

# "Microbox"

## DC Models

### MBOX 125/2DC

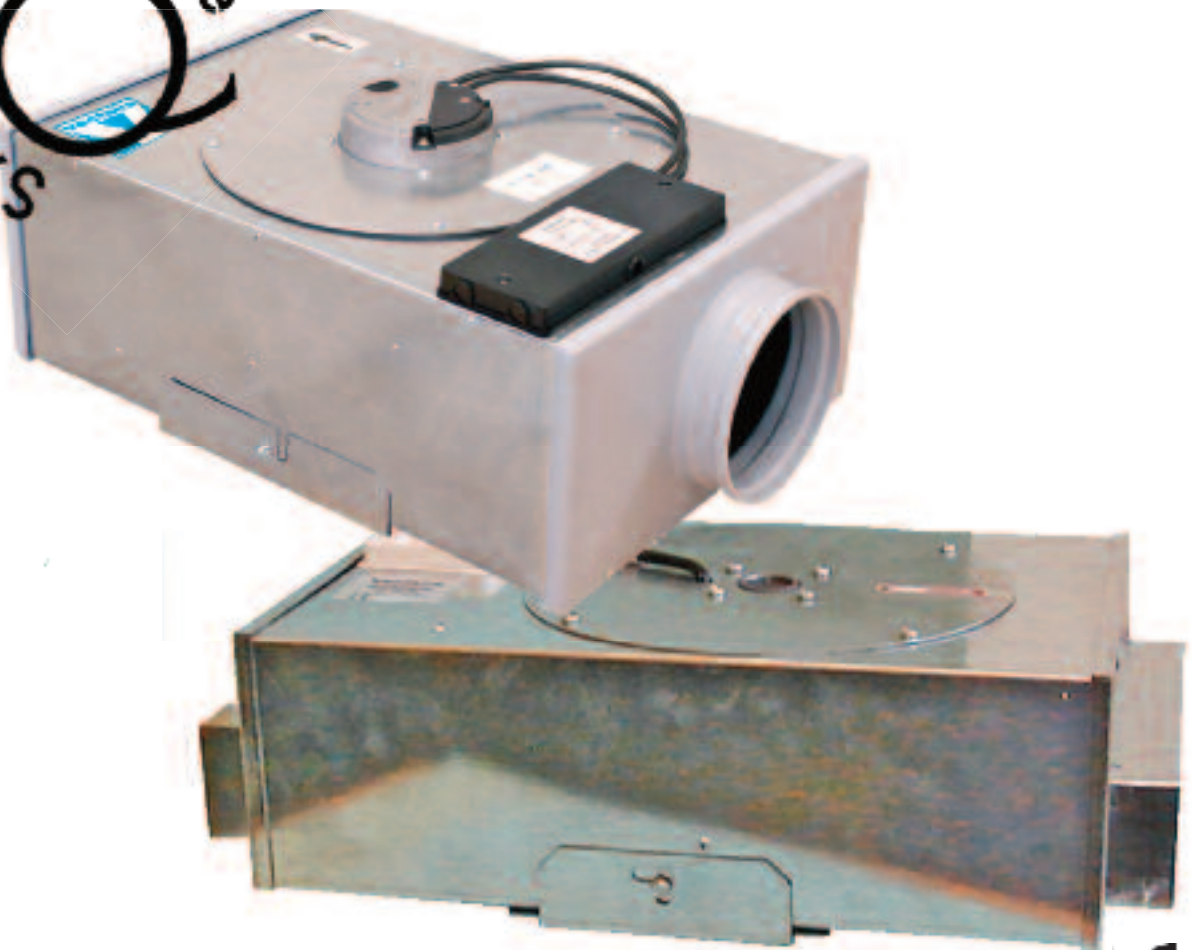
### MBOX 125/2DC204



**Continuous Mechanical Extract Ventilation  
Unit with Low Energy DC Motor - for  
domestic and commercial use**

**Installation, Operating and Maintenance  
Instructions**

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## "MICROBOX" - CONTINUOUS MECHANICAL EXTRACT UNIT INSTALLATION AND OPERATING INSTRUCTIONS

PLEASE READ THE FOLLOWING INSTRUCTIONS VERY CAREFULLY BEFORE USING THE PRODUCT. THE MANUFACTURER WILL NOT BE HELD RESPONSIBLE AND DECLINES ANY AND ALL LIABILITY FOR DAMAGE CAUSED TO PERSONS OR PROPERTY DUE TO IMPROPER USE WITH REFERENCE TO THE PRECAUTIONS OUTLINED IN THIS MANUAL.

**THIS MANUAL MUST ALWAYS BE READILY AVAILABLE.**

**MBOX125/2DC:** 5"/125mm spigot, for dwellings up to 270m<sup>2</sup>, max capacity 404m<sup>3</sup>/hr

**MBOX125/2DC204:** 204 x 60mm spigot, for dwellings up to 270m<sup>2</sup>, max capacity 404m<sup>3</sup>/hr



**ATTENTION :** This symbol indicates that care must be taken in installing this product in order to avoid (potentially lethal) injury both to installer and user. This instruction **MUST** be followed for installation.

1. Do not use this product for any purpose other than that for which it was designed and as shown in this leaflet.
2. Remove all packaging and check that your fan has not been damaged in transit. If in doubt, contact your supplier.
3. Do not leave packaging within the reach of children or unskilled people. Dispose of hazardous waste (poly styrene, plastic, polypropylene, etc.) responsibly.
4. If the product is dropped or badly knocked, contact your supplier, dealer or manufacturer to ensure that it is operating properly.
5. Using any electrical equipment requires compliance with basic safety rules:
  - the product must not come into contact with liquid of any sort and should not be touched with wet or damp parts of the body (eg hands, feet)
  - the product must not be operated by children or other unskilled people.
6. The product should only be connected to the mains electricity supply or electrical outlet if:
  - your electrical voltage and frequency correspond to those shown on the rating label.
  - the capacity of your electricity supply is sufficiently powerful to operate the product at its maximum power
 If this is not the case, contact professionally qualified personnel.
7. Before carrying out any maintenance or cleaning operation, the product must be switched off and disconnected from the main power supply..
8. If a fault, malfunction or anomaly of any type occurs, the product should be made inoperative (by turning off the switch and by disconnecting it from the mains electricity supply) and qualified personnel contacted immediately. Always request original spare parts to carry out any repairs.
9. If the product needs to be removed, turn off the main network circuit-breaker and then disconnect the appliance from that network.
10. The unit should be installed in a safe location as far away as possible from children and/or unskilled people.
11. The electricity system to which the product is connected must comply with the current standards.
12. **In order to comply with Construction (Design & Management) Regulations, sufficient access for safe maintenance or removal following installation, MUST be provided for this product.**



**WARNING :** This symbol indicates that care must be taken to avoid damaging your product when following these instructions

1. This product is professionally manufactured and complies with the current standards regarding electrical equipment
2. This product conforms with the EEC directive EMC 89/336 concerning the suppression of radio interference and electromagnetic compatibility.
3. This product must not be used in an ambient temperature greater than 40 °C (104 °F).
4. Do not leave the product exposed to the weather (rain, sun, snow, etc.).
5. Do not place the unit or any part of it in water or liquids.
6. When cleaning or performing routine maintenance, check the condition of the appliance.
7. To avoid the risk of fire, do not use the product in the presence of inflammable substances or vapours such as alcohol, insecticides, gasoline, etc.
8. The air or fumes being extracted must be clean and free from greasy particles, soot, chemicals and corrosive agents, inflammable or explosive mixes (if these substances are present, contact Vectaire for information on more suitable products).
9. The unit must be installed by professionally qualified personnel.



10. The product must be connected to the electricity supply by means of a triple-pole isolating switch with a minimum contact opening distance greater than 3 mm.
11. To ensure optimum operation, do not block the air intake and exit vents.
12. The area where the device is located must be adequately ventilated to ensure correct operation (UNI CIG 7129).
13. If the fan is extracting from a room containing a fuel burning appliance, the installer must ensure that air replacement is adequate both for the fan and the fuel burning appliance.
14. Any ducting used must be free from blockages
15. Your fan must not be exhausted into a duct which is already used for any other purpose (see Approved Document F1 2006 for guidance)

## OPERATION

1. The **Microbox** is suitable for ceiling or wall installation.
2. If one of the spigots is not connected to ducting a safety grille **MUST** be fitted to that spigot, so that it is impossible for any moving part to be touched.
3. This fan runs continuously at a preset trickle speed and has an independently switched boost speed. The trickle & boost speeds are selectable during the installation by adjusting the trimmers in the controller (see wiring diagrams).

## Electrical Connection

**WARNING: these appliances must be earthed and all wiring must conform to current IEE Regulations and all applicable standards and Building Regulations.**

- The unit is supplied with a mains rated 4 core flexible cord (black, brown, grey and green/yellow)
- The unit is suitable for 230V, 50Hz Single phase supply fused at 3A.
- A fused spur box, or triple pole switch having a minimum contact separation of 3mm must be used for isolation.

**Note** : if the unit is connected to the lighting circuit, which is fed via a 6 amp MCB, then no local fusing is necessary. A local isolating switch must still be used.

- Boost controls must not be located within 1 metre of a cooker or where they may be affected by excessive heat or moisture
- Boost controls should be clearly identified and conveniently located.
- The boost speed can be triggered by a switched live connection from a variety of external devices including:
  - PIRFF (passive infra red)\*
  - DRH240 (dynamic remote humidistat)\*
  - THM (thermostat)\*
  - a light switch (if more than one light switch is used, **each one must be a double pole switch**)
  - a remote switch/pull cord

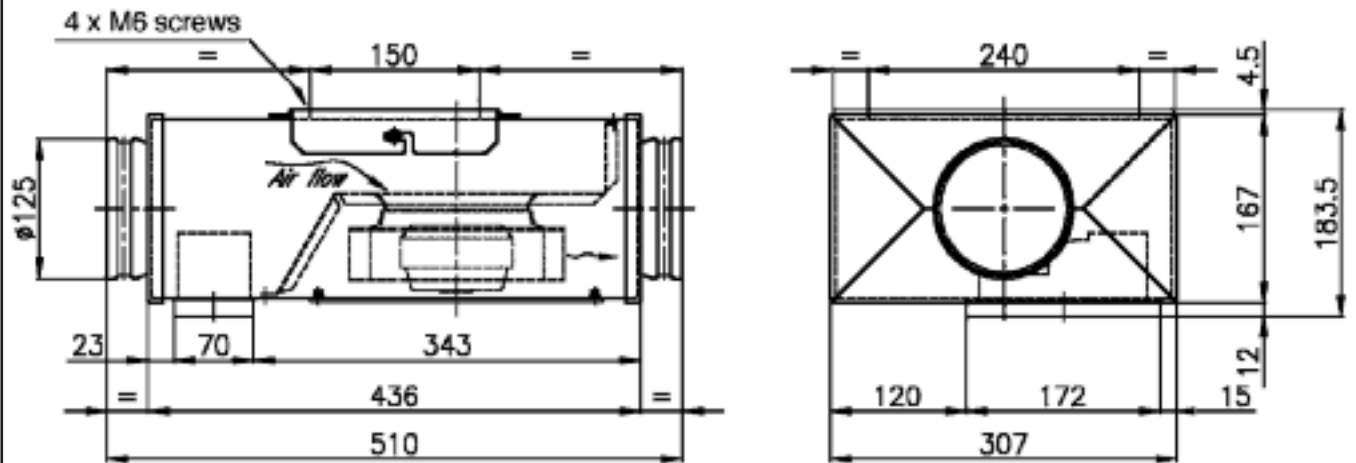
(\*PIRFF, DRH240 and THM may have an integral over-run timer which controls the length of time that the fan will continue to operate at its boost speed after the boost has been switched off)



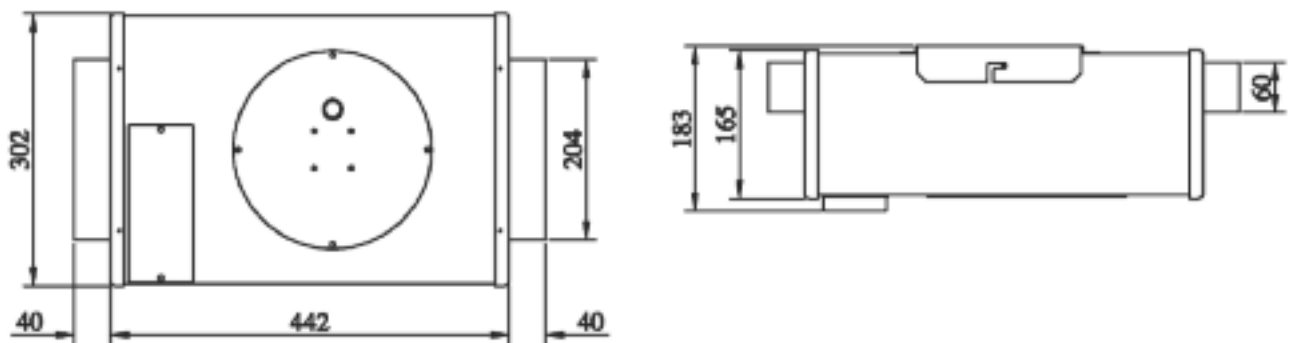
## CLEANING AND MAINTENANCE

1. **Before carrying out any maintenance or cleaning operations the unit MUST be isolated from the electrical supply.**
2. CLEANING AND MAINTENANCE SHOULD BE CARRIED OUT BY A QUALIFIED PERSON.
3. Before attempting to remove the motor impeller assembly disconnect the cable inside the control box.
4. Remove the screws (Fig.8) and lift out the motor/fan assembly.
5. Clean the motor/fan assembly either with a dry brush or a dry cloth.
6. Electrical parts **cannot** be cleaned.
7. Reassemble in the reverse order to above.

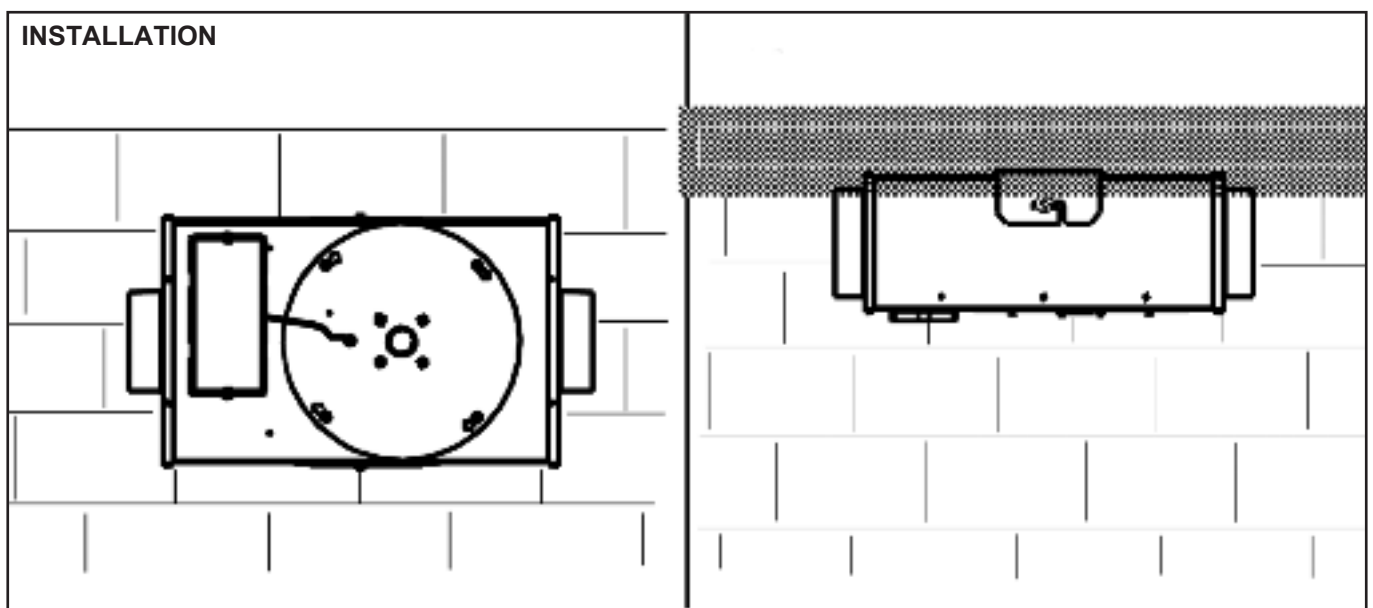
### DIMENSIONS - MBOX125/2DC

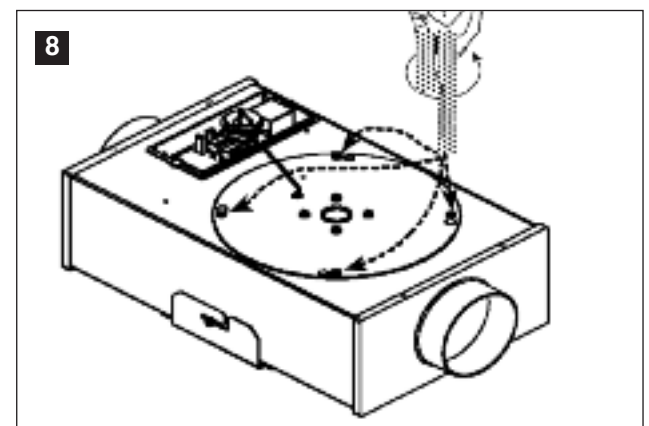
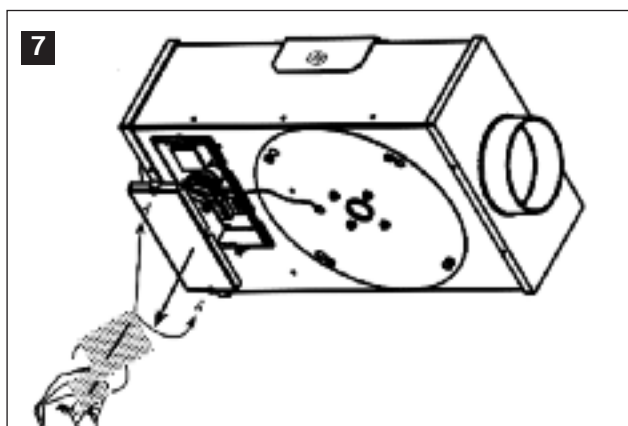
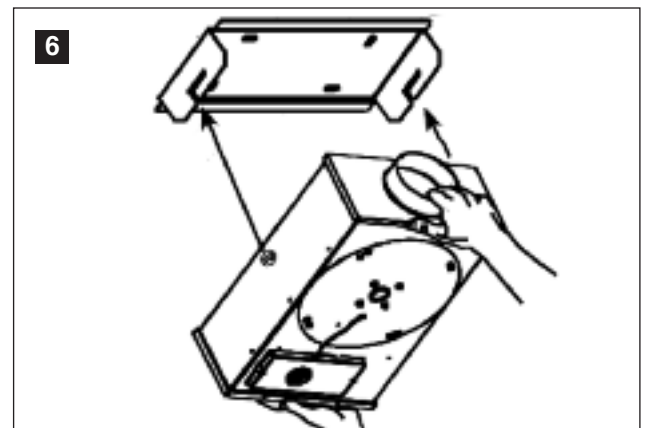
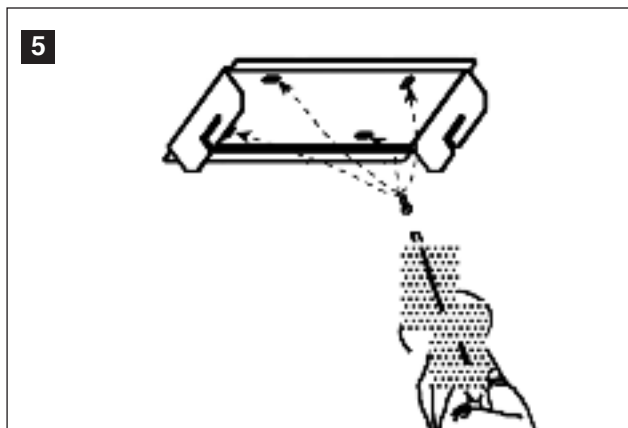
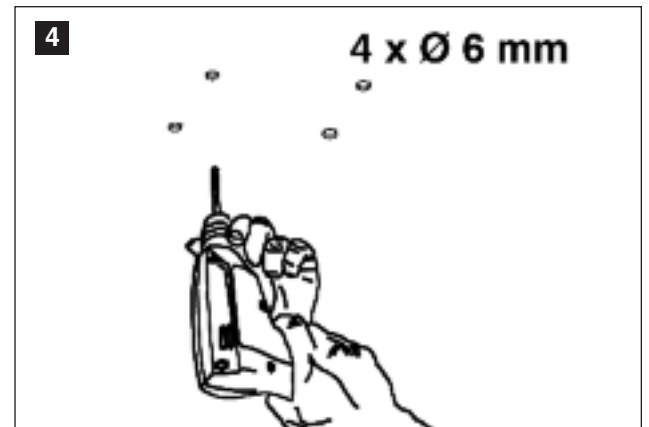
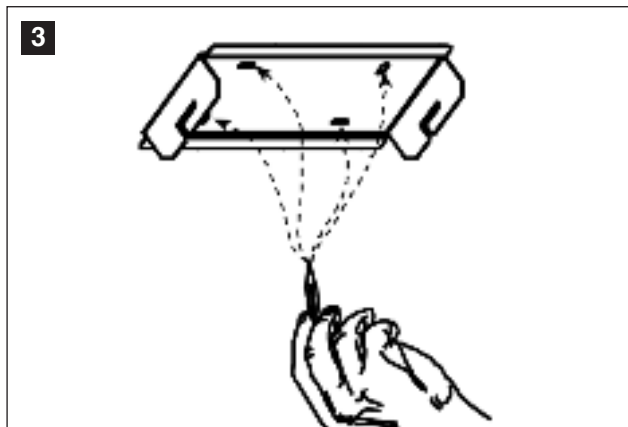
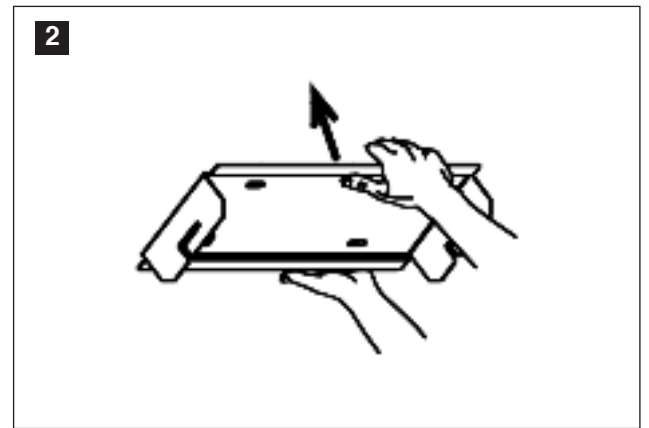
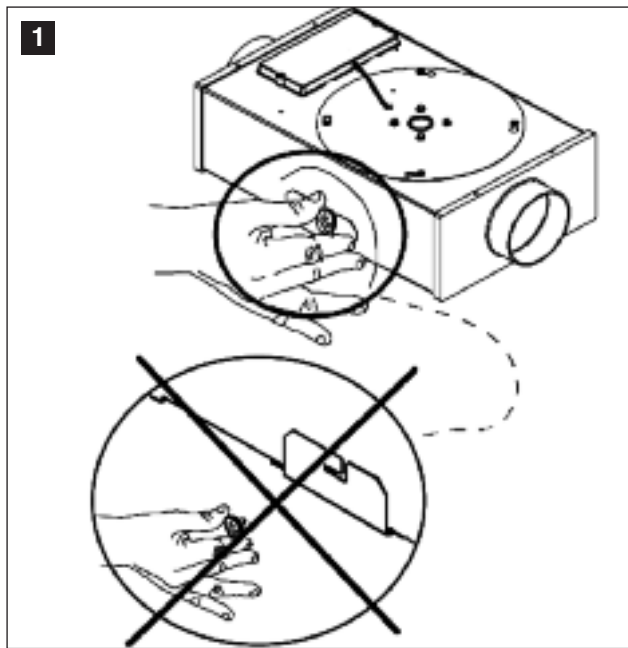


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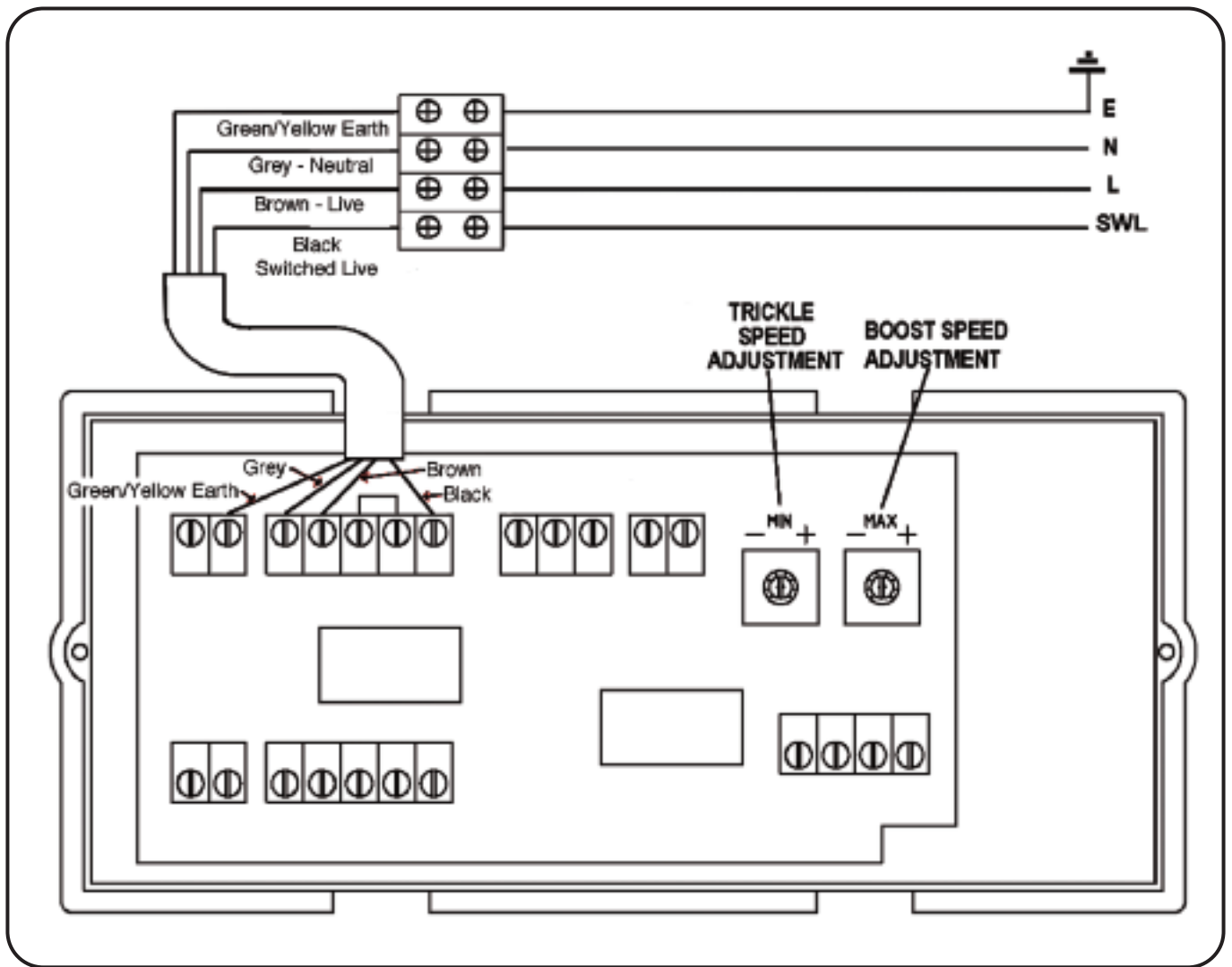


### INSTALLATION





### WIRING and COMMISSIONING DIAGRAMS



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