

envirovent®

SABIK 350 & 500

High Efficiency Whole House Heat Recovery Systems



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About

The Sabik 350 and 500 series have been designed to provide balanced and sustainable ventilation whilst incorporating modular features and user friendly controllability resulting in high efficiency, market leading ventilation systems.

The residential units have significant airflow capacity of up to 414m³hr* and 601m³hr* respectively, and are suitable for handling airflow directions and drain on site to give ultimate flexibility when it comes to ducting configurations.

- Delivering up to 91% thermal efficiency
- Optional constant flow control and preheater
- Minimal noise levels
- Mechanical Summer bypass as standard
- Passivhaus Certified**
- Frost protection
- Ideal for larger properties
- Ability to hand the unit on site to suit ducting configurations
- ISO Coarse 65% filters as standard with optional ePM1 70%
- User friendly with modular unit controllability
- 2 year warranty



Modularity

The Sabik 350 and 500 systems are modular, and incorporate key features as standard such as an integrated relative humidity sensor, touchscreen controller and frost protection. Optional features include a pre-heater, Volatile Organic Compounds (VOC) sensor, wall spacer bracket for tight installations, and constant flow module which gives ultimate versatility and reinforces the units as an all-round ventilation solution.

These optional features are able to be easily installed via the control panel on the units - see the installation guide for further information.

Summer Bypass & Frost Protection

The Sabik 350 and 500 units come with a mechanical summer bypass as standard. The bypass contributes to an improved comfort level in summer and can be controlled manually or automatically. Standard frost protection is offered through airflow control, an optional preheater for intelligent frost protection can also be utilised if required, or for Passivhaus compliance.



Constant Flow Control

An optional extra and part of the range of modular features. This constant flow, also known as 'constant volume' ensures that the unit remains as efficient as possible, as well as the ease of commissioning the systems. This therefore saves on installation costs, whilst ensuring that the unit reaches its full performance potential.

Low Noise Levels

The sound levels on the systems are as low as possible. The units provide reduced air leakage, high thermal insulation and therefore sound levels are minimised as a result.

Control Options

The Sabik 350 and 500 can be controlled through the touch screen controller or automatically with the relative humidity sensor. Optional external controls such as AirSens® can also be installed.



Passivhaus Certified



The Sabik 350 and 500 units are Passivhaus certified providing that the modular preheater and enhanced ePM1 70% filter are installed. The Passivhaus concept is the only internationally recognised, performance-based energy standard in construction.

Easy Maintenance & Commissioning

The units come as standard with two ISO Coarse 65% filters that can be easily changed. A high performance fine particle filter is also available as an optional extra, and required if building to the Passivhaus Standard. This enhanced filter is ideal for people with respiratory conditions and allergies.

The unit has flexible commissioning methods to ensure the utmost ease when it comes to setting the system airflows including the use of the modular constant flow control.



Constant Flow Control

Features & Benefits



Just some of the reasons why you should choose the Sabik 350 & 500

Filter replacement indicator

Automatic filter change alert



Constant Flow Module[†]

Keeps flow constant, adapting to the installation & to the condition of the filters



Temperature & Humidity Control

Takes outdoor & indoor conditions into account



VOC Sensor Module[†]

Automatic adjustment of the flow according to the indoor air quality



Automatic or Manual Bypass

Energy saving with free cooling when the outdoor conditions permit so



Pre-Heating Module[†]

Ensures that the unit continues to operate even in colder temperatures



Passivhaus Certified**

Internationally recognised, performance-based energy standard in construction



Sensor Options

The Sabik 350 and 500 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.

[†]in free air. ^{**}requires enhanced filter grade & preheater for compliance. [†]optional modular features.

Annual Running Costs

Please scan our QR code to see the **annual running costs** of this product.



Or visit:
[envirovent.com/
annual-running-costs](http://envirovent.com/annual-running-costs)

Technical Data

| | |
|---|--|
| Ventilation capacity at 100Pa (m³/h) | Sabik 350 - Max 375 Sabik 500 - Max 550 |
| Rated Power [W] at maximum airflow at 100Pa | Sabik 350 - 150W Sabik 500 - 265W |
| Dimensions Duct Connection (mm) | Sabik 350 - Ø150 Sabik 500 - Ø180 |
| Weights | 45kg & 56kg |
| Temperature efficiency | Sabik 350 - Up to 91% Sabik 500 - Up to 85% |
| Ability to hand the unit on site | ✓ |
| Mechanical bypass | ✓ |
| Frost Protection | ✓ |
| Relative humidity sensor as standard | ✓ |

SAP Appendix Q Performance

| Exhaust Terminal Configuration - Kitchen + Additional Wet Rooms | Specific Fan Power (W/l/s) | | Heat Recovery Efficiency (%) | |
|---|----------------------------|-------|------------------------------|-------|
| | SK350 | SK500 | SK350 | SK500 |
| Kitchen + 1 additional wet room | 0.68 | 0.77 | 91 | 89 |
| Kitchen + 2 additional wet rooms | 0.65 | 0.70 | 90 | 89 |
| Kitchen + 3 additional wet rooms | 0.71 | 0.73 | 89 | 87 |
| Kitchen + 4 additional wet rooms | 0.84 | 0.79 | 89 | 86 |
| Kitchen + 5 additional wet rooms | 0.94 | 0.88 | 88 | 85 |
| Kitchen + 6 additional wet rooms | 1.10 | 1.02 | 87 | 84 |
| Kitchen + 7 additional wet rooms | - | 1.19 | - | 85 |

Options & Ancillaries

| DESCRIPTION | CODE(S) | |
|--|--------------------|--------------------|
| | Sabik 350 | Sabik 500 |
| 2x ISO Coarse 65% Filters | FILTER-SK350-G4 | FILTER-SK500-G4 |
| 1x ISO Coarse 65% Filter, 1x ePM1 70% Filter | FILTER-SK350-G4/F7 | FILTER-SK500-G4/F7 |
| Modular Preheater | SABIK350-PH | SABIK500-PH |
| Constant Flow Module | SABIK-CV | |
| VOC Sensor | SABIK-VOC | |
| Wall Spacer Bracket | SABIK-BRACKET | |
| Condensate Kit | KITCONDENSATESK | |
| 4x 180 - 150mm metal reducers | - | KITREDUCERBK |

Technical Specification

Product

The Sabik 350 and 500 units are highly efficient, whole house heat recovery systems.

Application Suitability

The Sabik 350 and 500 units are ideal for residential properties to provide a constant supply of clean, tempered air and maintain correct humidity levels.

With maximum airflow capacity of 414 m³/h and 601 m³/hr respectively, the units are available in left-handed and right-handed versions (configurable on installation) with a range of options for connecting the ducts. The units are also Passivhaus certified (and include optional extras).

Controls

The unit is controlled with the supplied wired touch screen controller. Or alternatively, using the built in programmable controller, the relative humidity sensor, or optional external VOC/CO2 sensors.

Motor

The unit incorporates Ultra Low Watt EC motor technology to provide the lowest possible SFP and unit running costs, with sealed for life ball bearings and designed to operate continuously at a pre-set 'background' rate.

Fan

EC motors power the centrifugal backward curved fan impellers.

Heat Exchange Cell

The heat exchange cell is a high efficiency counter flow cell.

Summer Bypass & Frost Protection

The Sabik 350 and 500 units incorporate a mechanical summer bypass. The bypass contributes to an improved comfort level in summer and is controlled automatically by measuring indoor and outdoor temperatures.

Intelligent frost protection can be provided through the optional preheater to guarantee high efficiency, even at extremely low temperatures. This energy-efficient frost protection helps to achieve significant energy savings per year.

Constant Flow Control (Optional)

The 'constant flow' technology ensures maximum efficiency and that the commissioned airflow rate is always delivered despite any resistance encountered in the ductwork or filters. The 'constant flow control' system also enables commissioning to be carried out much quicker and more easily, saving on installation costs.

Filtration

The unit shall incorporate 2 x ISO Coarse 65% [G4] filters with the option of an ePM1 70% [F7] supply filter.

Servicing & Maintenance

Supply and extract filters shall be located within the unit and exchanged annually or when required based upon unit location.

Warranty

The unit shall be covered by a 2 year warranty subject to the specified maintenance and servicing.

Installation

A full installation guide is enclosed with all products; or sent separately in advance if required. The unit is capable of being wall mounted with the optional wall spacer bracket if required. The unit is suitable for installation in a utility room or cupboard space. The Sabik 350 and 500 incorporates Ø150mm and Ø180mm extract and supply spigots respectively.

Accreditation

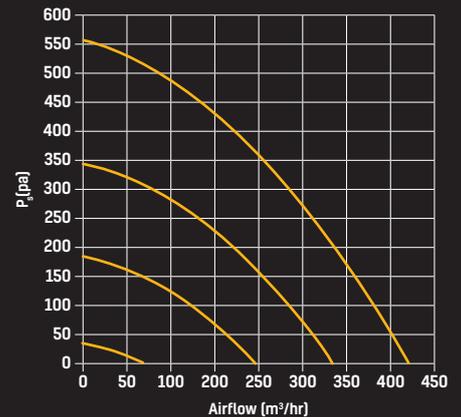
SAP PCDB Listed.

Conforms to the requirements of the UK Building Regulations and the Technical Standards for Ventilation.

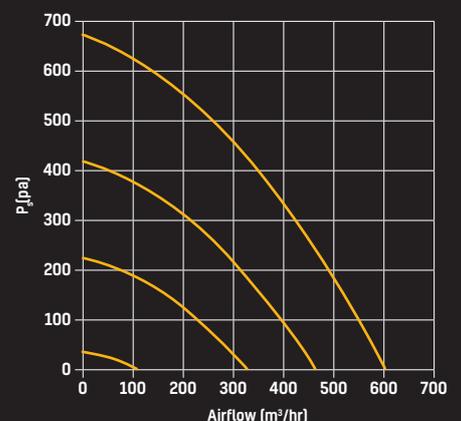
Conforms to requirements of the EC council directives relating to Electromagnetic Compatibility and Electrical Safety (LDV and EMC).

CE and UKCA Marked.

Performance Curves SABIK 350



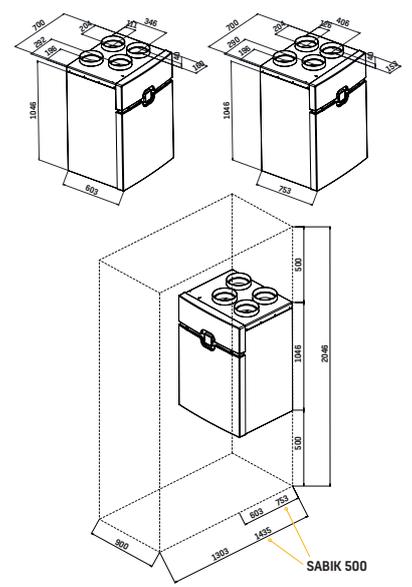
SABIK 500



Dimensions (mm)

SABIK 350

SABIK 500



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