

TECHNICAL DATA SHEET SABIK 500 | High Efficiency Whole House Heat Recovery System

A



KEY FEATURES

- ✓ Low Specific Fan Power (SFP) down to 0.70 W/l/s and high thermal efficiency up to 85%
- ✓ Integral mechanical bypass - automatic or manual
- ✓ Frost protection
- ✓ Integral humidity sensor
- ✓ Programmable
- ✓ On-unit configuration for handling
- ✓ 2 year warranty
- ✓ Variety of optional extras

PRODUCT

The Sabik 500 is a high efficiency, whole house heat recovery system.

APPLICATION SUITABILITY

The Sabik 500 is ideal for residential properties to provide a constant supply of clean, tempered air and maintain stable humidity levels. With maximum airflow capacity of 601 m³/hr, the unit is also able to be handed on site for ultimate flexibility. Passivhaus certified [with optional extras].

PRODUCT CHARACTERISTICS DATABASE (PCDB)

Exhaust Terminal Configuration	Specific Fan Power (W/l/s)	Heat Recovery Efficiency (%)
Kitchen + 1 wet room	0.77	84
Kitchen + 2 wet rooms	0.70	84
Kitchen + 3 wet rooms	0.73	85
Kitchen + 4 wet rooms	0.79	84
Kitchen + 5 wet rooms	0.88	85
Kitchen + 6 wet rooms	1.02	85
Kitchen + 7 wet rooms	1.19	85

PERFORMANCE

Maximum Flow Rate	Maximum Flow Rate at 100Pa
Max 601 m ³ /hr	550 m ³ /hr at 100 Pa

TECHNICAL SPECIFICATIONS

Maximum Flow Rate	167 l/s (601 m ³ /hr)
Heat Exchanger	Counter Flow (Plastic)
Efficiency	Up to 85%
Fans	Backward Curved
Specific Fan Power	Down to 0.70 W/l/s
Electrical Supply	230V / 1PH / 50Hz
Max Power Consumption	265W
Protection Class	IP21
Supply Filter	ISO Coarse 65%, Optional ePM1 70%
Extract Filter	ISO Coarse 65%
Spigot (mm)	180mm
Dimensions (mm)	700 X 1046 X 753
Weight	56kg

SAP 2012

TECHNICAL DATA SHEET

SABIK 500 | High Efficiency Whole House Heat Recovery System

SOUND POWER

% of Max Flow	Airflow	dB(A) @ 3m hemispherical			dB(A) @ 3m spherical
		Duct 'from dwelling'	Duct 'to dwelling'	Casing Breakout	Casing Breakout
25%	39l/s @ 27Pa	21.36	14.76	20.66	17.66
35%	51l/s @ 47Pa	28.86	18.16	23.26	20.26
64%	94l/s @ 159Pa	40.66	37.06	35.26	32.26
84%	123l/s @ 270Pa	48.36	38.76	40.16	37.16

INSTALLATION

A full installation guide is enclosed with all products; or can be sent separately in advance if required. The unit is capable of being wall mounted with the wall mounting kit. The Sabik 500 incorporates Ø180mm extract and supply spigots.

MOTOR

The unit incorporates high efficiency EC motors to provide the lowest possible SFP and unit running costs with sealed for life ball bearings and is 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.

SERVICING / MAINTENANCE

Supply and extract filters are located within the unit and needs to be exchanged annually. The unit incorporates a heat exchange cell for life.

FILTRATION

The unit incorporates 2 x ISO Coarse 65% filters with the option of an ePM1 70% supply filter.

WARRANTY

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

SUMMER BYPASS & FROST PROTECTION

The Sabik 500 unit incorporates 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. The unit provides frost protection via an airflow imbalance should a preheater not be installed.

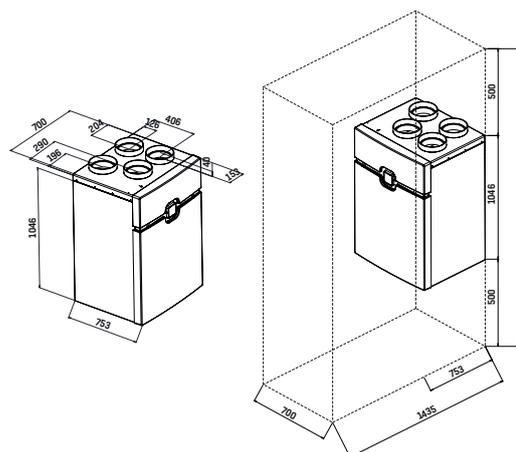
CONSTANT FLOW CONTROL (OPTIONAL)

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.

CONTROLS

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

SIZE



PERFORMANCE CURVE

