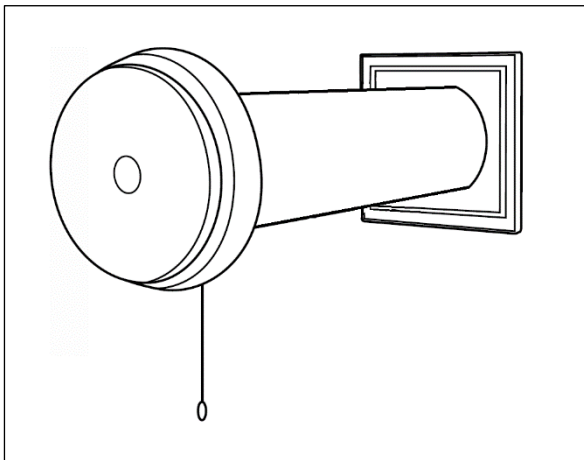




Airflow Wallvent 100 Pullcord Installation Guide



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Preparation

1. For optimal flow and to reduce cold draughts, background ventilators should be installed 1.7m above floor level and remain easy for occupants to reach.
2. To minimise cracking, drill a pilot hole and then core drill from both sides into the wall cavity.

NOTE! *Horizontal ducting, including ducting in walls should be arranged to slope slightly downwards away from the internal grille to prevent backflow of any moisture into the property.*

Use a 102mm dia. Core drill for Airflow Wallvent 100 Pullcord.

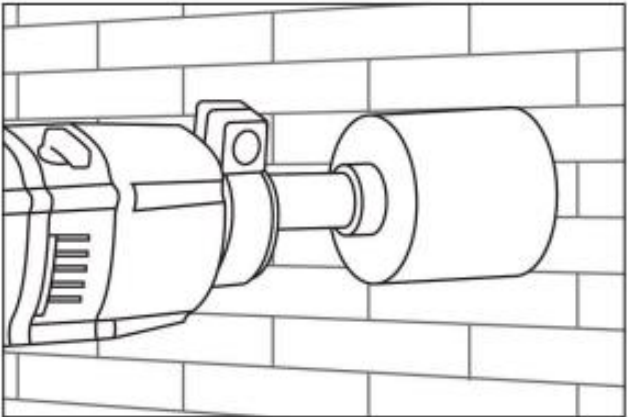


Fig. 1

3. Measure the wall thickness and cut the duct to length.
4. The tube should be flush to the inside and outside surfaces.

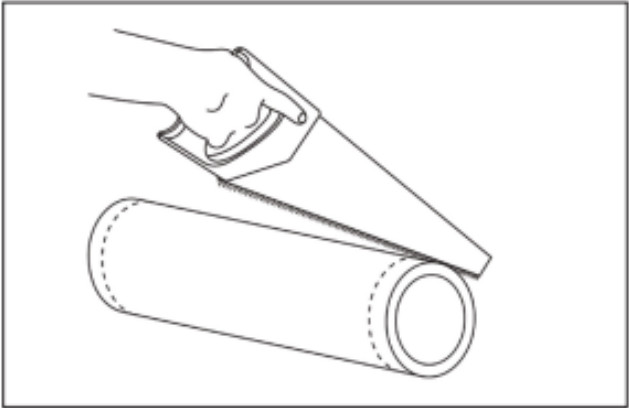


Fig.2

5. To ensure the integrity of the wall, each end of the cut duct, between the duct and wall should be sealed.

The internal and external grilles can be fitted using either screws or sealant/mastic. However, the following steps can be followed for guidance purposes:

Fixing External Grille

1. The external grille can be fixed to the brickwork using screws in the preformed holes located on the reverse side of the grille using the fixing kit supplied.
2. Carefully unclip the grille plate from the back plate by pushing in the clasps that are located on the reverse of the grille either side the spigot, avoiding damage to the louvres and fly screen – see Fig.3 below.

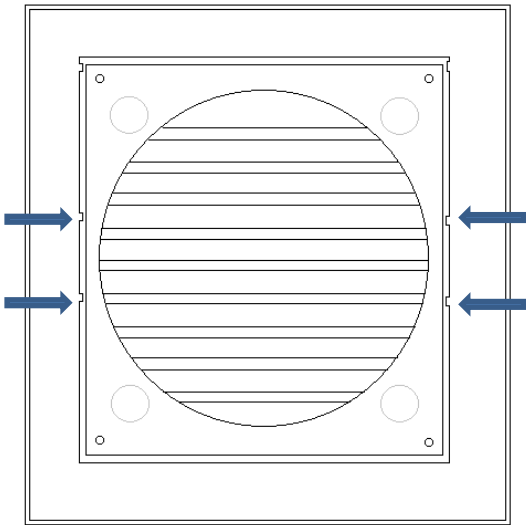


Fig.3

3. Remove the grille and fly screen from the back plate. The preformed holes for fixing the external grille to the brick will be located at each corner of the back plate. See Fig 4. Below.

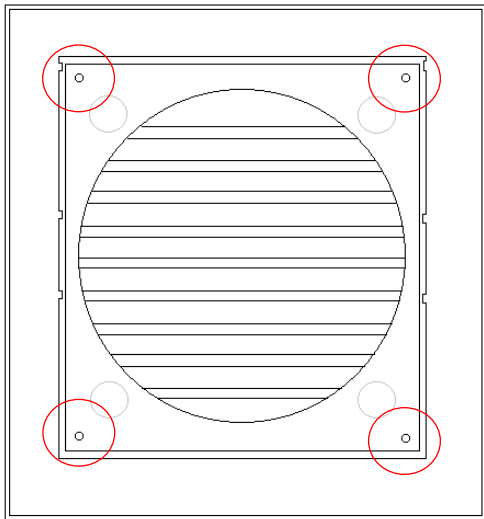


Fig.4

4. Dry fit external grille in the duct and flush to the wall. Ensure the grille is flush and level.

5. Mark holes on to the external wall by using the external grille as a template.
6. Using an 8mm diameter masonry drill, drill holes in the wall 3.5mm deep.
7. Fit supplied raw plugs in drilled holes.
8. Apply a bead of sealant around the spigot of the external grille. (Sealant not supplied.)

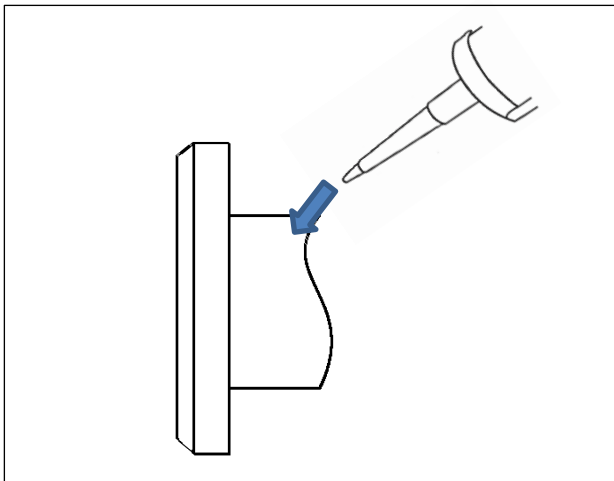


Fig.5

9. Insert the external grille inside the duct from the outside.
10. Before the sealant sets, ensure the grille is flush and level before screw fixing.

11. Once fixed, re-attach the fly screen and then the grille plate ensuring they are securely in place.
12. Before fixing internal Valve, ensure sealant is applied between the duct and the wall on the inside to maintain the integrity of the wall.

Fitting Internal Valve

1. Once the sealant has set, the Wallvent 100 Pull Cord Valve can simply be pushed into the duct.
2. Ensure the valve is fitted flush against the wall.

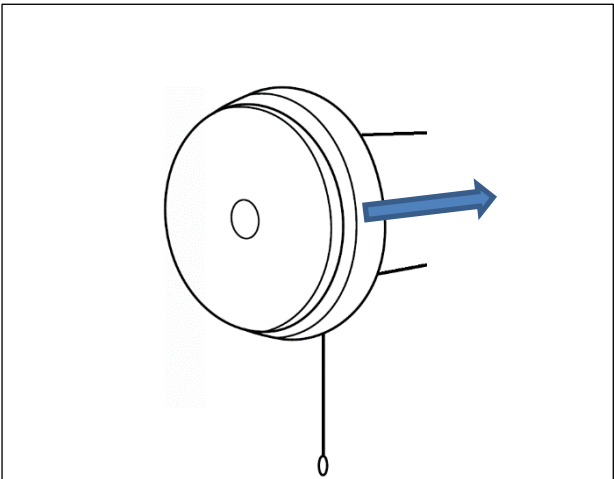


Fig.6

3. Refer to Setup & Operation below for steps on how to set the valve to the required setting to provide adequate ventilation and inspection by building control bodies.

Setup & Operation

The Wallvent 100 Pullcord is a manually adjustable passive background ventilator intended to provide fresh air inside a dwelling allowing the circulation of fresh, natural air. Ideally suited to intermittent and centralised/ decentralised continuous mechanical extract systems (dMEV, Centralised MEV).

1. Once the ventilator has been installed, the valve disc will need to be adjusted to ensure adequate ventilation.
2. The valve can be adjusted by pulling down on the pull cord. The pull cord mechanism has three settings.
3. As the pull cord is pulled, the disc moves forward, widening the gap, thus increasing the volume of air that can enter the dwelling. In doing so you are creating a larger equivalent free area.

If an **intermittent extract** system has been installed refer to Approved Document F 2021 edition of building regulations, Table 1.7 for minimum equivalent area of background ventilator rates.

If a **continuous mechanical extract** ventilation system (dMEV, Centralised MEV) has been installed refer to Approved

Document F 2021 edition of building regulations (page16) for minimum equivalent area of background ventilators.

4. The table below provides guidance on the gap in mm required to achieve a minimum equivalent free area:

Equivalent Free Area (mm ²) *			
Opening (mm)	7mm	12mm	17mm
Equivalent Free Area (mm ²)	2849	3828	4184

at *1Pa

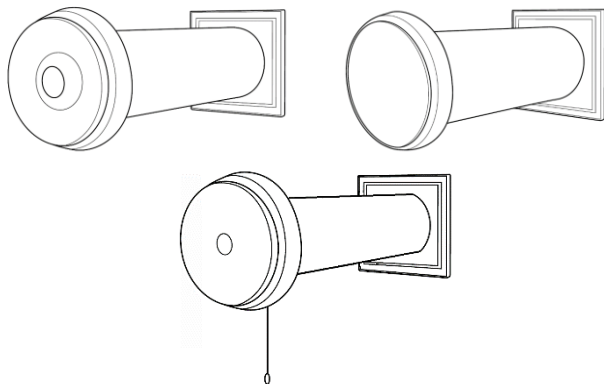
6. Measure the gap to the desired opening (mm) as detailed the table above. This will achieve the corresponding Equivalent Free area required.
7. The corresponding opening (mm) and equivalent area sticker provided with this product must be applied on the valve where it will be easy to see by building control bodies.

IMPORTANT! This installation guide must be provided to the homeowner or included in the homeowner's manual upon handover.

Maintenance

The valve faceplate and mounting plate can be cleaned using a damp cloth.

NOTE! Do not use abrasives or chemicals.



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