

Energysaver™ Sensamatic Kitchen Fan SMES150



Energysaver™ Sensamatic, fully automatic 150mm (6") axial kitchen fan, with integral microprocessor controlled contamination proof humidity sensor, together with 240V to 12V Switching Power Supply situated within the fan – no transformer required.

The energy efficient, ball bearing 12V DC motor only requires 8.4 watts of power when running, resulting in a long and trouble free operational life whilst reducing energy costs to the Resident.

Under the control of a microprocessor, the sensor monitors continuously the Relative Humidity (RH) in the room. If there is a sudden rise in RH the sensor anticipates hitting the set point and activates the fan before it is reached. After the fan has reduced the RH to about 5% below the preset set point, the fan switches off. When the fan is running under sensor and microprocessor control the L.E.D. flashes.

Special Features

Motor

- Energy efficient motor – only 8.4 watts
- 12V DC ball bearing motor, proven long life performance
- No transformer required
- Impedence protection – motor cannot be burnt out if fan impeller is fouled.
- Standard performance meets Building Regulations
- Speed can be adjusted to increase duty rate to over 350m³ per hour

Humidity Sensor

- Sensor head guaranteed for life
- Contamination proof
- Microprocessor controlled
- Anticipatory control for set point
- Night time setback

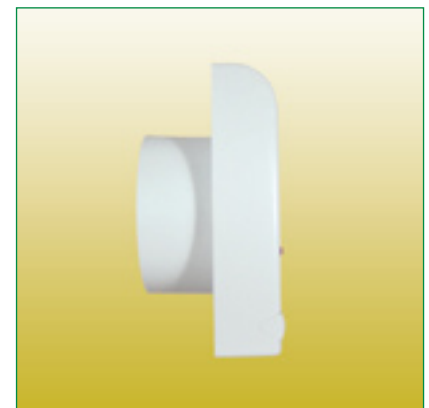
General

- Extract Rate 230m³ per hour (64 ltrs/sec)
- Automatic silent operating integral back draught shutter mechanism
- LED function display
- Manually operated pull cord overrun on facility
- A remote version of the humidity sensor is available

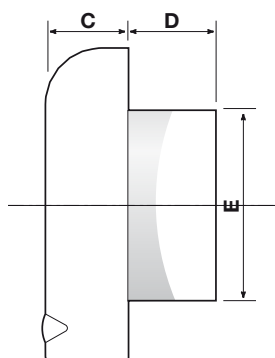
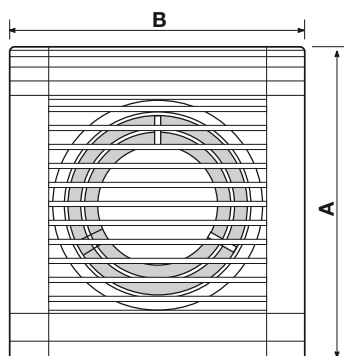


Benefits

- 5 Year Guarantee
- Lower energy cost for tenant in keeping with Government Directive regarding energy efficient electrical appliances in Social Housing
- No maintenance required



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SPECIFICATION KEY FACTS

- Energysaver fan
- Impedance protected 12 volt 8.4 watt DC ball bearing motor
- Silent integral mechanical back-draught shutter
- Anticipatory control
- Contamination proof sensor head with lifetime guarantee
- Integral adjustable speed control
- 5 year guarantee as standard
- Red/Green diagnostic LED

ORDER CODES

SMES150	Fan with integral humidity sensor
SMES150/REM	Kit comprising fan and separate humidity sensor
W150	Wall fixing kit
G150	Window fixing kit
C150	Ceiling fixing kit

Construction

Formed from a high quality impact resistant white, thermoplastic material. The silent operation shutters open automatically when the fan switches on, and again, close automatically when fan switches off to prevent back draught through the fan when not operating.

Motor

A 12V DC brushless, electrically commutated sealed for life lubricated ball bearing motor. The motor incorporates an overload protection device and conforms to EEC Directive 78-889 for radio interference. The motor will operate in temperatures up to 40°C. The fan conforms to BS3456, BS800 and BS5490. The incoming AC 240V supply is converted to 12V DC by an integral switching power supply. The 12V DC motor, which consumes only 8.4 watts, requires no separate transformer.

Installation

For best effect, the extract fan should be fitted at a minimum of 2 metres from floor level (where possible), but not closer than one metre to a major moisture producing source. The unit should not be fitted immediately above a cooker – a remote sensor should be used in this application, order code SMES150/REM/W150.

Care must be taken if the fan is fitted in a room containing a fuel burning device without a balanced flue. There must be sufficient air replacement to prevent 'spillage'. In many instances, a passive air vent or an air brick, may need to be fitted to other cooler rooms within the property in order to promote a good airflow throughout the dwelling.

Fitting Kits available:

WALL: Comprises wall sleeve and external grille (available in brown, terracotta, buff or white)

WINDOW: Mounting unit suitable for S/G or D/G windows.

(for greater efficiency we would recommend that a fan and remote sensor configuration of this model be used for this application, order code SMES150/REM/W150)

CEILING: Ceiling ring available for fitting into plasterboard. 150mm dia. ducting will be required. We only recommend that this axial fan be ducted a maximum 1.5 metres. For greater distances, a centrifugal or mixed flow type unit would be more appropriate. (see Centramatic and remote sensors data sheets)

FAN DIMENSIONS

Casing (mm)	A	B	C	D	E
	230	200	52	63	148
Hole diameters (mm)					
Walls		158			
Ceilings		158			
Windows		188			

FAN TECHNICAL DATA

Insulation	Double
Voltage	240v (integral switching power supply)
Fan motor	12v DC 8.4 watts
Extract capacity	230m ³ /h (68 ltrs/sec) – integral adjustment facility allows increase to max. 350m ³ /h
Pressure mm H ₂ O	5.1 (max)
dB (A)	45

HUMIDITY SENSOR TECHNICAL DATA

Set point (at manufacture)	67% RH at 20°C (in conjunction with anticipatory control)
Night time setback	67% RH at 20°C – 77% RH at 10°C

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