ELTA TRADE

CE UK CA

MORI WMF

Weatherproof Subfloor Ventilation Fan

(Extract or Supply Version)

INSTALLATION, MAINTENANCE & USER GUIDE

Read this manual carefully before using the product and keep it in a safe place for reference. This product was constructed up to standard and in compliance with regulations relating to electrical equipment and must be installed by technically qualified personnel. The manufacturer assumes no responsibility for damage to persons or property resulting from failure to observe the regulations contained in this booklet.

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PRECAUTIONS FOR INSTALLATION, USE & MAINTENANCE

01. The device should not be used for applications other than those specified in this manual.

02. After removing the product from its packaging, verify its condition. In case of doubt, contact a qualified technician. Do not leave packaging within the reach of small children or people with disabilities.

03. Do not touch the appliance with wet or damp hands/feet.

04. 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. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

05. Do not use the product in the presence of flammable vapours, such as alcohol, insecticides, gasoline, etc.

06. If any abnormalities in operation are detected, disconnect the device from the mains supply and contact a qualified technician immediately. Use original spare parts only for repairs.

07. The electrical system to which the device is connected must comply with regulations.

08. Before connecting the product to the power supply or the power outlet, ensure that:
- the data plate (voltage and frequency) correspond to those of the electrical mains
- the electrical power supply/socket is adequate for maximum device power. If not, contact a qualified technician.

09. The device should not be used as an activator for water heaters, stoves, etc., nor should it discharge into hot air/fume vent ducts deriving from any type of combustion unit. It must expel air outside via its own special duct.

10. Operating temperature: -20°C up to +40°C.

11. The device is designed to extract or supply (depending on model) clean air only, i.e. without grease, soot, chemical or corrosive agents, or flammable or explosive mixtures.

12. Do not immerse the device or its parts in water or other liquids.

13. Turn off the main switch whenever a malfunction is detected or when cleaning.

14. For installation an omnipolar switch should be incorporated in the fixed wiring, in accordance with the wiring regulations, to provide a full disconnection under over-voltage category III conditions (contact opening distance equal to or greater than 3mm).

15. Do not obstruct the fan or grille to ensure optimum air passage.

16. Ensure adequate air return/discharge into/ from the room in compliance with existing regulations in order to ensure proper device operation.

17. If the environment in which the product is installed also houses a fuel-operating device (water heater, methane stove etc., that is not a “sealed chamber” type), it is essential to ensure adequate air intake, to ensure good combustion and proper equipment operation.

18. Install the product so that the impeller is not accessible from the air outlet side as verified by contact with the Test Finger (test probe “B” of the norm EN61032) in compliance with the current safety regulations.

19. The fan should be RCD (Residual Circuit Device) protected.

INTRODUCTION

The MORI WMF is a weatherproof fan unit for use when an externally mountable, continuously running ventilation fan is required e.g. to provide sub-floor ventilation.

The integral controls provided as standard allow for the fan to be set at the installation stage to operate at a continuous trickle speed/airflow. When connected to a boost switch, on closure of the boost switch, the fan will run at a determined speed set internally within the fan at set up; when the boost switch is open the fan will revert to trickle speed.

TECHNICAL SPECIFICATION

- External removable cowl/louvre material: long lasting galvanised steel.
- External permanently fixed wall baseplate material: long lasting galvanised steel.
- Inner ventilation unit material: Thermoplastic Black with fireproofing grade UL94V-0.
- Main fan assembly easily electrically and mechanically disconnected and withdrawn to allow for cleaning and maintenance.
- High efficiency aerodynamic fan to optimise quietness and efficiency.
- Single phase EC Brushless motor with integral thermal protection.
- Motor mounted on high quality ball bearings.
- Trickle/ Boost settings.
- Power supply 220V to 240V~ 50Hz

PERFORMANCE DATA (EXTRACT VERSION)

Operation Temperature Range of -20°C to 40°C	**Min Speed**	**Trickle Speed**	**Boost Speed**
Extract Max l/s	4	12	17
Extract Max Power W	1.5	5	7
dB(A) @ 3 metres	<10	<35	<43
Extract Only Annual Electrical Running Cost in £ @ 20 pence/kWh	2.63	8.76	12.26

PERFORMANCE DATA (SUPPLY VERSION)

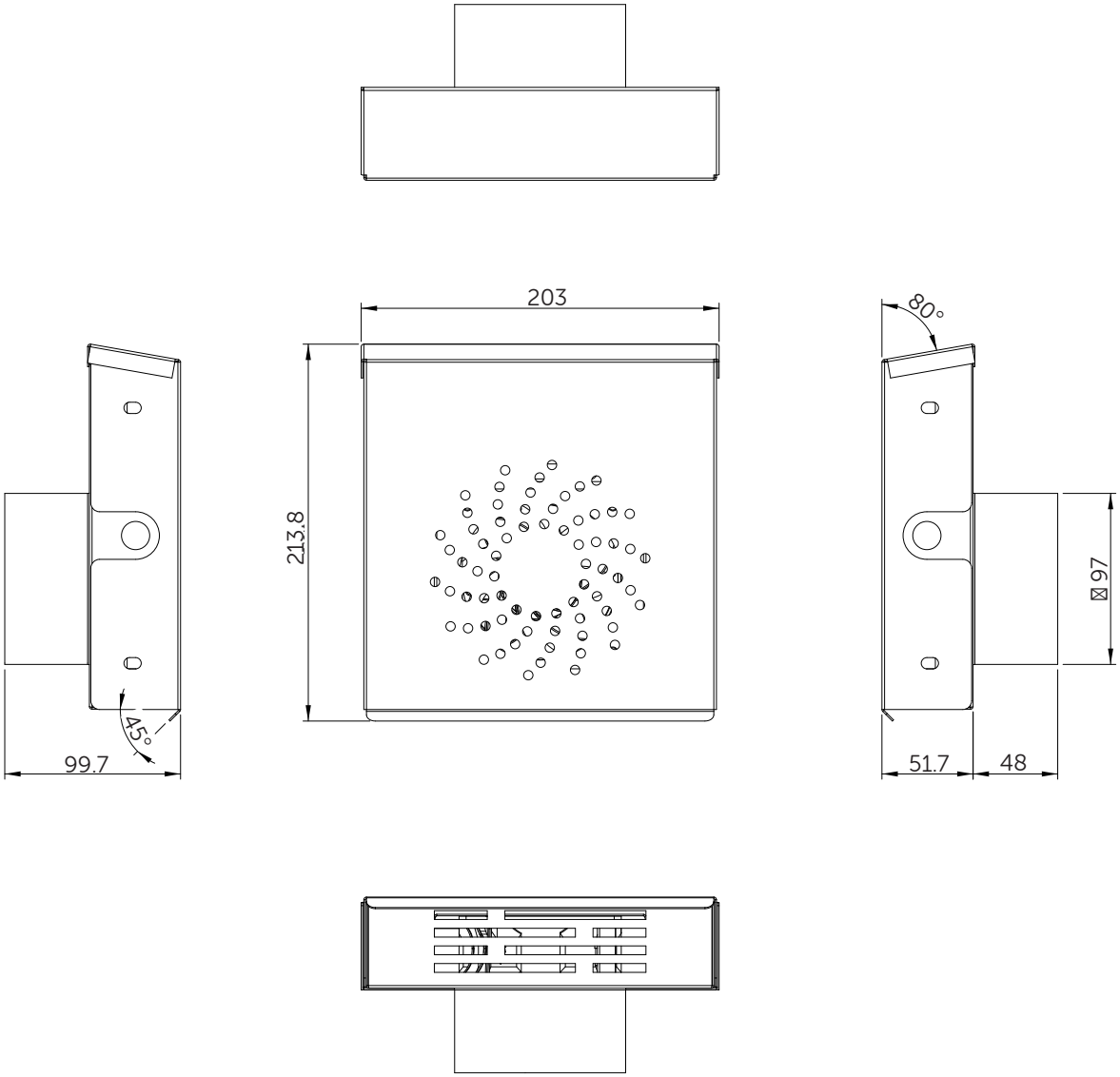
Operation Temperature Range of -20°C to 40°C	**Min Speed**	**Trickle Speed**	**Boost Speed**
Supply Max l/s	4	12	17
Supply Max Power W	1.5	5	7
dB(A) @ 3 metres	<10	<35	<43
Supply Only Annual Electrical Running Cost in £ @ 20 pence/kWh	2.63	8.76	12.26

TRANSPORT AND STORAGE

The appliance is delivered in one box.
The appliance should be stored and transported in such a way that it is protected against physical damage that can harm spigots, casing, control panel etc.

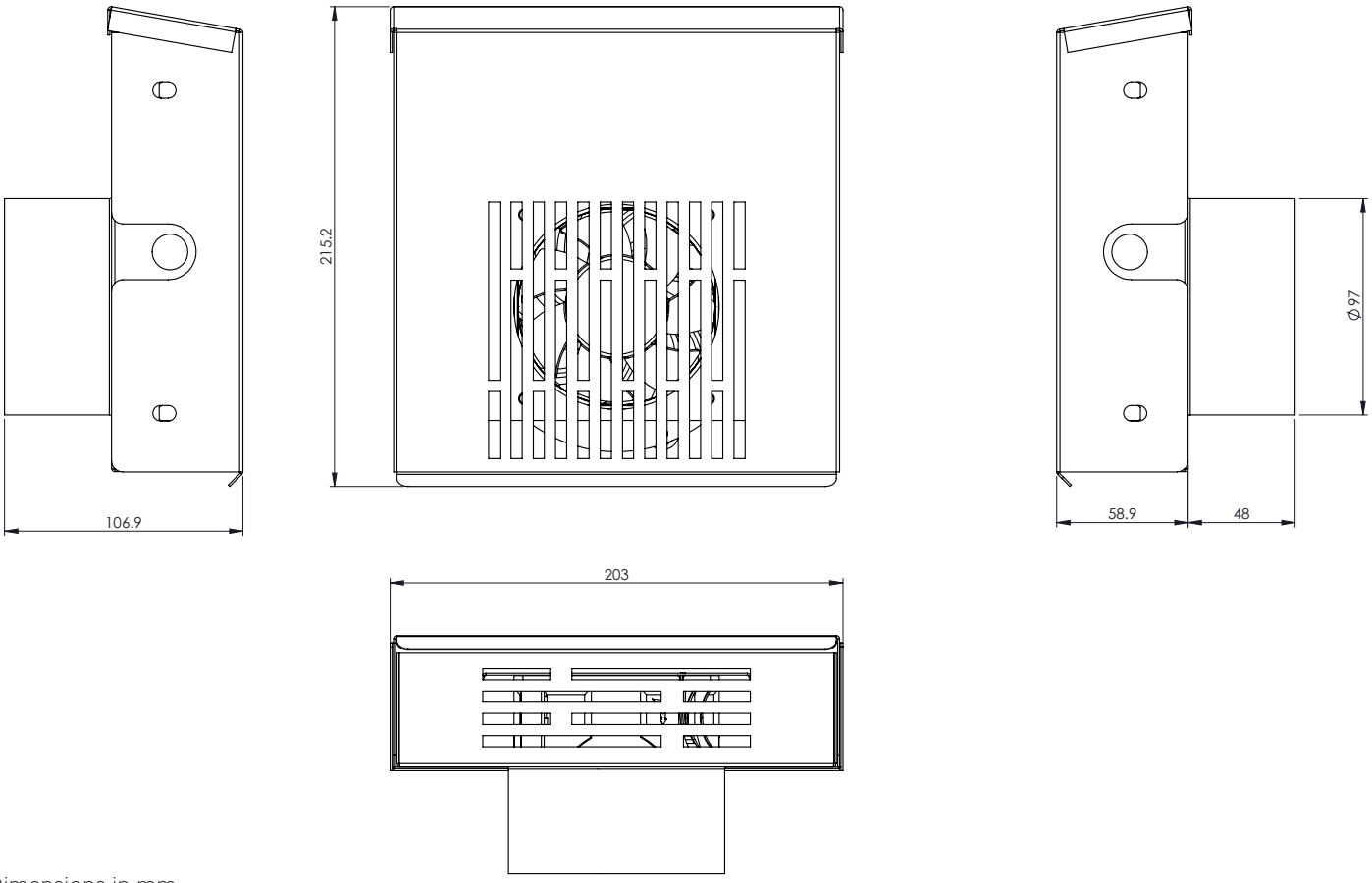
DIMENSIONS

EXTRACT VERSION



Dimensions in mm.

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Dimensions in mm.

INSTALLATION

WARNING - Make sure that specific warnings and cautions in 2. “Precautions For Installation, Use & Maintenance” are carefully read, understood and applied.

This section describes how to install the unit correctly. The unit must be installed according to these instructions.

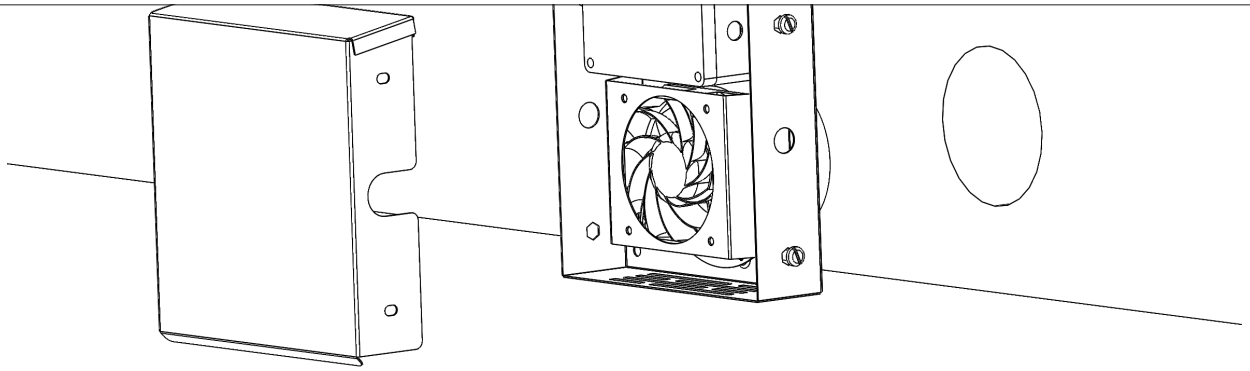
Make sure that enough space is left around the unit to allow easy maintenance.

UNPACKING
Verify that the unit delivered is according to your order before starting the installation. Any discrepancies from the ordered equipment must be reported to the supplier.

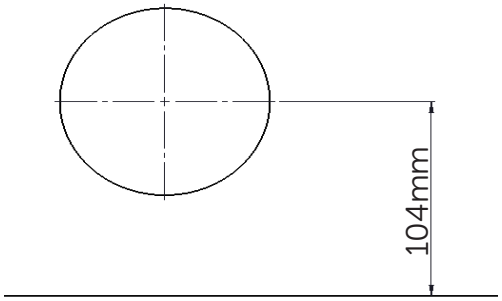
WHERE TO INSTALL

This unit is designed for external installation.

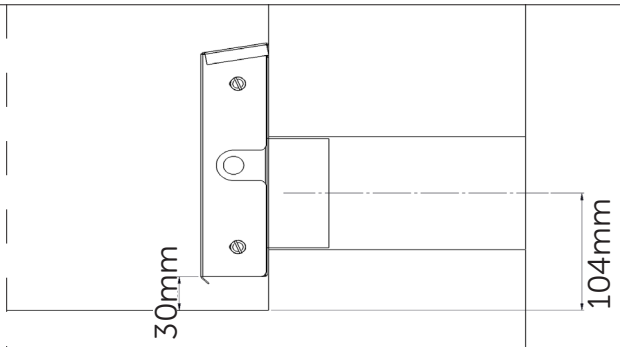
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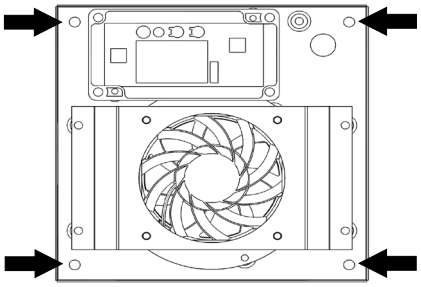
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Cut a 100mm or 4 inch hole through the wall into the subfloor area. The hole centre must be a minimum of 104mm above the ground to give clearance.

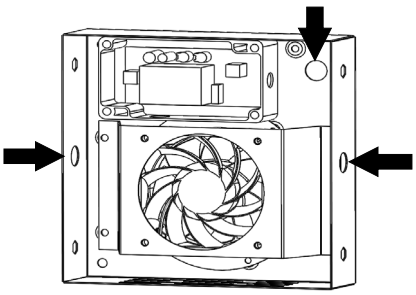


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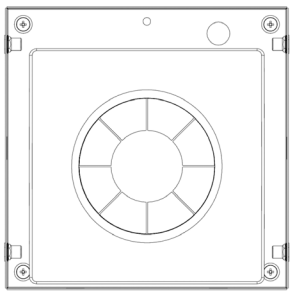
Mount the unit on the wall using the 4 corner holes. Ensuring the foam strip creates a seal with the wall. Silicone sealant can be used for added protection if needed.

4



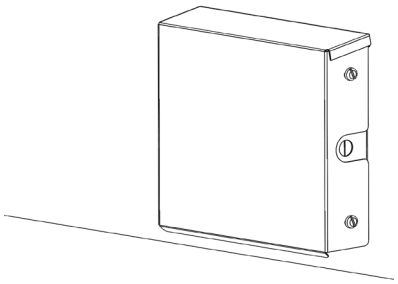
To route power to the unit there are 3 access points, one on either side of the unit and one on the back. If using the rear cable entry drill the hole and route the cable in the wall before mounting the unit.

5



Fan cover clips over fan unit.

6

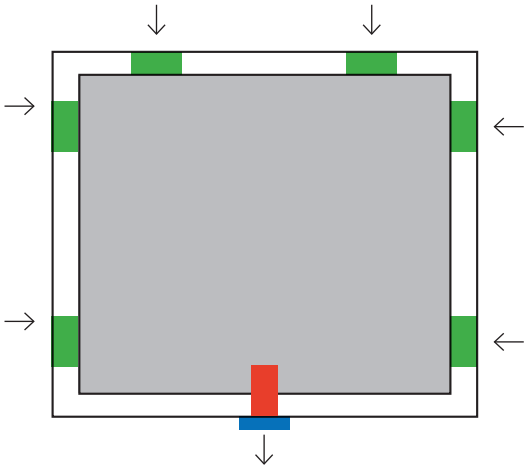


Once wired up replace the front cover using the 4 screws.

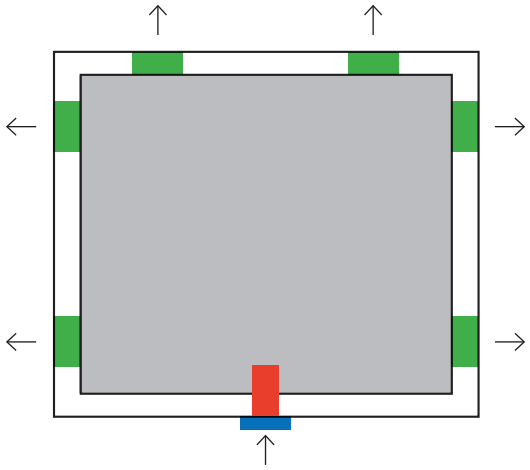
Images shown are representative only. Internal configurations may vary between extract and supply units, however installation remains the same.

VENTILATION LAYOUT GUIDANCE

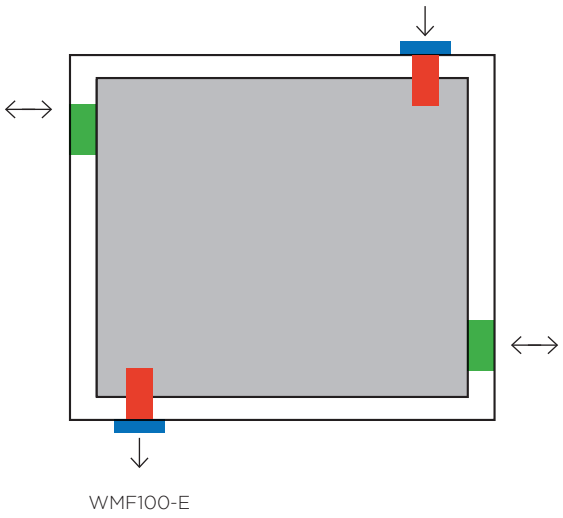
1. EXTRACT ONLY



2. SUPPLY ONLY



3. EXTRACT & SUPPLY



This diagram is conceptual only. It should not be considered a design for any particular sub-floor ventilation system. Design responsibility rests solely with the system designer.

1. EXTRACT ONLY

To create a controlled airflow path across the subfloor void, drawing fresh air in through perimeter openings and removing moisture-laden air efficiently, while avoiding stagnant zones and short-circuiting.

RECOMMENDED LAYOUT:

Install the WMF100-E centrally on one side of the subfloor, or at a corner position, where it can draw air across the greatest possible distance.

Maintain multiple air inlets (airbricks or vents) evenly distributed around the remaining perimeter to act as passive supply points.

Where possible, position air inlets on opposing and adjacent walls to promote cross-ventilation towards the extract point.

Avoid positioning the extract fan directly adjacent to a single dominant air inlet, as this may cause short-circuiting and leave remote areas under-ventilated.

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ADDITIONAL GUIDANCE:
If the subfloor is divided by sleeper walls, ensure adequate transfer openings are present so extracted air is drawn from all compartments.
Extract-only systems operate under negative pressure; uncontrolled leakage paths will become supply points and should be considered in the layout.

2. SUPPLY ONLY
To introduce fresh air into the subfloor void in a controlled manner, displacing stale or moisture-laden air and encouraging its escape via perimeter openings, without relying on natural wind-driven airflow.

RECOMMENDED LAYOUT:
Install the WMF100-S on one side or corner of the subfloor, discharging air across the longest available airflow path.
Ensure there are multiple free exhaust paths (airbricks or vents) located on the opposite and adjacent sides of the subfloor to allow air to exit.
Distribute discharge air so that it sweeps across the full footprint of the subfloor rather than concentrating in one area.

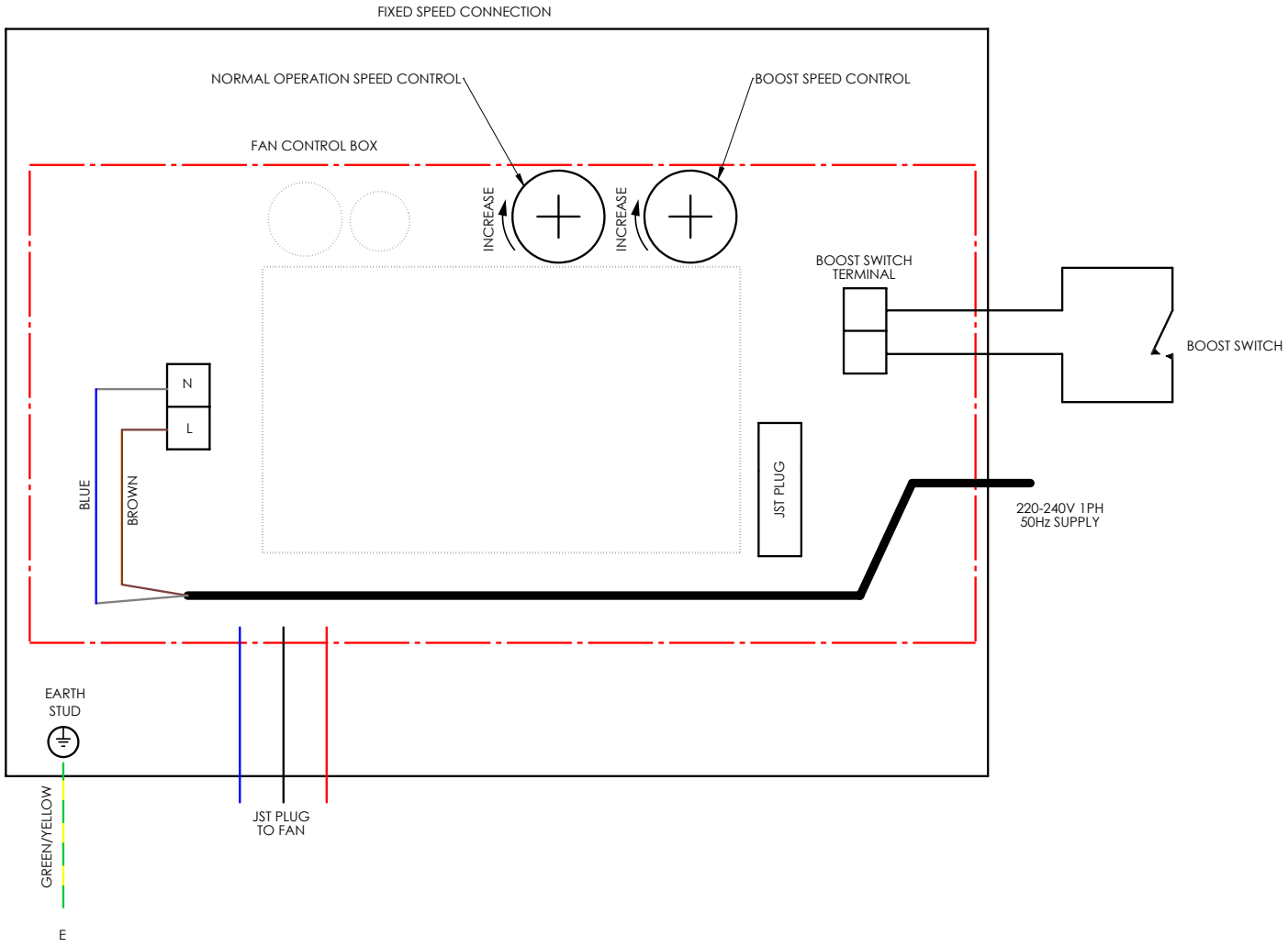
ADDITIONAL GUIDANCE:
Supply-only systems operate under positive pressure, forcing air out through perimeter openings and gaps.
Airbricks should remain open and unobstructed to prevent pressure build-up and ensure effective air displacement.
Where sleeper walls are present, provide transfer openings to allow supplied air to reach all compartments.

3. BEST OPTION – SUPPLY & EXTRACT
To provide a controlled and predictable airflow path across the subfloor void by mechanically introducing and removing air by using both WMF100-E and WMF100-S, ensuring consistent ventilation performance independent of natural air movement, wind, or external pressure conditions.

RECOMMENDED LAYOUT:
Install the WMF100-S on one side or corner of the subfloor.
Install the WMF100-E on the opposite side or diagonally opposite corner, maximising separation distance between supply and extract.
Arrange fans so air is driven across the full footprint of the subfloor void rather than circulating locally.
Where practical, supply and extract points should align with the longest airflow path available within the void.

ADDITIONAL GUIDANCE:
Avoid positioning supply and extract fans on the same wall or in close proximity, as this may cause short-circuiting and reduced coverage.
If the subfloor is divided by sleeper walls or compartments, provide either:
dedicated supply and extract points to each compartment, or adequately sized transfer openings to allow air to pass freely between compartments.
Existing airbricks may be retained as pressure relief openings, provided they do not compromise airflow direction.

ELECTRICAL WIRING & OPERATION



Setting continuous low speed - The unit is factory set to offer suggested running speed, indicated by the marker on the PCB next to the low speed potentiometer “Low” on PCB, anti-clockwise rotation will reduce the low speed.

Setting Boost speed - The unit is factory set to offer full speed in boost mode, this can be adjusted by rotating potentiometer “Boost” anti-clockwise.

MAINTENANCE AND SERVICE

WARNING - Make sure that specific warnings and cautions in 2. “Precautions For Installation, Use & Maintenance” are carefully read, understood and applied.

Maintenance can be carried out by the user.
Service must be performed only by an authorised installer and in accordance with local rules and regulations.

Please refer to the diagrams on page 5.

The following maintenance regime should be carried out at intervals not exceeding 6 months:

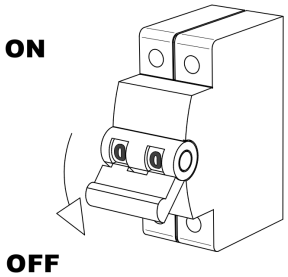
Make sure that the unit is electronically isolated before removing the weatherproof front cover/grille.

Remove the weatherproof front cover/grille and make sure it is clean and clear of all dirt, dust and debris that may restrict airflow.

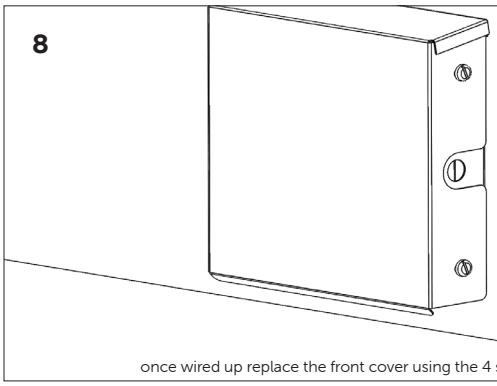
Carefully remove any material that may have entered the unit and carefully use a soft brush to clear any dirt, dust and debris from the front of the fan.

On completion of maintenance, parts should be put back together in the reverse to how they were removed. The electrical power supply to the unit should only be switched back on when the complete unit has been re-assembled.

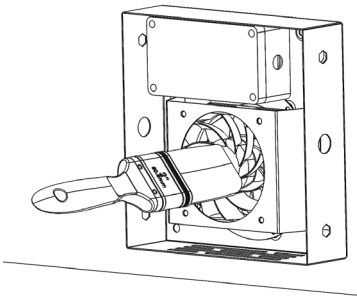
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9



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NOTES

NOTES

SPARE PARTS

Product Code	Description
ET-050001/A	MORI WMF100-E Complete Unit
ET-050002/A	MORI WMF100-S Complete Unit
ET-050001/A-MW	Extract Version Front Cover/Grille and Base
ET-050002/A-MW	Supply Version Front Cover/ Grille and Base
149S-PCB-WMF2	Electrical Printed Circuit Board
166-PC-24-9238-56-2	Fan
061-B-SPIG-100	Outlet Spigot

WARRANTY

Our 5 year warranty is provided only to customers who purchased directly from us. If you purchased elsewhere then please contact them directly and they will let you know their warranty procedure. Our warranty covers repair or replacement of defective goods only. It does not cover any labour costs associated with defective product or component removal or installation, nor does it cover the cost of sending goods back to us for inspection. Our warranty is subject to storage, installation, commissioning, inspection and maintenance having been carried out in accordance with our Installation and Maintenance Instructions (supplied with each product) and which are also available to view, save or print from our website.

Scan the QR code or visit **www.eltatrade.co.uk/warranty** to view further warranty information.

DISPOSAL AND RECYCLING

Elta use components, when possible, that are suitable for recycling at the end of the product's life, components can be segregated as stated below and processed in accordance with local regulations. Metallic items can be segregated and recycled; Electrical and Electronic equipment such as motors, cables and control devices can be segregated for WEEE recycling; Cardboard, wood, packaging, and plastic components can be widely recycled. Items not listed should be segregated in accordance with local authority zero waste hierarchy recommendations.

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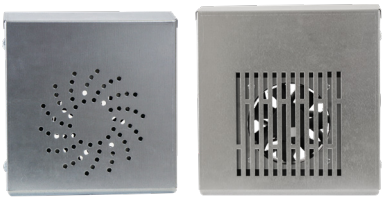
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MORI WMF 100 USER GUIDE



NOTE: The installer should go through the user guide with the home occupants and leave this with them for their reference.

WHAT IS A MORI WMF?

MORI WMF is a weatherproof subfloor ventilation fan.

HOW DOES IT WORK?

The fan is designed to work on a continuous basis by extracting stale, humid air in your home from and via the subfloor space or, if supply version fitted, buy supplying outdoor air into the subfloor space with humid air being removed naturally. How it will work will depend on how the installer has set the fan to operate. Please see “Fan operation” confirmed by Installer.

WHAT ARE THE BENEFITS?

Helping to provide humidity control, Radon gas control and air movement in hard to naturally ventilate, sub-floor spaces.

HOW DO I OPERATE THE FAN?

Your MORI WMF will have been set up by the Installer to operate in one of a number of ways. The Installer should indicate the method of “Fan operation” by ticking the appropriate box on the back of this sheet.

DOES IT NEED SERVICING?

The fan should be inspected regularly, and cleaning should be carried out as and when required but please note intervals between cleaning should not exceed 6 months.

HOW MUCH DOES IT COST TO RUN?

There are several variables that can determine the annual electrical running costs of MORI WMF, however, at typical electricity costs as of July 2025, you should expect the fan to cost between £8-£10 per year to run under normal conditions.

WHAT IF I THINK THERE IS A PROBLEM WITH THE FAN?

If you are a tenant, please report it to your landlord. If you are not, please contact the company you purchased the fan from.

IMPORTANT NOTE

MORW WMF fans are designed to run continuously. The power supply to the fan should only be disconnected if a fault is detected or suspected or when the fan is being maintained. Prolonged and/or repeated power interruption can create a health and safety risk and invalidate the fan warranty.

MORI WMF 100 USER GUIDE

FAN OPERATION

Installer to tick as appropriate.

- ☐ Extract unit
- ☐ Supply unit
- ☐ Combination of both, Extract and Supply

- ☐ The fan is fully automated to operate at the optimum speed and no adjustments are necessary.
- ☐ The fan is fully automated to operate at the optimum speed, a boost speed is available via a separate control switch.
- ☐ Other (Installer to specify here)

_____

_____

Scan the QR code for product and warranty information.

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