

Installation & Maintenance Manual

MORI dMEV II

De-Centralised Mechanical Extract Ventilation Fans



Please 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 in accordance with all regulatory requirements. The manufacturer assumes no responsibility for damage to persons or property resulting from failure to observe the instructions contained in this booklet.

PRECAUTIONS FOR INSTALLATION, USE & MAINTENANCE

- The device should not be used for applications other than those specified in this manual.
- 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.
- Do not touch the appliance with wet or damp hands/feet.
- 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.
- Do not use the product in the presence of flammable vapours, such as alcohol, insecticides, gasoline, etc.
- 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.
- The electrical system to which the device is connected must comply with regulations.
- 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.
- 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.
- Operating temperature: 0°C up to +50°C.
- The device is designed to extract typical household air only, i.e. without excessive grease, soot, chemical or corrosive agents, or flammable or explosive mixtures.
- Do not leave the device exposed to atmospheric agents (rain, sun, snow, etc.).
- Do not immerse the device or its parts in water or other liquids.
- Only turn off the power supply to the unit whenever a malfunction is detected or in the case of inspection, cleaning or maintenance. Prolonged and/or repeated power interruption to the unit (any period more than 72 hours) can create a health and safety.
- For installation an omnipolar switch should be incorporated in the fixed wiring, in accordance with the wiring regulations, to provide a full disconnection under overvoltage category III conditions (contact opening distance equal to or greater than 3mm).
- If the supply cord is damaged, it must be replaced by the manufacturer, its service
- Do not obstruct the fan or exhaust grille to ensure optimum air passage.
- Ensure adequate air return into the room in compliance with existing regulations in order to ensure proper device operation.
- 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.
- 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.

Ceiling Installation

- In order to guarantee the IPX4 degree of protection against moisture in case of ceiling installation, use the appropriate ceiling mount kit, which is included in the box. Use only the rear entry hole for supply cables. If there is a possibility of condensation along the air discharge duct, provide a drainage system to prevent condensation from discharging into the environment through the fan.

ATTENTION: do not mount the product on the ceiling without this kit.

Window Installation

- In case of window installation it is necessary to use the appropriate window kit, which is not included.
- Attention: do not mount the product on the window without this kit.

INTRODUCTION

MORI dMEV (fig. 1) is a decentralised mechanical ventilation unit designed to ensure air extraction in small/medium-sized rooms such as bathrooms, toilets and kitchens. Suitable for air discharge directly to the outside or in the presence of short ducted system. Wall, ceiling or window installation (fig. 2).

TECHNICAL SPECIFICATIONS

- Material: high quality, impact and UV-resistant ABS colour RAL 9010.
- Design front cover removable for cleaning without the use of tools.
- Rear reinforcement ring to prevent spigot deformation during installation.
- High efficiency aerodynamic fan with “winglet” blades to optimise quietness and efficiency.
- Single phase EC Brushless motor with integral thermal protection.
- Motor mounted on high quality ball bearings.
- The fan is double insulated: no earth connection is required.
- Trickle speed selectable during installation.
- Option to boost from trickle (or from off) through LS connection or pull cord.
- Installation type selection available (through wall or ducted).
- Timer and Integral Humidistat versions available.
- IPX4 degree of protection.
- Power supply 220V to 240V~ 50Hz.



(fig. 1)

Model	Airflow		Static pressure Pa max	Power W max	Sound pressure dB(A) @3m
	m³/h	l/s			
MORI dMEV II T	83/47/29/21	23.1/13/8/6	27	2.5	26/23/13/11
MORI dMEV II HT	83/47/29/21	23.1/13/8/6	27	2.5	26/23/13/11

VERSIONS

MORI dMEV II T (Timer version)

The fan is provided with over-run timer, adjustable from 0-30 minutes via a trimmer (fig. 17A). The fan works at the selected trickle speed (or off) and can be boosted using the integrated pull cord switch or light switch. Once the boost switch is turned off the fan will continue to run at the boost speed for the set period of time before reverting back to the trickle speed.

The over-run timer function is activated only if the switch has been on for at least 60 seconds.

Pull Cord Operation: The pull cord works as the boost switch. Wire up as per diagram (fig. 16A).

External Switch Operation: To boost the unit with an external switch such as a light switch the pull cord should be disabled. To do this make sure the pull cord switch is not on and simply cut the cord. The plastic caps on the wiring terminals will need to be removed to allow the switch wires to be secured. Wire up as per diagram (fig. 16B). **External Switch and Pull Cord Operation:** If the fan needs to be boosted via a pull cord and external switch the switch used must be a double pole switch. This removes any interference between the fan and the light. Wire up as per diagram (fig. 16B).

MORI dMEV II HT (Humidity control version)

The fan comes complete with an adjustable humidity sensor and adjustable timer. The humidity threshold is adjustable from 50% to 95% Relative Humidity via a dedicated trimmer, and the timer is adjustable from 0 - 30 minutes via a dedicated trimmer (fig. 17B). The fan works at the selected trickle speed (or off) and can be boosted using the integrated pull cord switch or light switch. Once the boost switch is turned off the fan will continue to run at the boost speed for the set period of time before reverting back to the trickle speed. There is also a comfort boost triggered by a humidity level above the set threshold. The Comfort Boost flow rate is approximately half way between the pre-set Background and Boost flow rate. Once the humidity level is below the set point the fan will continue for a factory set period of time before returning to trickle speed.

To deactivate the humidistat function, turn the trimmer HY completely clockwise.

Pull Cord Operation: The pull cord works as the boost switch. Wire up as per diagram (fig. 16D).

External Switch Operation: To boost the unit with an external switch such as a light switch the pull cord should be disabled. To do this make sure the pull cord switch is not on and simply cut the cord. The plastic caps on the wiring terminals will need to be removed to allow the switch wires to be secured. Wire up as per diagram (fig. 16E). **External Switch and Pull Cord Operation:** If the fan needs to be boosted via a pull cord and external switch the switch used must be a double pole switch. This removes any interference between the fan and the light. Wire up as per diagram (fig. 16E).

INSTALLATION TYPE SETTING

Installation type can be selected using the JUMPERS among different options. See fig. 18.

TRICKLE SPEED SETTING

Trickle speed can be selected using the JUMPERS among different options. See fig. 18. Trickle speed can be also set to off.

STANDARD CONFORMITY

2014/35/EU Low Voltage Directive (LVD)

2014/30/EU Electromagnetic Compatibility (EMC), in conformity with the following standards:

Electrical Safety

EN60335-1(2012)+A11+A13; EN 60335-2-80(2003)+A1+A2.

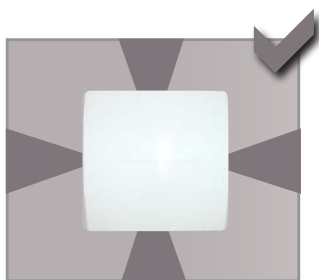
Electromagnetic Compatibility

EN 55014-1(2017); EN 55014-2(2015); EN 61000-3-2(2014); EN 61000-3-3(2013).

4.

INSTALLATION (Fig.2)

Perimetrical exhausting



Wall



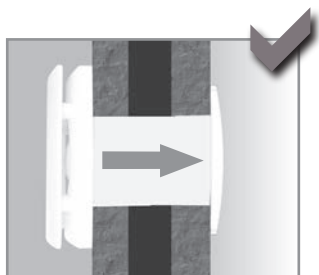
Ceiling (accessory included in the box)



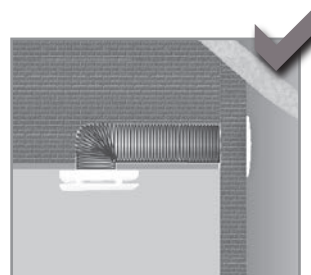
Window (kit on demand)

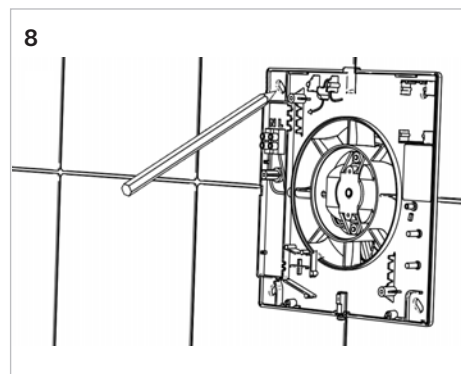
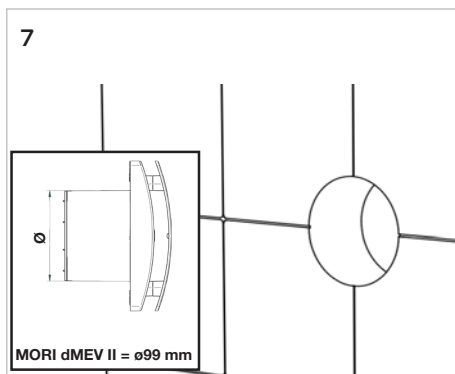
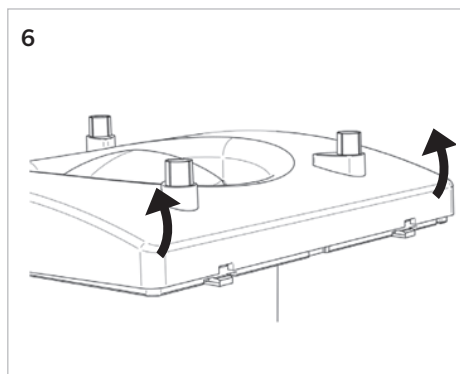
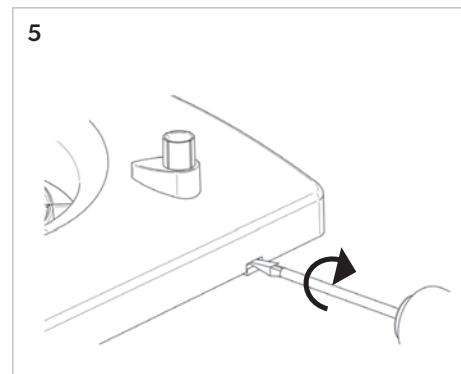
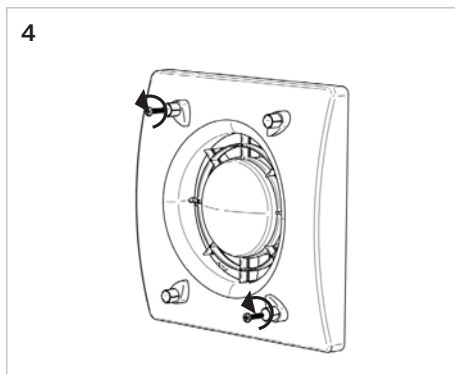
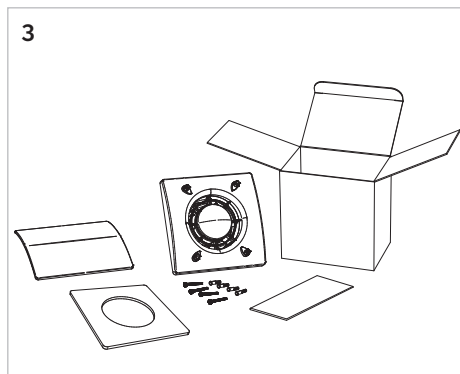


Direct exhausting



Short ducting





Surface cable

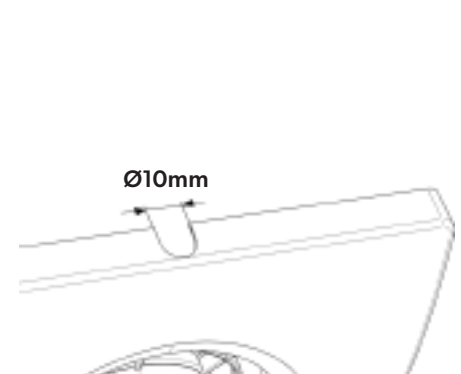
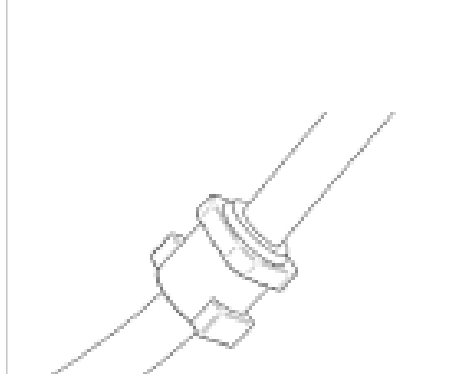
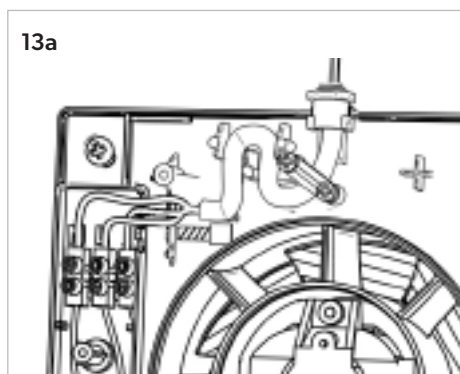
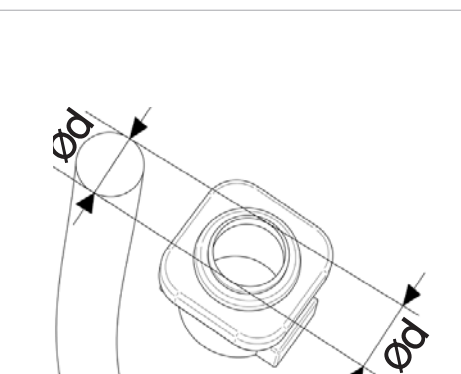
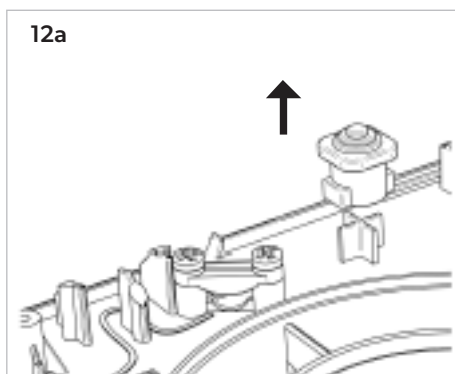
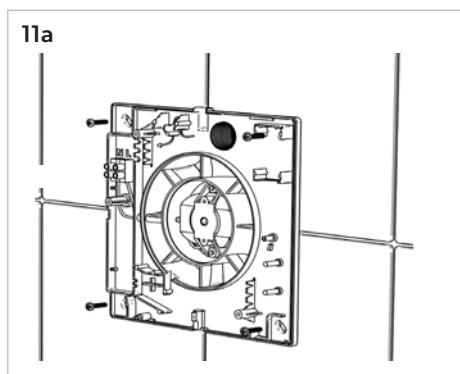
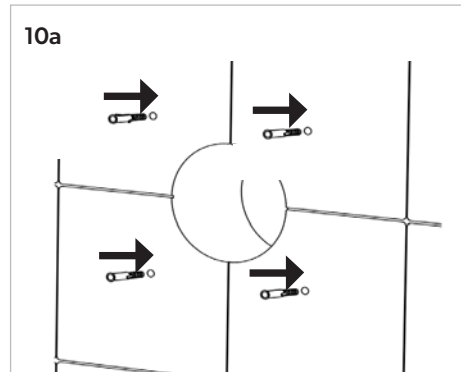
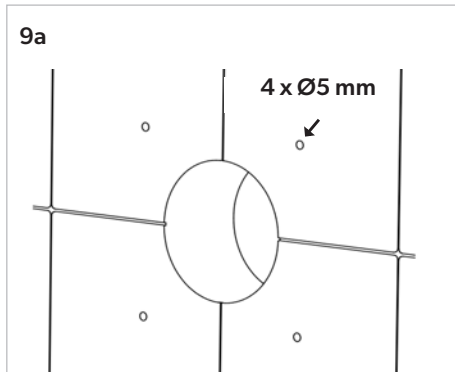
H03VV-F ; H05VV-F

BASE/STD

{ 2 X 0.5 ÷ 1.5 mm²
3 X 0.5 ÷ 1.5 mm²

T-HT

{ 3 X 0.5 ÷ 1.5 mm²
4 X 0.5 ÷ 1 mm²



Recessed cable entry

H03VV-F ; H05VV-F

BASE/STD

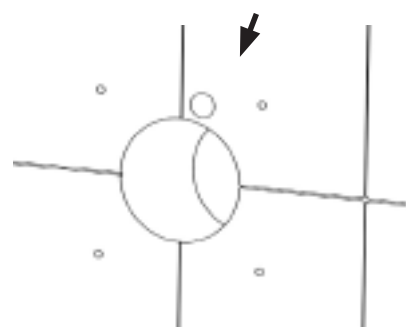
$\left\{ \begin{array}{l} 2 \times 0.5 \div 1.5 \text{ mm}^2 \\ 3 \times 0.5 \div 1.5 \text{ mm}^2 \end{array} \right.$

T-HT

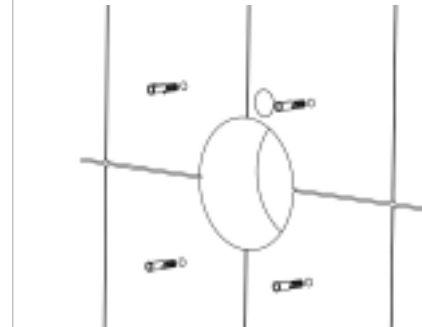
$\left\{ \begin{array}{l} 3 \times 0.5 \div 1.5 \text{ mm}^2 \\ 4 \times 0.5 \div 1 \text{ mm}^2 \end{array} \right.$

9b

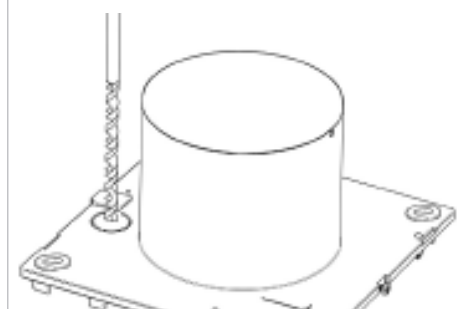
4 x Ø5 mm



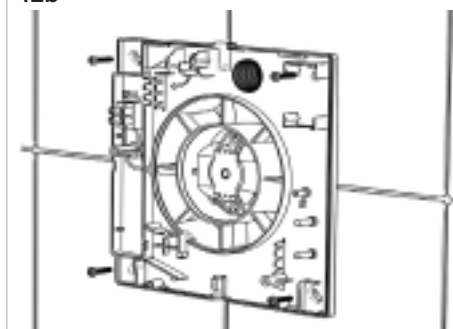
10b



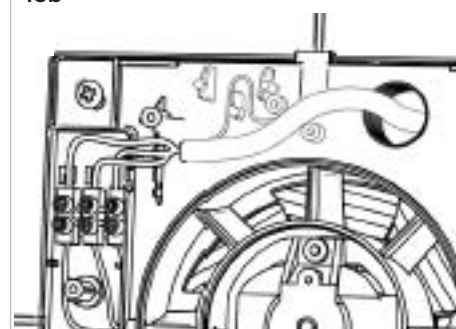
11b



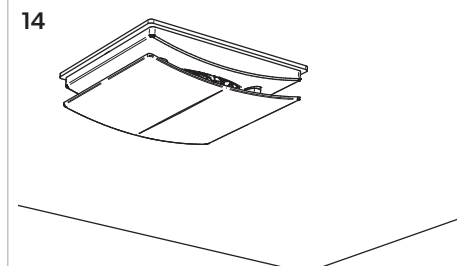
12b



13b

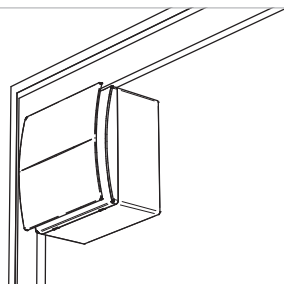


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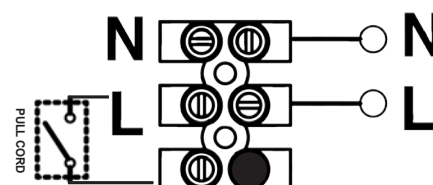
The ceiling mounting gasket should be sandwiched between the fan and the ceiling ensuring that it is flat against the ceiling. Included in the box.

15



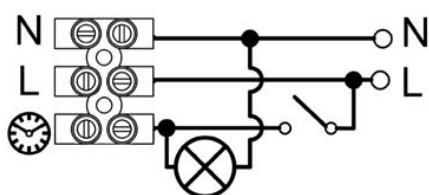
For window mounting instruction please see the individual installation manual.

16a



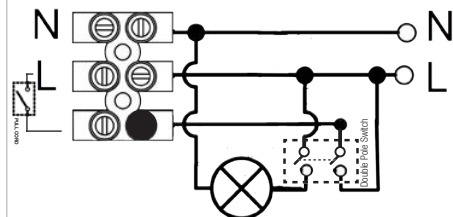
MORI dMEV II T

16b



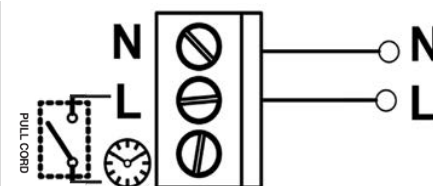
MORI dMEV II T

16c



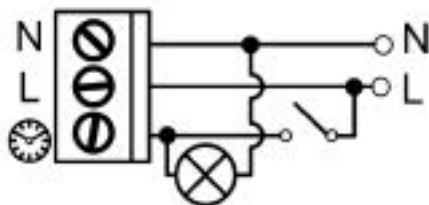
MORI dMEV II T

16d



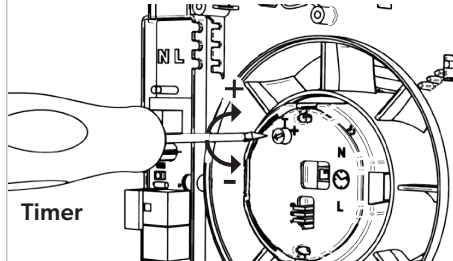
MORI dMEV II HT

16e



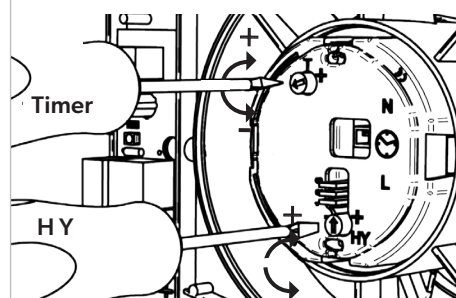
MORI dMEV II T

17a



17b

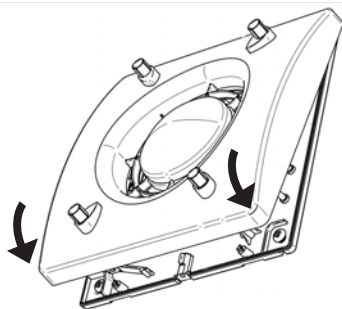
+ higher humidity set point



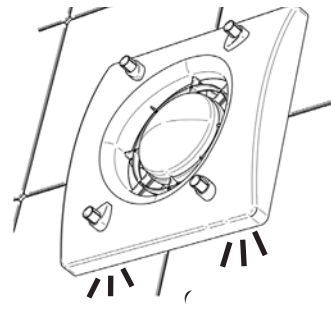
18	JUMPER			INSTALLATION	AIRFLOW
	1	2	3		
				through wall	OFF
		✓		through wall	6L/s
	✓			through wall	8L/s
	✓	✓		through wall	13L/s
✓				in room	OFF
✓		✓		in room	6L/s
✓	✓			in room	8L/s
✓	✓	✓		in room	13L/s

MORI dMEV II M (ISSUE A & B)
MORI dMEV II T - MORI dMEV II HT
✓ = Jumper present

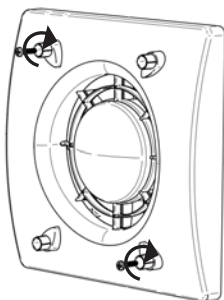
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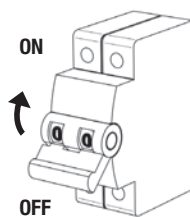
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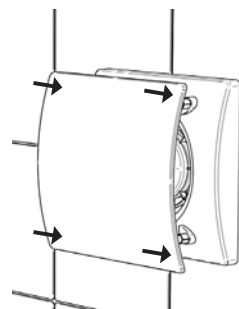
21



22



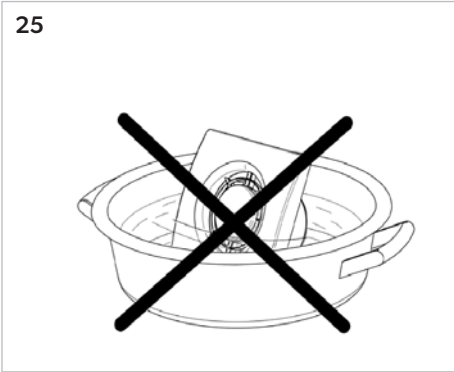
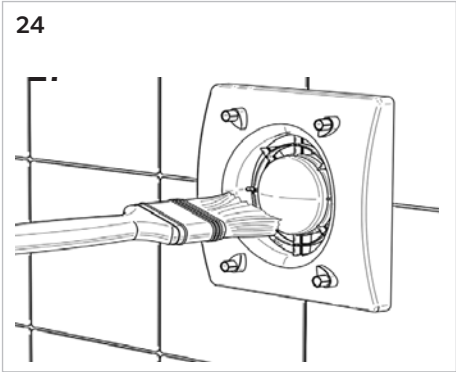
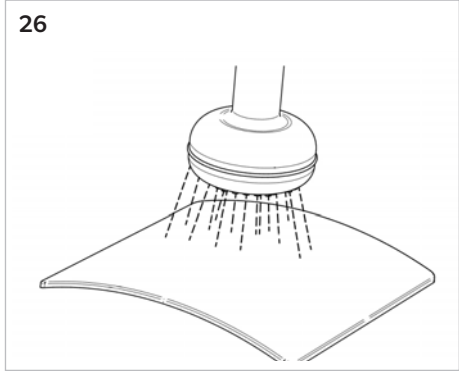
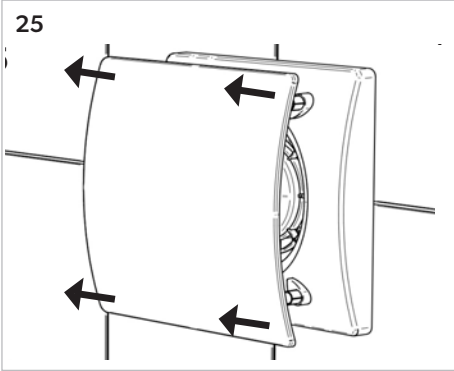
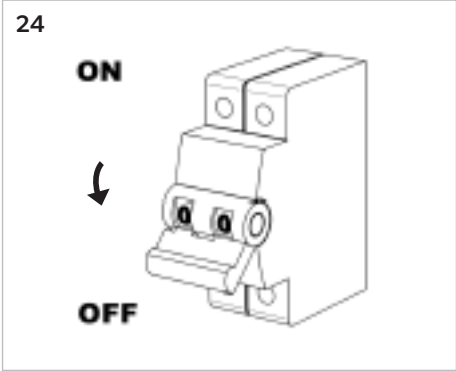
23



MAINTENANCE

The unit should be cleaned regularly as explained in this leaflet to maintain performance and warranty cover. Cleaning should be carried out as and when required but please note intervals between cleaning should not exceed 12 months. The installer should explain this cleaning regime to the homeowner /occupier and ask the homeowner/occupier to keep record of the cleaning done on this leaflet as this will be required to be provided by the homeowner/occupier to claim against any product failure under warranty.

Year	Required Maintenance
1, 2, 3, 4 & 5	Inspect, clean if required. Cleaning frequency dependent on installation (typically 12 months) Page 8



DISPOSAL AND RECYCLING

Information on disposal of units at the end of life.

This product complies with EU Directive 2002/96/EC.

The symbol of the crossed-out dustbin indicates that this product must be collected separately from other waste at the end of its life. The user must, therefore, dispose of the product in question at suitable electronic and electro-technical waste disposal collection centres, or else send the product back to the retailer when purchasing a new, equivalent type device. Separate collection of decommissioned equipment for recycling, treatment and environmentally compatible disposal helps to prevent negative effects on the environment and on health and promotes the recycling of the materials that make up the equipment. Improper disposal of the product by the user may result in administrative sanctions as provided by law.



ErP DIRECTIVE - REGULATIONS 1253/2014 1254/2014

A	Mark	-	Homevent	
B	Model	-	MORI dMEV II T	MORI dMEV II HT
C	SEC class	-	E	C
C1	SEC warm climates	kWh/m2.a	-5.4	-11.3
C2	SEC average climates	kWh/m2.a	-13	-25.7
C3	SEC cold climates	kWh/m2.a	-26.4	-50.7
	Energy label	-	No	No
D	Unit typology	-	Residential - unidirectional	Residential - unidirectional
E	Type of drive	-	Multi speed drive	Multi speed drive
F	Type of Heat Recovery System	-	Absent	Absent
G	Thermal efficiency of heat recovery	%	N/A	N/A
H	Maximum flow rate	m3/h	83	83
I	Electric power input at maximum flow rate	W	2.6	2.6
J	Sound power level (L _{WA})	dBA	44	44
K	Reference flow rate	m3/h	61	61
L	Reference pressure difference	Pa	10	10
M	Specific Power Input (SPI)	W/m3/h	0.028	0.028
N1	Control factor	-	1	0.65
N2	Control typology	-	Manual control (no DCV)	Local demand control
O1	Maximum internal leakage rate	%	N/A	N/A
O2	Maximum external leakage rate	%	N/A	N/A
P1	Internal mixing rate	%	N/A	N/A
P2	External mixing rate	%	N/A	N/A
Q	Visual filter warning	DIP1	N/A	N/A
R	Instructions to install regulated grilles	-	check the instruction booklet	check the instruction booklet
S	Internet address for preassembly/disassembly instructions	-	www.homevent.co.uk	
T	Airflow sensitivity to pressure variations	%	N/A	N/A
U	Indoor/out door air tightness	m3/h	52	52
V1	AEC - Annual electricity consumption - warm climates	kWh	0.4	0.2
V2	AEC - Annual electricity consumption - average climates	kWh	0.4	0.2
V3	AEC - Annual electricity consumption - cold climates	kWh	0.4	0.2
W1	AHS - Annual heating saved - warm climates	kWh	6.3	11.9
W2	AHS - Annual heating saved - average climates	kWh	14	26.2
W3	AHS - Annual heating saved - cold climates	kWh	27.3	51.3

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.

10.

NOTES

NOTES



Tel: +44 (0) 1384 275822, **Email:** sales@homeevent.co.uk

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A MEMBER OF  **ELTA
GROUP**

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