Centair CMEV.4e / CMEV.4eHT Mechanical Extract Ventilation (MEV) System User / Homeowner Guide



Commissioning and Inspection Record:

Located on page 5 of this guide, should have been completed by the Commissioning Engineer.

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1.0 Ventilation In Your Home

Overview

Your home has a continuously running ventilation (MEV) system installed. This consists of a central extract system that is linked by a network of ducts to extract air on a continual basis from the following areas in residential dwellings –

- Kitchen
- Bathroom
- Utility Room
- WC / Cloakroom
- Ensuite Bath / Shower Room

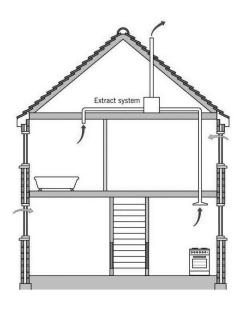


Figure 1

2.0 General Overview

2.1.1 Depending on the way your MEV unit has been installed, the specific operation of your fan may vary. The unit has three speeds available, but may not have been wired to use them all. Options are –

1) Trickle Speed: Operating on a continual basis.

2) Medium Speed: Activated automatically using external sensor control, or manually with GS1

switch.

3) Boost Speed: Activated automatically using external sensor control / light-switch, or

manually with GS1 / GS2 switch.

Note; Not all three speeds may be operational. Medium speed may be disconnected (when using only a light-switch or GS2 switch without an additional external sensor control).

GS2 switch markings -

Trickle (I) & Boost (II) Operation



GS1 switch markings -Trickle (Centre), Medium (I) & Boost (II) Operation

(For use with CMEV.4eHT only)

- 2.1.2 To maintain good indoor air quality within the dwelling it is important that the ventilation system remains in operation at all times unless powered down periodically for maintenance/repair.
- 2.1.3 Depending on when your home was built, background window trickle ventilators may be provided in dry habitable rooms. Trickle vents should not be installed in the same rooms as the mechanical extract valves, as overall ventilation effectiveness can be reduced.
- Warning: 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 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.
- 2.1.5 Where an open-flued oil or gas-fuelled appliance is installed, precautions must be taken to avoid a back-flow of gases into the room.
- 2.1.6 If the supply cord is damaged, it must be replaced by a special cord/assembly available from the manufacturer or its service agent. The replacement must be carried out by a qualified Electrician in accordance with IEE or local regulations.
- 2.1.7 SMART Technology CMEV.4eHT Only

To maintain a healthy indoor environment the CMEV.4eHT includes SMART technology for Over-run Timer (Greenwood TimerSMART™) and Humidity (Greenwood HumidiSMART™).

Greenwood TimerSMART™ monitors the length of time that there is an occupancy presence within a wet-room and provides a fixed over-run time period to best match the length of time that the 'switch live' is active (as shown below):

Time 'Switch Live' is Active	Over-run Boost Period
0 – 5 minutes	No over-run
5 – 10 minutes	5 minutes
10 – 15 minutes	10 minutes
15+ minutes	15 minutes

Greenwood HumidiSMART™ monitors the ambient humidity within the wet-room environment and looks for short peaks of humidity made by either showering or bathing. This SMART technology ensures that your CMEV.4eHT is not on boost for prolonged periods of time due to the higher ambient humidity levels caused during the hot summer months.

2.1.8 To disassemble the unit, disconnect from mains supply and use a screwdriver to segregate the electronic components and motor from the plastic housing. Dispose items in accordance with WEEE.

2.1.9 **WEEE Statement**

This product may not be treated as household waste. Instead it should be handed to an appropriate collection point for the recycling of electrical and Electronic equipment.

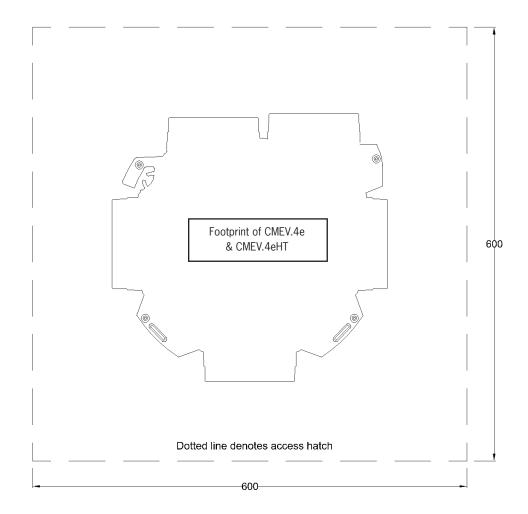
For more detailed information about the recycling of this product, please contact your local council office or your household waste disposal service.



3.0 Servicing / Maintenance

- 3.1.1 CMEV.4e & CMEV.4eHT units contain a self-cleaning backward curved impellor that requires no servicing. The fan motor has sealed for life bearings, which do not require lubrication.
- 3.1.2 Periodic cleaning of the ceiling extract valves should be carried out as required, taking care not to adjust the valves set position, as this may cause either under ventilation or unnecessary over ventilation to occur.
- 3.1.3 Consideration should be given to access for complete unit replacement. For installations where the unit is hidden behind a panel, we recommend a minimum size access panel of 600mm². This is to ensure that the ducts can be disconnected and reattached with ease. (See Figure 2).

3.1.4 Figure 2 – Access for Maintenance



4.0 Commissioning & Inspection Record

- 4.4.1 This section should be used to record all installation details. The Commissioning Engineer should use the following Parts 1 to 3, to record important information relating to the installation, of which, should be incorporated into the Home Information Pack for the homeowner to keep.
 - Part 1 System details and declarations
 - Part 2a Installation details
 - Part 2b Inspection of installation
 - Part 3 Air flow measurement test and commissioning details

Part 1 – System details and declarations

1.1 Installation Address Details			
Dwelling Name/Number			
Street			
Locality			
Town			
County			
Post Code			
1.2 Installation Details			
System Classification*	System 3 – Mechanical Extract Ventilation		
Manufacturer	Zehnder Group UK Limited		
Model Number			
Serial Number (where available)			
Location of MEV Unit			

Part 2a - Installation details

art Za – Ilistaliation details			
2.1 Installation Checklist – General (all Systems)		Tick as appropriate	
Has the system been installed in accordance with manufacturer's requirements?		Yes	No
Have relevant system installation clauses been followed as detailed in Tables 1, 3, 5 and 7 as applicable?		Yes	No
Type of ductwork installed (e.g. rigid, semi-rigid)		·	
If any deviation from Tables 1, 3, 5 and 7, these should be detailed here.			
Description of installed controls (e.g. timer, central control, humidistat, PIR, etc)			
Location of manual/override controls			

^{*}Note. If a system has been installed that is not defined by System 1 to 4 in Approved Document F, further installation checks and commissioning procedures may be required. Seek particular guidance from the manufacturer for these systems.

2.2 Installation Engineers Details		
Name		
Company		
Address Line 1		
Address Line 2		
Telephone Number		
Post Code		
Signature		
Competent Person Scheme/ Registration Number (if applicable)		
Date of Installation (completion)		

Part 2b – Inspection of Installation
This section should be completed before completing Part 3.

2.3a Visual Inspections – General (all Systems)	Tick as appr	as appropriate mm	
Total installed equivalent area of background ventilators in dwelling?		mm	
Total floor area of dwelling?		m²	
Does the total installed equivalent ventilator area meet the requirements given in Tables 5.2a, 5.2b, or 5.2c in ADF?	Yes	No	
Have all background ventilators been left in the open position?	Yes	No	
Have the correct number and location of extract fans/terminals been installed that satisfy Table 5.2a in ADF?	Yes	No	
Is the installation complete with no obvious defects present?	Yes	No	
Do all internal doors have sufficient undercut to allow air transfer between rooms (i.e. 10 mm over and above final floor finish)?	Yes	No	
Has all protection/packaging been removed (including from background ventilators) such that system is fully functional?	Yes	No	
For ducted systems, has the ductwork installation been installed in such manner that air resistance and leakage is kept to a minimum?	Yes	No	
Are the correct number and size of background ventilators provided that satisfy ADF?	Yes	No	
Has the entire system been installed such that there is sufficient access for routine maintenance and repair/replacement of components?	Yes	No	
2.3b Visual Inspections – General (Systems 3 and 4 only)	•		
Have appropriate air terminal devices been installed to allow system balance?	Yes	No	
Has the heat recovery unit (System 4 only) and all ductwork been effectively insulated where installed in unheated spaces?	Yes	No	
Condensate connection is complete and drains to an appropriate location (System 4 only)?	Yes	No	

2.3c Other Inspectio	ns – General (Syst	ems 1, 3 and 4 only)			
Upon initial start up, was any abnormal sound or vibration experienced, or unusual smells detected?				Yes	No
2.3d Inspector's Deta	ails				
Name					
Company					
Address Line 1					
Address Line 2					
Telephone Number					
Post Code					
Signature					
Competent Person Sch Registration Number (in					
Date of Inspection (cor	mpletion)				
3.1 Test Equipment Schedule of air flow me (model and serial)	easurement equipme	ent used,	Date of last UK	(AS calibration	
1.					
2.					
3.					
3.3 Air Flow Measure	ements (Extract) –	System 3 and 4 only			
Room reference (location of terminals)	Measured Air Flow High Rate (I/s)	Design Air Flow High Rate (I/s) Refer to Table 5.1a ADF	Measured Air Flow Low Rate (I/s)	Design A Low Rate Refer to	
Kitchen					
Bathroom					
En Suite					
Utility					
Other					
Other					

Other...

3.5 Commissioning - Systems 3 and	d 4 only		
Have controls been set-up in accordance with the manufacturer's recommendations?			No
Have all distribution grilles been locked to prevent unauthorised adjustment?		Yes	No
3.6 Test Engineer's Details			
Name			
Company			
Address Line 1			
Address Line 2			
Telephone Number			
Post Code			
Signature			
Competent Person Scheme/ Registration Number (if applicable)			
Date of Test			

5.0 Declaration of Performance

(Cold, Average, Warm)

Declaration of Performance Residential Ventilation Unit Greenwood Centair CMEV.4e / HT Supplier Name or Trade Mark Greenwood Airvac Greenwood Airvac Central Demand Control **Local Demand Control** Supplier Model Identifier and Options Installed (with 1 sensor) (with 2 or more sensors) SEC in [kWh/(m²a)] specific energy consumption -41.6 -20.6 -8.6 -54.6 -27.5 -12.0 (Cold, Average, Warm) SEC Class F Α D A+ В F (Cold, Average, Warm) Declared Typology Unidirectional Unidirectional Type of Motor Drive Installed Variable Speed Variable Speed Type of Heat Recovery None None Heat Recovery Efficiency n/a n/a Maximum Flow Rate in (m3/h) / (l/s) 352 / 98 352 / 98 Electric Power Input at Maximum Flow Rate (W) 36 36 Sound Power Level (LwA) in dB(A)) 51 51 Reference Flow Rate in (m3/h) / l/s) 245 / 68 245 / 68 Reference Pressure Difference 50 50 0.06 SPI in [W/(m³/h)] 0.06 85 Control Factor and Typology .65 Internal: n/a Internal: n/a Declared Maximum Internal and External Leakage (%) External: n/a External: n/a Position and Description of Visual Filter Warning n/a n/a www.greenwood.co.uk Internet Address for Preassembly / Disassembly Instructions www.greenwood.co.uk AEC (kWh electricity/a) for Each Climate 0.5 0.5 0.5 0.3 0.3 0.3 (Cold, Average, Warm) AHS (kWh electricity/a) for Each Climate 42.9 21.9 9.9 55.4 28.3 12.8

6.0 The Guarantee Period

- 6.1.1 This Greenwood product (**CMEV.4e** / **CMEV.4eHT**) has a 2 Year Guarantee.
- 6.1.2 This does not affect your statutory rights.
- 6.1.3 Full details available on request from +44 (0) 1276 408404 or www.greenwood.co.uk / info@greenwood.co.uk

All information is believed correct at time of going to press. E&OE. All dimensions referred to are in millimetres unless otherwise shown.

All goods are sold according to Zehnder Group UK Ltd's Standard Conditions of Sale which are available on request.

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