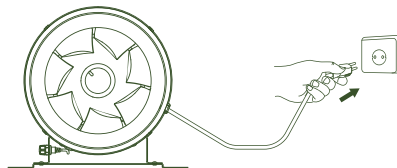
4 Connect the ducts on two sides with clamps.



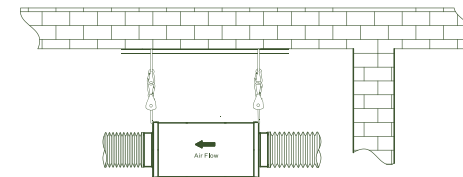
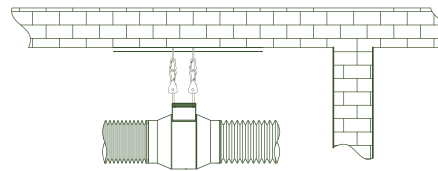
5 Connect the speed control to the fan and make sure the connections are in place and fastened.



6 Power up the fan.



5.3 HANG INSTALLATION



5.4 INTAKE AND EXHAUST

This fan can be used as either an intake fan or exhaust fan in grow rooms or tents to achieve optimal whole space ventilation.

- Used as the intake fan or opening: if it's not used as a fan, it must be situated at a bottom corner of your grow space.
- Used as the exhaust fan: it must be hung (shown above) or mounted at the highest opposite corner.

