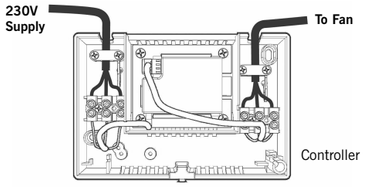
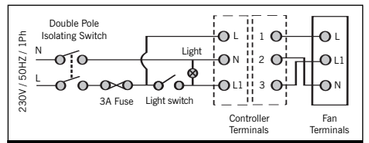
SELV Wiring Diagrams

The electrical connections must be carried out by a qualified electrician in accordance with IEE or local regulations.

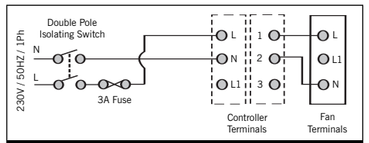
WARNING:
Isolate electricity supply before starting work.

- The fans are double insulated and do not require an earth connection.
- The fans must be connected to a double pole isolating switch having contact separation of at least 3 mm.
- When supplied from a 5 amp lighting circuit no local fuse is required.

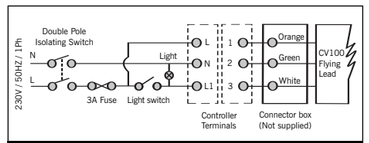




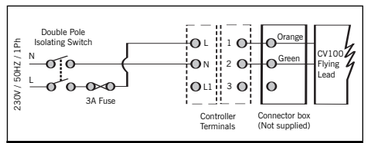
With Boost



Without Boost



In Line Mounting With Boost



In Line Mounting Without Boost

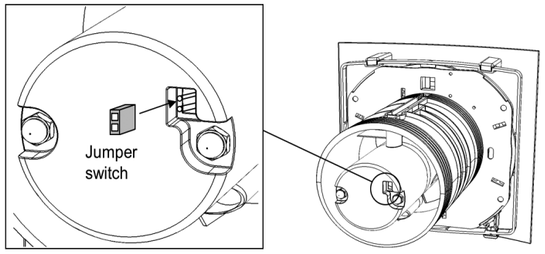
Maximum permissable cable distances between controller and fan: 1 & 1.5mm² = 8m 0.75mm² = 6m 0.50mm² = 4m

Constant Airflow Settings

WARNING:
Isolate electricity supply before removing or replacing jumper switch.

- Remove jumper switch if 10 L/S constant airflow rate is required.
- Replace jumper switch if 5 L/S constant airflow rate is required.*

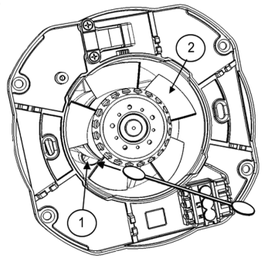
* Factory set at 5 L/S.



To Clean or Service Fan

WARNING:
Always isolate fan from mains supply before cleaning.
Do not use solvents to clean this fan.

- Loosen the two retaining screws under grille (Do not remove screws), then pull bottom of grille while lifting.
- The fan may now be cleaned using a brush, cotton bud or damp cloth. **DO NOT IMMERSE IN WATER.**
- Keep points 1 (sensor) and 2 (impeller) clean for best performance.
- After cleaning replace Internal Grille .



The Guarantee Period

This Greenwood product CV100 is guaranteed for a period of 2 years from the date of purchase of the Product against fault in manufacture. In case of such fault in manufacture apparent during the Guarantee Period, Greenwood may, at its absolute discretion, repair the product, replace the product free of charge or refund the cost of the product AS LONG AS AND ONLY IF:

1. The Product is returned to Greenwood within the Guarantee Period with evidence of purchase date:
2. The Product has not been misused or handled carelessly or used on an inappropriate voltage supply;
3. Repairs have not been attempted other than by Greenwood's service staff or authorised dealers; and
4. In Greenwood's sole discretion, the Product is found to be faulty. If it were not found to be faulty, the Product would be available for collection from the relevant Greenwoods premises within one calendar month and if it was not collected, it would be subsequently delivered by Greenwood and a delivery charge will be made. (the guarantee)

This guarantee does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss, damage or any costs incurred in the replacement of the faulty Product. This Guarantee is offered as an extra benefit and does not affect your statutory right as a consumer.

CE EC Declaration of Conformity
We Declare that Type CV100
Fan conforms to 89/336/EEC
73/23/EEC

For further information contact the Greenwood Customer Services Department

Greenwood Air Management Ltd
Greenwood House, Brookside Avenue, Rustington, West Sussex BN16 3LF
Tel: 01903 771021 Fax: 01903 782398

Email: info@greenwood.co.uk www.greenwood.co.uk

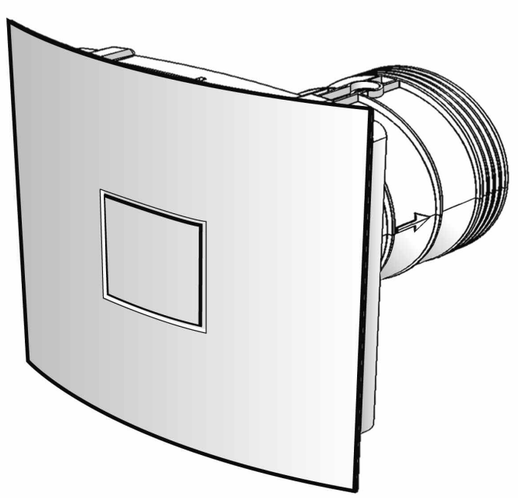
05.10.753 GW64100140G Issue 3 July 2008

INSTALLATION INSTRUCTIONS 230V / SELV MODELS

Unity CV100

Constant Volume Single Point Extract Fan

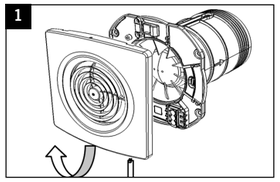
Greenwoods Unity CV100 is a continuously running extract fan, designed to offer a simplistic approach to the Building Regulations and an energy efficient domestic ventilation solution. The design concept revolves around 'one product', which has been designed to be flexible in application and to meet the performance requirements of all wet rooms within a dwelling (to be configured during installation). Offering varying installations including through wall, ceiling and inline options, the Unity fan is also silent in operation and is supplied with an aesthetically styled internal grille.



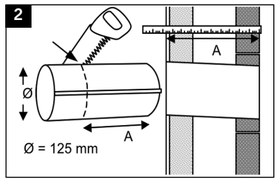
READ ALL INSTRUCTIONS BEFORE COMMENCING INSTALLATIONS

- Observe appropriate safety precautions if working on steps or ladders. Wear eye protection when breaking out wall or window materials etc.
- The fans should not be sited where it would be subject to a direct source of heat in excess of 40ºC.
- When installing wall mounted fans, ensure that there are no buried cables or pipes in the way. It is recommended that this fan is mounted 1.8m above floor level.
- A clearance of 75mm to be allowed on at least one side of the fan for the removal of the internal grille.

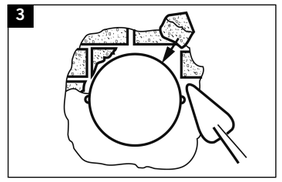
Wall Mounting (Using ED wall duct and EG external grille)



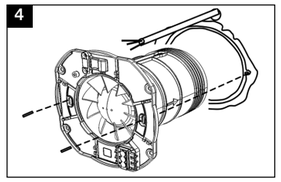
Loosen the two retaining screws under grille (Do not remove screws), then pull bottom of grille while lifting.



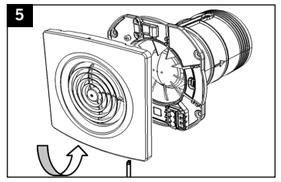
Cut the duct to width of the plasterboard or tiled wall with slight fall to exterior. (Make provisions for cable).



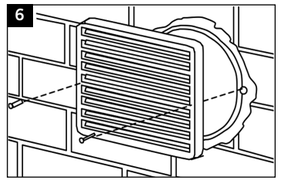
Fill in any gaps with mortar or foam and make good internal and external walls. Make sure that ducting remains circular and screw holes are horizontal.



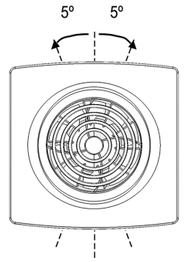
Using No 8 screws, secure fan body to ducting. The electrical cable passes through as appropriate. Wire fan (See wiring details).



Replace internal grille by hooking the top of grille onto main body then push bottom of grille home. Gently tighten retaining screws at bottom of grille, ensuring no wires are trapped.



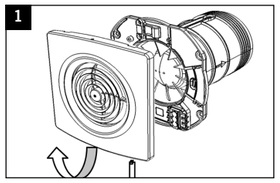
Screw the protective wall grille over the external duct opening.



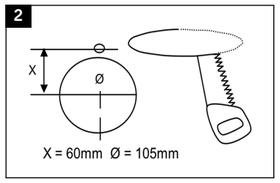
Fine Adjustments

If after installation the fan is not level, the front grille can be turned upto 5º clockwise or 5º anti-clockwise to correct this.

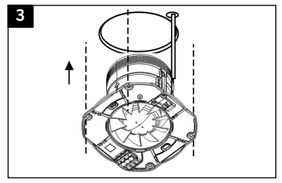
Ceiling Mounting



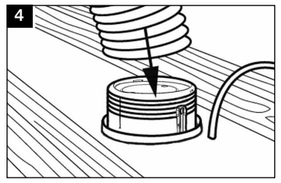
Loosen the two retaining screws under grille (Do not remove screws), then pull bottom of grille while lifting.



Cut an opening through the ceiling for the fan and electrical cable.



Secure to ceiling using suitable fixing method then Wire fan (See wiring details).



Place flexible ducting over the spigot of the fan. Fit ducting to spigot using ties. Replace front grille.

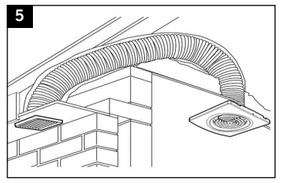


Diagram depicting typical installation ducted through roof soffit.

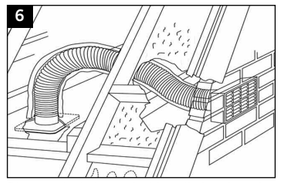
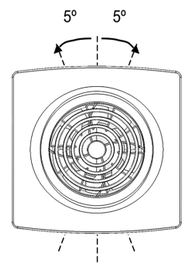


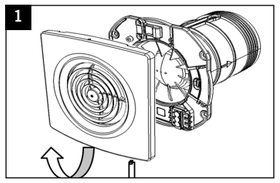
Diagram depicting typical installation ducted through roof to external wall.



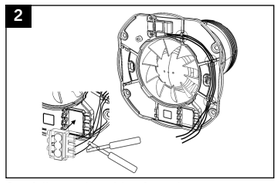
Fine Adjustments

If after installation the fan is not level, the front grille can be turned upto 5º clockwise or 5º anti-clockwise to correct this.

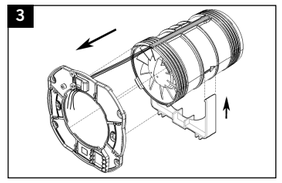
In Line Mounting



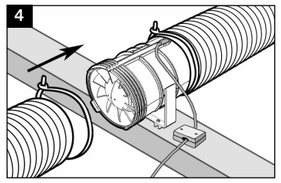
Loosen the two retaining screws under grille (Do not remove screws), then pull bottom of grille while lifting. Discard the grille.



Carefully cut the wiring from the connector block on the backplate.



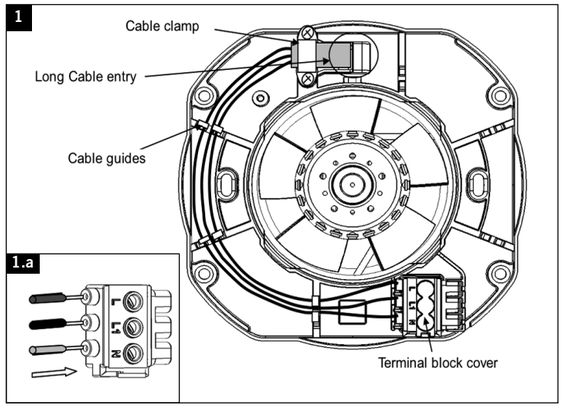
Unclip the backplate from the fan body. Secure the fan body to a suitable roof beam or similar using the mounting foot supplied. The electrical cable can then be wired using a suitable shrouded connector block as appropriate. Wire fan (See wiring diagrams). Provide appropriate mechanically protected sleeve to flying lead, to comply with current IEE wiring regulations.

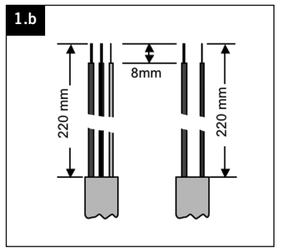


Place flexible ducting over the spigot of both ends of the fan body. Fit ducting to spigot using ties. 100mm ducting and grilles are recommended for in line mounting.

Wiring Details

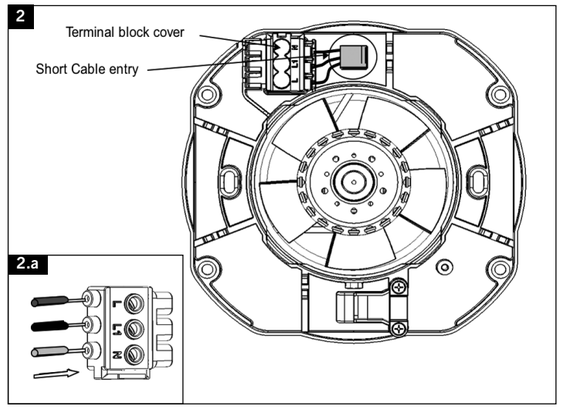
Installation Method 1

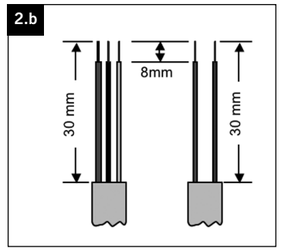




- Strip cable to correct lengths as shown in diagram 1.b.
- Insert cable through cable entry point, then clamp cable using the cable clamp.
- Use the cable guides to retain the cable wires, then push the wires into the terminal block until cable comes to a dead stop. (Diagram 1.a)
- Peel open the terminal cover, so that terminal screws are visible, then tighten screws and replace terminal cover, making sure that cover is fully replaced.

Installation Method 2





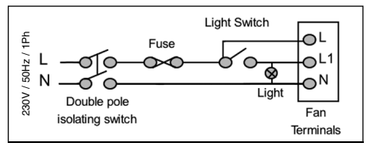
- Strip cable to correct lengths as shown in diagram 2.b.
- Break open cable entry point then insert cable.
- Push the wires into the terminal block until cable comes to a dead stop. (Diagram 2.a)
- Peel open the terminal cover, so that terminal screws are visible, then tighten screws and replace terminal cover, making sure that cover is fully replaced.

230V Wiring Diagrams

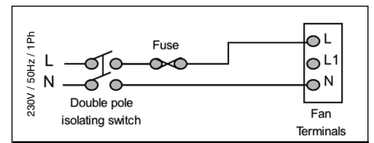
The electrical connections must be carried out by a qualified electrician in accordance with IEE or local regulations.

WARNING:
Isolate electricity supply before starting work.

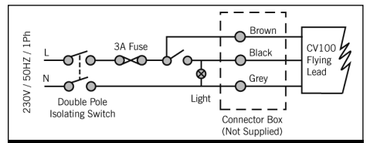
- The fans are double insulated and do not require an earth connection.
- The fans must be connected to a double pole isolating switch having contact separation of at least 3 mm.
- When supplied from a 5 amp lighting circuit no local fuse is required.



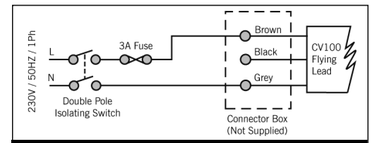
With Boost



Without Boost



In Line Mounting With Boost



In Line Mounting Without Boost

Fan Specifications

230V Model:

220-240V / 50Hz / 1Ph IP24

5.5 Watts max. 5, 10 & 15 L/S airflow performance

Cable Sizes:

Fixed flat wiring 2 core 1mm², 3 core 1/1.5mm²

SELV Model:

220-240V / 50Hz / 1Ph IP24

24V DC Between controller and fan

5.5 Watts max. 5, 10 & 15 L/S airflow performance

Cable Sizes:

Fixed flat wiring 2 core 1mm², 3 core 1/1.5mm²