



## MEV Spider

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### Detailed description

Low-energy, continuous mechanical extract ventilation system (MEV). Designed with multiple extract points to draw moisture-laden air out of wet rooms and to minimize the migration of humidity to other rooms in accordance with current Building Regulations.

### Features and benefits:

- Fitted with Ultra Low Watt EC motor technology, which operates continuously at a pre-set 'background' rate.
- Easy to install due to compact size and spigot configuration.
- The push-button commissioning pad enables the airflow rate to be selected quickly.
- Includes nine spigot connection points and three 100 mm-diameter spigots for maximum versatility.
- Low running noise.
- High efficiency centrifugal fan.
- Intelligent humidity tracking via IntelliTrac® Technology, which provides good indoor air quality with no user intervention. As humidity rises and falls, the motor speed rises and falls in correlation. This controls condensation and reduces the time when the system operates on maximum speed, helping to save energy.
- Can be installed vertically or horizontally onto floors, ceilings and walls.
- Minimal maintenance required.
- Low carbon footprint.
- Optional remote-controlled boost switch, offering ultimate control to the user.
- Unobtrusive and suitable for restricted spaces.
- SAP Appendix Q-eligible and EST Best Practice Performance-compliant.
- ErP B rated.
- Five-year guarantee.

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### Applications:

The extract unit is centrally located in a cupboard or loft, with ducts running from the unit to the kitchen, bathroom and en-suite (with up to six wet zones depending on system resistance). Suitable for use in:

- Dwellings (up to 220 m³).
- Apartments (up to 180 m³).
- Communal residences.

### Approvals:

EnviroVent Ltd



- CE-Marked.
- SAP Appendix Q tested and Energy Savings Best Practice Performance Compliant.

Conforms with:

- Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU.
- Commission Regulations (EU) No 1253/2014 and 1254/2014.
- ErP Directive 2009/125/EC with regard to eco-design requirements for ventilation units.
- RoHS Directive 2011/65/EU.

The following harmonized standards and technical specifications have been applied:

- EN 60335-1:2012 + AC:2014; EN 60335-2-80:2003 + A1:2004 + A2:2009.
- EN 61000-6-1:2007; EN 61000-6-3:2007 + A1:2011; EN 62233:2008; EN 62311:2008.

## Product guidance - As Standard

### Size:

198 x 440 x 357 mm.

### Material:

- Unit: Durable white plastic.
- Lid: Acrylonitrile butadiene styrene (ABS).

### Technical characteristics:

- Intended use: Residential (RVU).
- Product type: Uni-directional (UVU).
- Unit type: Ducted.
- Drive type: Variable speed (VSD).
- Thermal efficiency of heat recovery: 0%.
- Maximum flow rate: 106.11 L/s, 382 m³/h, 0.1061 m³/s.
- Sound power level: 61.8 Lwa.
- Reference flow rate: 79.17 L/s, 285 m³/h, 0.0792 m³/s.
- Reference pressure difference: 50 Pa.
- Specific power input (SPI): 0.1020 W/(m³/h).
- External leakage: 14%.
- Specific fan power (kitchen and additional wet rooms): One wet room: 0.36 W/L/s; two wet rooms: 0.32 W/L/s; three wet rooms: 0.33 W/L/s; four wet rooms: 0.32 W/L/s; five wet rooms: 0.35 W/L/s; six wet rooms: 0.36 W/L/s.
- Total flow rate (kitchen and additional wet rooms): One wet room: 21 L/s; two wet rooms: 29 L/s; three wet rooms: 37 L/s; four wet rooms: 45 L/s; five wet rooms: 53 L/s; six wet rooms: 61 L/s.



- Specific energy consumption: Average: -26.95 kWh/(m<sup>2</sup>.a); warm: -11.45 kWh/(m<sup>2</sup>.a); cold: -54.01 kWh/(m<sup>2</sup>.a).
- Specific energy consumption class: Average: Class B; warm: Class E; cold: Class A+.
- Annual energy consumption: 0.54 kWh/a.
- Annual heating saved: Average: 28.30 kWh/a; warm: 22.16 kWh/a; cold: 95.87 kWh/a.
- Controls: Typology: Local demand control; factor: 0.65.

## Product specification

### Manufacturer

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**Product reference** MEVS-H-R - Hard-wired unit with humidity tracker.  
MEVS-WH-R - Standard wireless unit with humidity tracker and remote-controlled boost switch.

**Accessories** [Not required]  
[1DIF EXTRACT 100] - White powder-coated metal ceiling valve.  
[1RD 100 X 3 M] - 100 mm diameter rigid ducting (3 m length).  
[1RD INSFLEX 125] - Flexible insulated hose ducting.  
[EV-SC125PF] - System 125 round pipe to fitting (male to female).  
[EV-SC125PP] - System 125 round pipe to fitting (male to male).