

envirovent®

# MEV 160 and MEV 300

Mechanical Extract Ventilation



# Introducing the MEV 160 and MEV 300

The MEV 160 and MEV 300 are versatile, compact and high performance systems with airflow rates up to 75l/s (270m<sup>3</sup>/hr) for the MEV 160 and 103l/s (370m<sup>3</sup>/hr) for the MEV 300.

Ideal for houses, apartments and other communal residences, such as care homes and student accommodation, they are designed with multiple extract points to simultaneously draw moisture-laden air from the wet rooms, whilst minimising the migration of humidity to other rooms. Achieving extremely low Specific Fan Powers, they are ideal for applications up to Kitchen plus 6 additional wet rooms.

install-  
friendly



user-  
friendly



planet-  
friendly



install-  
friendly

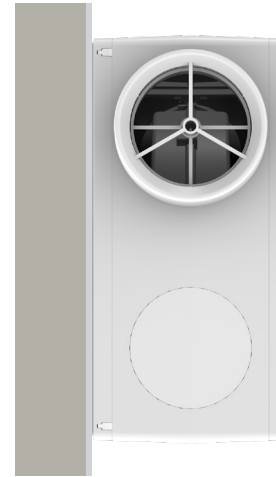


# Install Friendly

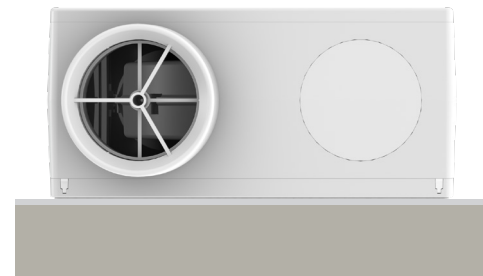
The MEV 160 and 300 have been designed for utmost ease and flexibility of installation in mind. With an extremely low profile of 16cm and weighing in at just 5kg, it is perfect for where space is restricted. The unit can be installed horizontally on floors and ceilings or vertically on walls. The six twist, fix and release entry points can be easily swapped if required.

The easy push button commissioning pad enables the installer to correctly set the required airflow rate quickly and effectively.

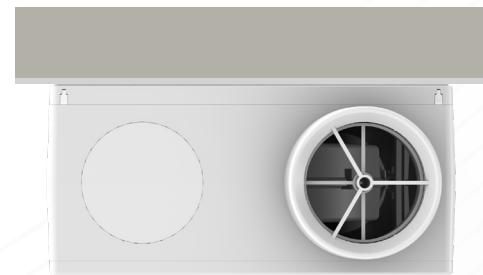
- ✓ Lightweight, one-man installation, just 5kg
- ✓ Minimalistic and compact profile of just 16cm
- ✓ Rapid and easy installation
- ✓ Extremely versatile
- ✓ 6 twist, fix and release entry points



*Wall Mounting*



*Floor Mounting*



*Ceiling Mounting*

# Fast Track Your Next Project

The MEV 160 and 300 have been designed to connect to the Fast Track Range of ducting as an option. The units are available with two different versions of spigot pack to connect to either standard rigid or Fast Track ducting. The EnviroVent Fast Track Range ensures rapid installation up to twice the speed of traditional screw and glue, proving a sustainable airtight connection.

- ✓ Up to twice the speed of a traditional screw and glue installation
- ✓ Antibacterial internal lining
- ✓ Minimal energy consumption





user-  
friendly



## User Friendly

The MEV 160 and 300 run continuously at a low level to ensure that good indoor air quality all year round. Intellitrac® humidity tracking comes as standard, which constantly monitors the humidity level, meaning no user intervention is required. As humidity rises and falls, the motor speed responds in direct correlation to control condensation quietly and efficiently.

- ✓ Intellitrac® humidity tracking as standard
- ✓ Switch Live as standard
- ✓ Wireless remote control or wired boost switch options available
- ✓ Connectivity to AirSens® IAQ sensors



| Code       | Description  |
|------------|--|
| MEV160     | MEV 160- With Intellitrac® humidity tracking and wired boost switch                  |
| MEV160FT   | MEV 160- With Intellitrac® humidity tracking and wired boost switch. Fast Track      |
| MEV160-W   | MEV 160- With Intellitrac® humidity tracking and Wireless Remote Control             |
| MEV160FT-W | MEV 160- With Intellitrac® humidity tracking and Wireless Remote Control. Fast Track |
| MEV300     | MEV 300- With Intellitrac® humidity tracking and wired boost switch                  |
| MEV300FT   | MEV 300- With Intellitrac® humidity tracking and wired boost switch. Fast Track      |
| MEV300-W   | MEV 300- With Intellitrac® humidity tracking and Wireless Remote Control             |
| MEV300FT-W | MEV 300- With Intellitrac® humidity tracking and Wireless Remote Control. Fast Track |

3 Spigots are supplied as standard. For additional spigots, please refer to **Page 12** for order codes.

# AirSens®

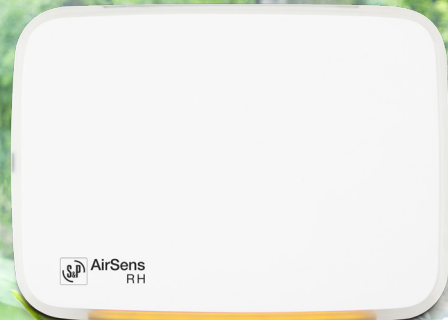
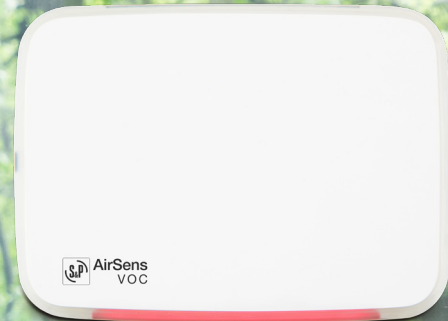
For those who like to keep an eye on air quality levels, **AirSens®** provides an easy-to-read colour-coded display, showing the current air quality at any time:

- Poor air quality
- Medium air quality
- Good air quality

Available in three models, **AirSens®** can detect and control levels of:

- ✓ Carbon Dioxide (CO<sub>2</sub>)
- ✓ Volatile Organic Compounds (VOCs)
- ✓ Relative Humidity

The MEV 300 & MEV 160 can be connected to an **AirSens®** sensor. This means they react automatically to changes in air quality, instantly increasing the extract rate from the property to maintain a healthy environment when needed.





# Planet Friendly

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The MEV Fast Track Range is constructed widely out of recyclable materials to reduce the impact on landfill and is designed to ensure that components can easily be replaced.

Powered by DC motor technology, the range uses the lowest energy consumption, reducing carbon emissions.





# Technical Specification

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## Product

Innovative and low energy unit which has been designed to provide continuous mechanical extract ventilation to allow you to meet current building regulations.

## Applications

Suitable for use in houses and apartments with kitchen plus up to 6 wet rooms. The unit can be installed horizontally on floors and ceilings or vertically on walls. The six twist, fix and release entry points can be easily swapped if required.

## Installation

A full installation guide is enclosed with all products or is available for download on the EnviroVent website. The unit is pre-wired with a standard length of cable for connection to the 230V mains supply and includes a switch live connection. The unit can be installed horizontally on floors and ceilings or vertically on walls and is provided with an Ø125mm exhaust outlet and three Ø125mm spigot inlets (as standard) connecting into six possible locations on the unit.

Optional versions of the product are available for connection to the Fast Track ducting system, this is a semi-rigid ducting solution for fast airtight installation. Additional spigot inlets can be purchased separately.

## Controls

The unit shall be commissionable by the installer in accordance with Approved Document F of the Building Regulations for England and Wales. They shall be fitted with the Intellitrac® humidity tracking system, which regulates the fan speed when the RH level varies above/below the set point. There is a choice of either wireless or hardwired boost switching.

### Optional Wireless Remote Control versions – W:

These units are supplied with a wireless remote control to boost the airflow for 20 minutes (default time), before returning to the commissioned trickle speed setting. 0-10V variable control input is available on – W units for use with AirSens® or other 0-10V devices.

## Construction

Durable ABS plastic body.

## Fan

**MEV 160** - Incorporates a Ø160mm backward curved centrifugal fan that uses a highly efficient DC motor which is designed to operate continuously at a pre-set rate.

**MEV 300** - Incorporates a Ø190mm backward curved centrifugal fan that uses a highly efficient DC motor which is designed to operate continuously at a pre-set rate.

## Servicing / Maintenance

There are no special requirements for maintenance within two years.

If fitted with cone filters (located in the extract valves), maintenance of these filters is recommended every 6 to 12 months depending on environmental conditions.

The unit is easy to clean by simply removing the lid. Always refer to the instruction guide before carrying out maintenance.

## Warranty

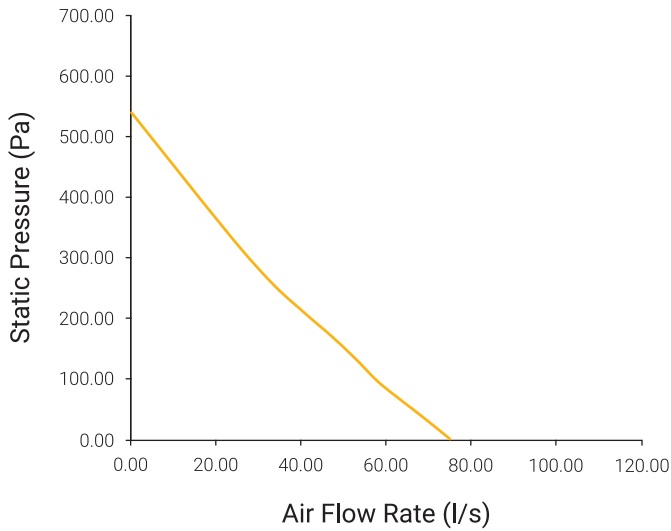
Covered by a 2-year warranty, subject to the completion of specified maintenance.

## Accreditations

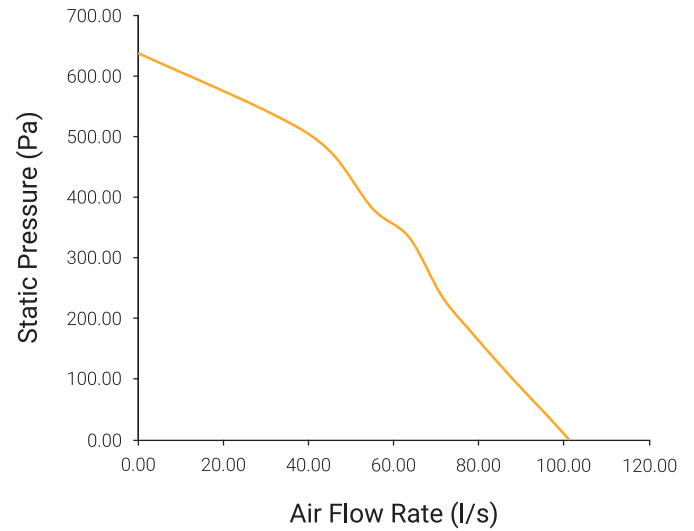
CE and UKCA Marked.  
SAP NCM PCDB Listed  
Manufactured under BS EN ISO 9001 and BS EN ISO 14001

# Performance Data

## MEV 160



## MEV 300



| Exhaust Terminal Configuration | Specific Fan Power (W/l/s) | Total Flow Rate (l/s) |
|--------------------------------|----------------------------|-----------------------|
| Kitchen + 1 wet room           | 0.19                       | 21                    |
| Kitchen + 2 wet room           | 0.23                       | 29                    |
| Kitchen + 3 wet room           | 0.27                       | 37                    |
| Kitchen + 4 wet room           | 0.35                       | 45                    |
| Kitchen + 5 wet room           | 0.44                       | 53                    |
| Kitchen + 6 wet room           | 0.59                       | 61                    |

| Exhaust Terminal Configuration | Specific Fan Power (W/l/s) | Total Flow Rate (l/s) |
|--------------------------------|----------------------------|-----------------------|
| Kitchen + 1 wet room           | 0.19                       | 21                    |
| Kitchen + 2 wet room           | 0.20                       | 29                    |
| Kitchen + 3 wet room           | 0.22                       | 37                    |
| Kitchen + 4 wet room           | 0.25                       | 45                    |
| Kitchen + 5 wet room           | 0.31                       | 53                    |
| Kitchen + 6 wet room           | 0.36                       | 61                    |

SAP results shown with 125mm connectors. See PCDB for full details.

SAP results shown with 125mm connectors. See PCDB for full details.

## MEV 160

| Exhaust Terminal Configuration | Fan Speed Setting | Specific Fan Power (W/l/s) | Total Flow Rate (l/s) |
|--------------------------------|-------------------|----------------------------|-----------------------|
| Kitchen + 1 wet room           | 100% Var          | 0.21                       | 21                    |
| Kitchen + 2 wet room           | 100% Var          | 0.26                       | 29                    |
| Kitchen + 3 wet room           | 100% Var          | 0.33                       | 37                    |
| Kitchen + 4 wet room           | 100% Var          | 0.39                       | 45                    |
| Kitchen + 5 wet room           | 100% Var          | 0.54                       | 53                    |

MEV160FT with 75mm Fast Track Ducting

## MEV 300

| Exhaust Terminal Configuration | Fan Speed Setting | Specific Fan Power (W/l/s) | Total Flow Rate (l/s) |
|--------------------------------|-------------------|----------------------------|-----------------------|
| Kitchen + 1 wet room           | 100% Var          | 0.22                       | 21                    |
| Kitchen + 2 wet room           | 100% Var          | 0.22                       | 29                    |
| Kitchen + 3 wet room           | 100% Var          | 0.23                       | 37                    |
| Kitchen + 4 wet room           | 100% Var          | 0.27                       | 45                    |
| Kitchen + 5 wet room           | 100% Var          | 0.34                       | 53                    |

MEV300FT with 75mm Fast Track Ducting

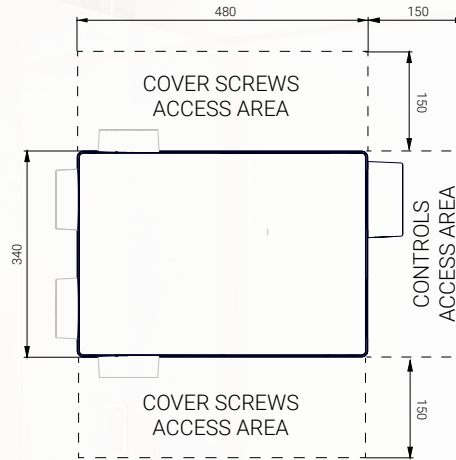
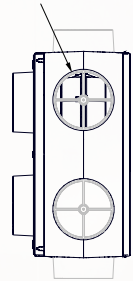
| Exhaust Terminal Configuration | Fan Speed Setting | Specific Fan Power (W/l/s) | Total Flow Rate (l/s) |
|--------------------------------|-------------------|----------------------------|-----------------------|
| Kitchen + 1 wet room           | 100% Var          | 0.18                       | 21                    |
| Kitchen + 2 wet room           | 100% Var          | 0.22                       | 29                    |
| Kitchen + 3 wet room           | 100% Var          | 0.28                       | 37                    |
| Kitchen + 4 wet room           | 100% Var          | 0.35                       | 45                    |
| Kitchen + 5 wet room           | 100% Var          | 0.52                       | 53                    |

MEV160FT with 90mm Fast Track Ducting

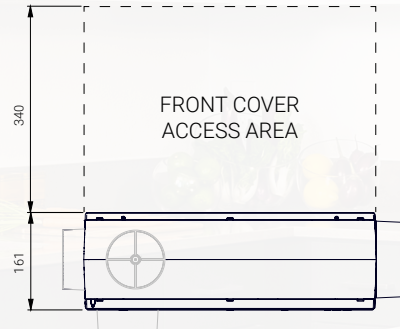
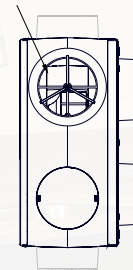
| Exhaust Terminal Configuration | Fan Speed Setting | Specific Fan Power (W/l/s) | Total Flow Rate (l/s) |
|--------------------------------|-------------------|----------------------------|-----------------------|
| Kitchen + 1 wet room           | 100% Var          | 0.20                       | 21                    |
| Kitchen + 2 wet room           | 100% Var          | 0.20                       | 29                    |
| Kitchen + 3 wet room           | 100% Var          | 0.23                       | 37                    |
| Kitchen + 4 wet room           | 100% Var          | 0.25                       | 45                    |
| Kitchen + 5 wet room           | 100% Var          | 0.34                       | 53                    |

MEV300FT with 90mm Fast Track Ducting

Spigot Packs for  
 Ø125mm rigid duct  
 or Ø90/75mm Fast Track



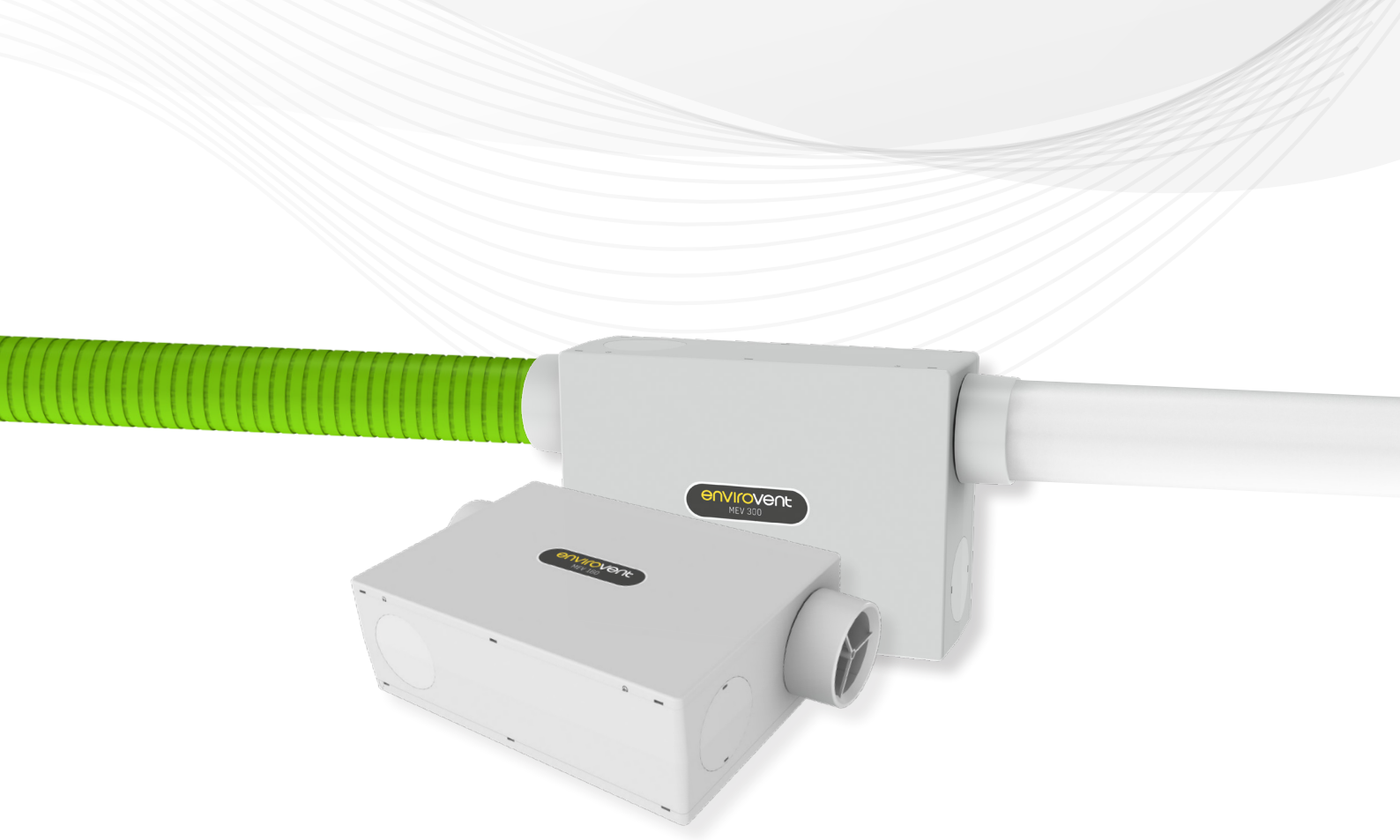
Ø125



|                          | MEV 160  | MEV 300   |
|--------------------------|--|---|
| Max Air Flow Rate        | 75 l/s (270m <sup>3</sup> /H)                          | 103 l/s (370m <sup>3</sup> /H)                          |
| Fan Type                 | 175mm Backward Curved                                  | 190mm Backward Curved                                   |
| Specific Fan Power       | 0.19 W/L/S (Measured At K+1)                           | 0.19 W/L/S (Measured At K+1)                            |
| Electrical Supply        | 230v Single Phase 50hz                                 | 230v Single Phase 50hz                                  |
| Max Power Consumption    | 43.5W  | 69.5W   |
| Ingress Protection Class | IPX2   | IPX2  |
| Spigot Size              | 125mm/75mm Fast Track/90mm Fast Track using an adaptor | 1125mm/75mm Fast Track/90mm Fast Track using an adaptor |
| Dimensions               | 480mm X 340mm X 161mm                                  | 480mm X 340mm X 161mm                                   |
| Weight                   | 5kg  | 5kg   |
| Erp Rating               | B  | B   |

# Options & Ancillaries

| CODE(S)                | DESCRIPTION                              |
|------------------------|--|
| 1DIFEXTRACT125WH       | 125mm white extract valve                |
| 1DIFEXTRACT150WH       | 150mm white extract valve                |
| SWH-W-MEV              | Spare wireless remote control            |
| PACKRIGID125           | 125mm rigid duct spigot x1               |
| PACKFASTTRACK-PLUS     | Fast Track Plus Adaptors x3              |
| PACKFASTTRACK-PLUS-ANC | Fast Track Plus Spigot Connection Kit x1 |
| 1AD-DBOX-90MM          | Adaptor For Distribution Box             |
| AIR-CO2                | AirSens® CO2                             |
| AIR-VOC                | AirSens® VOC                             |
| AIR-RH                 | AirSens® RH                              |
| AIR-CO2-RF             | AirSens® CO2 - Wireless                  |
| AIR-VOC-RF             | AirSens® VOC - Wireless                  |
| AIR-RH-RF              | AirSens® RH - Wireless                   |
| AIR-REC-RF             | AirSens® Wireless Receiver               |



**envirovent**

Leading Manufacturer & Supplier of Innovative Sustainable Ventilation Products

EnviroVent Ltd, Harrogate West Business Park, Unit 1 Bardner Bank, Killinghall, Harrogate HG3 2SP

T 01423 810 810 / E [info@envirovent.com](mailto:info@envirovent.com) / W [www.envirovent.com](http://www.envirovent.com)

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