# MORI WMF

## Weatherproof Multi-Functional Sub-Floor Ventilation Fan

# MORI WMF

## Product Overview

### Application

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

Many sub-floor spaces have insufficient natural ventilation with the only option to provide some form of mechanical Ventilation to the space. The **MORI WMF** was specifically designed for such applications.

The combination of wide airflows and various control modes provides the sub-floor ventilation system designer with much choice and flexibility.

### Operation

The integral controls provided as standard allow for the fan to be set at installation stage to operate at 3 different speeds/airflows and, at each speed/airflow, to operate in supply mode, extract mode or alternate flow mode with the fan automatically switching itself between supply and extract modes every 70 seconds.

When set up to provide automatic alternate flow, the fan can be set to start on either supply or extract mode when connected to the mains power. This allows multiple units to be “synchronised” with each other if required to ensure as one or more units supply air, the other unit or units extract air, with operating modes of each fan alternating every 70 seconds.

### Features / Benefits

**Unique weatherproof design** allowing the fan to be mounted outside making installation and maintenance easier than with sub-floor mounted fans.

**Discreet unit** appearance available in 4 different colours to blend in with the dwelling.

**Low energy** fan/motor assembly with typical electrical running cost under £10 per year for continuous operation.

**Ultra-quiet** operation on all operating modes.

**Multi-functional controls** as standard set up by installer selecting from:

- Speed 1.
- Speed 2.
- Speed 3.
- Extract mode.
- Supply mode.
- Alternate flow mode with the fan switching itself automatically between supply and extract mode approximately every 70 seconds.
- Synchronisation of fans when in alternate flow mode.

See diagrams at the bottom of page 3 for multi-functional controls.

**ULTRA QUIET**
**VERY LOW RUNNING COSTS**
**4 COLOUR CHOICES**


Tel **01384 275807** Fax **01384 275810** Email **info@eltafans.co.uk** Website **eltafans.com**

Units available with polyester powder coated matt/30% gloss finish front cover/ grille in **4 different colours** as follows:

| Product Code | Front Cover Colour | RAL No. |
|---|---|---|
| MORI WMF100-GREY | Window Grey | 7040 |
| MORI WMF100-BROWN | Choc-olate Brown | 8017 |
| MORI WMF100-WHITE | Signal White | 9003 |
| MORI WMF100-BEIGE | Beige | 1001 |

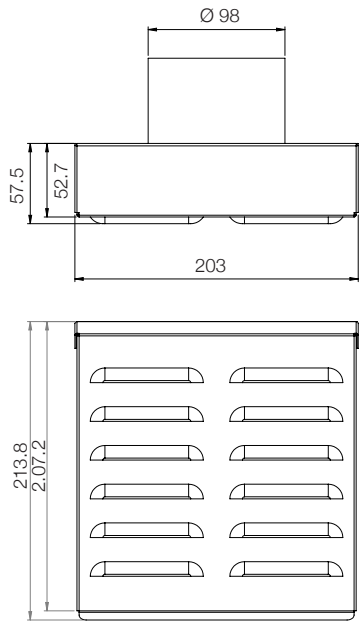
## Performance Data

| Operation Temperature Range of -20°C to 50°C | Speed 1 | Speed 2 | Speed 3 |
|---|---|---|---|
| Extract Max l/s | 4 | 7 | 12 |
| Supply Max l/s | 4 | 6 | 10 |
| Extract Max Power W | 1.5 | 1.7 | 2.7 |
| Supply Max Power W | 1.5 | 1.7 | 2.6 |
| Extract dB(A) @ 3 metres | < 9 | < 15 | < 29 |
| Supply dB(A) @ 3 metres | < 9 | < 15 | < 29 |
| Extract Only Annual Electrical Running Cost in £ @ 20 pence/kWh | 2.63 | 2.98 | 4.73 |
| Supply Only Annual Electrical Running Cost in £ @ 20 pence/kWh | 2.63 | 2.98 | 5.08 |
| Alternate Flow Annual Electrical Running Cost in £ @ 20 pence/kWh | 2.63 | 2.98 | 4.91 |

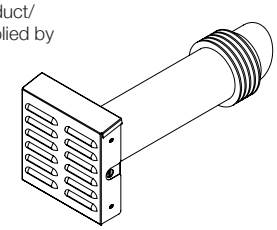
The performance figures in the table above are based on the unit attached to a wall duct/ grille with gasket as shown below. Performance of units designed to work in conjunction with air bricks/grilles with a high resistance to airflow may be reduced. The addition of ducting to units will also reduce the performance of the unit. In such situations please contact us for advice. Please also see **GUIDANCE ON ATTACHING DUCTING** on the last page of this brochure for further information.

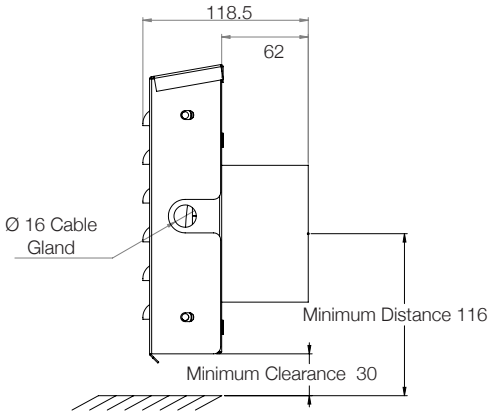
## Dimensional Data

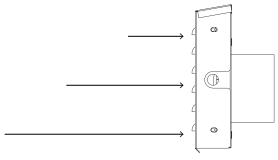
Dimensions in mm



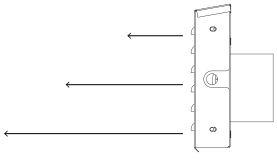

Unit shown with wall duct/ grille with gasket supplied by installer.



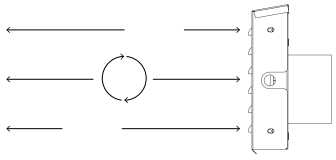


**Supply Mode.** Selectable speed 1,2 or 3.



**Extract Mode.** Selectable speed 1,2 or 3.



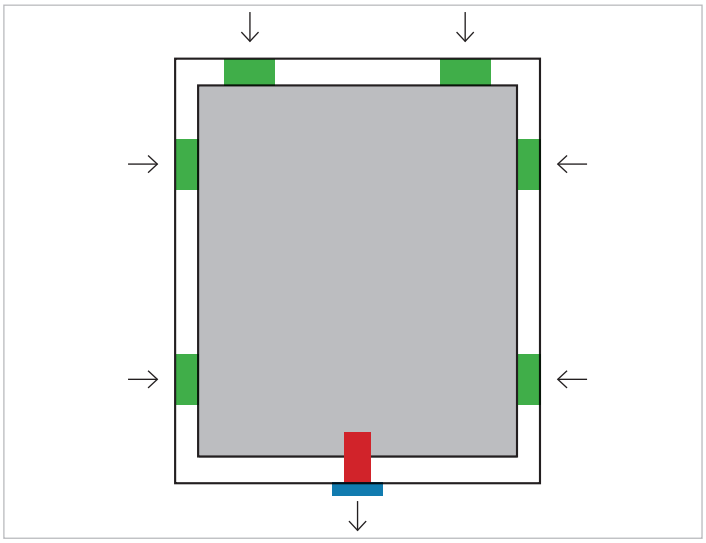
**Alternate Flow Mode.** Selectable speed 1,2 or 3.

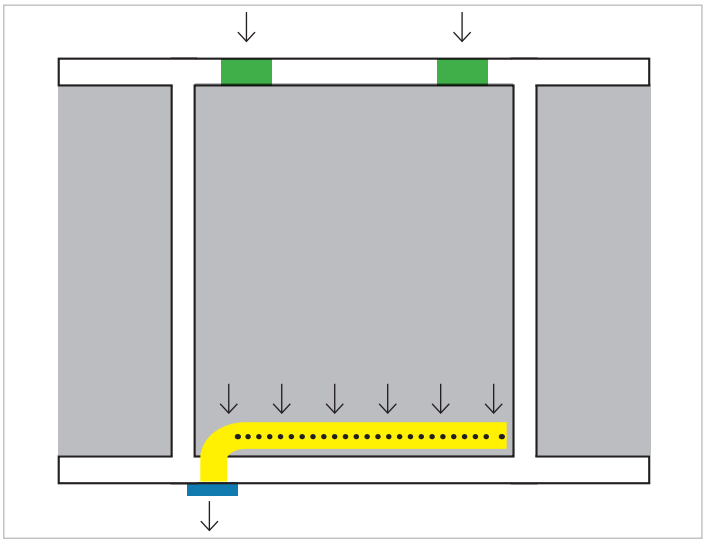
## System Design Concepts & Ideas

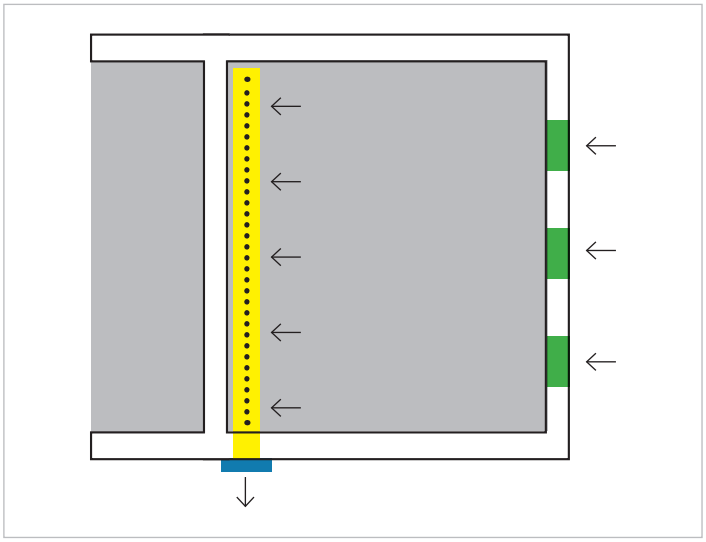
- **MORI WMF**
- **Wall duct/grille with gasket**
- **Airbrick or grille**
- **100mm Ø perforated duct system ***

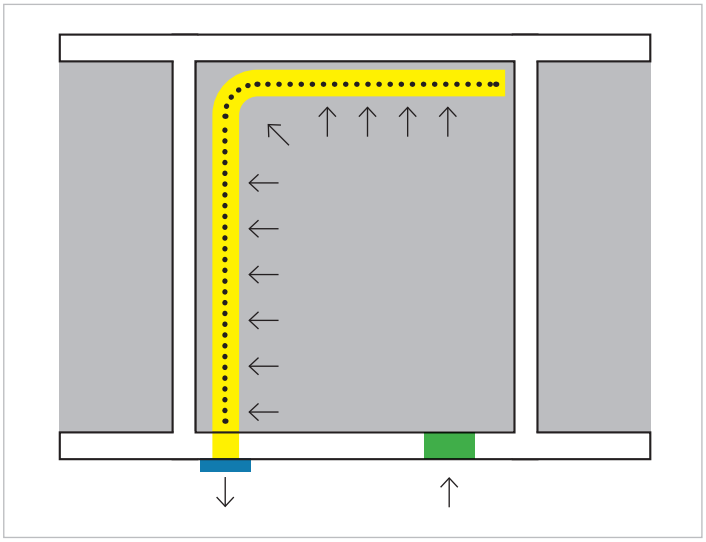
The diagrams below are conceptual only. They should not be considered a design for any particular sub-floor ventilation system. Design responsibility rests solely with the system designer.

The diagrams show the **MORI WMF** operating in **Extract mode**. In **Supply mode** the airflow arrow directions would be opposite to those shown. When set up to operate in **Alternate Flow mode** airflow direction changes automatically every 70 seconds.









**Guidance on attaching ducting** We recommend the use of 100 mm diameter rigid plastic ducting, capped at the end, no longer than 16 metres long, with no more than 4 off 90 degree bends and perforated with no less than 70 off 12.7 mm diameter air inlet/outlet holes spaced appropriately along its length (this number and size of holes is required for any length of ducting). Condensate drainage holes should also be provided at suitable locations along the bottom of the duct run. The attachment of ducting will reduce the performance of the unit with the reduction dependant on a number factors including the length, number of bends, etc. As a rough guide, if the aforementioned limitations are complied with, the airflow rates in the table on page 3 of this leaflet would be expected to reduce by about 1/3rd. Please contact us if you need more detailed advice on the expected reduction in airflows of attaching a ducting system to the unit.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