

# VA100 SELV 12.® *Safety Extra Low Voltage*



## Shower/Bathroom fan



### FAQ's Answered

- Can be installed at any angle.
- If ceiling mounted a max. of 3m ducting should be used with a condensation trap.
- The maximum length of 1.5mm<sup>2</sup> cable between Transformer and fan is 8 metres.
- Integral humidistat and timer versions available.
- Designed for window, wall or ceiling mounting.

Designed for the safe use in the spray area of a bathroom or shower and within reach of a person using a bath or shower.

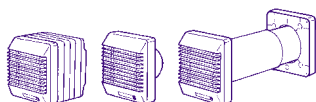
Provides the necessary 15 l/s (54m<sup>3</sup>/h) to comply with Building Regulation requirements for average domestic bathrooms and WC's.

With electric shutter.

Fan IP57 rated.

SELV Transformer to BS EN 60 742, IP44 rated.

Window, wall or panel mounting.



The World's original SELV fan providing extra safety and peace of mind in domestic shower and bathrooms. The VA100 SELV12 from Vent-Axia is a 100mm axial extract fan which can be safely installed over or within reach of a bath or shower in bathrooms and WC's.

A range of fans with optional shutter, timer and humidity controlled versions to match application requirements precisely. The VA100 SELV12 meets the Building Regulation requirements of 15 l/s for bathrooms and WC's. Designed in a clean White finish and suitable for ambient temperatures up to +40°C the unit is fitted with Standard Thermal Overload Protection (S.T.O.P.).

### SAFETY EXTRA LOW VOLTAGE FAN (SELV)

Designed for areas where a fan has to be fitted over or within 0.6m of a bath or shower, the VA100 SELV fan can be safely installed within the spray area. The fan is rated IP57. Control is by mains safety isolating IP44 transformer unit with SELV output, which is sited away from any source of spray and out of reach of a person using a fixed bath or shower.

Vent-Axia SELV units have been independently tested in accordance with UK and European Safety Extra Low Voltage (SELV) and product requirements, and have as a result been granted BEAB approval based on CENELEC harmonised standards.

### PANEL MODEL

For discharging into ventilation shafts. It can also be used with up to 3 metres of rigid ducting. Performance 75m<sup>3</sup>/h, FID sound level 31dB(A).

### WINDOW MODEL

The VA100 window kit is designed to fit VA100 units in windows and fixing surfaces up to 40mm thick. The four spacers supplied are placed on the inside of the glass to give minimum exterior projection.

### WALL MODEL

The VA100 wall kit is a rigid telescopic wall sleeve for wall thicknesses from 255-360mm thick plus an outside grille set. For thinner walls the sleeves can be cut to fit.

### BEST PRACTICE

Sensors and auto mode controllers save energy by only switching the ventilation units on when needed and when the room is occupied.

To meet IEE Regulations timer models should be isolated using a 3 pole isolator.

Stock Ref. No. 56 35 18



## SAFETY EXTRA LOW VOLTAGE RANGE

### VA100SVL 12

IP57 rated fan with running light, complete with remote wall mounted transformer. BEAB Approved.

**Stock Ref. No. 25 81 10A**

### VA100SVX 12 (Shutter)

IP57 rated fan with thermo-electric shutter and running light, complete with remote wall mounted transformer. BEAB Approved.

**Stock Ref. No. 25 83 10A**

### VA100SVXT12 (Shutter/Timer)

IP57 rated fan with thermo electric shutter and running light, complete with remote mounted transformer with integral adjustable overrun timer.

**Stock Ref. No. 25 84 10A**

### VA100SVLH 12 (Humidity)\*

IP57 rated fan with running light, complete with remote wall mounted transformer. Integral Humidity Sensor with pullcord override. BEAB Approved.

**Stock Ref. No. 25 81 12B**

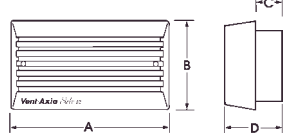
### VA100SVXH 12 (Shutter/Humidity)\*

IP57 rated fan with thermo-electric shutter and running light, complete with remote wall mounted transformer. Integral Humidity Sensor with pullcord override. BEAB Approved.

**Stock Ref. No. 25 83 12B**

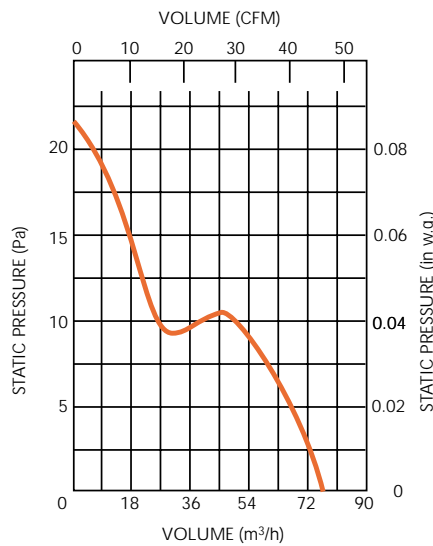
\* Where a VA100SV12 fan is installed directly in the splash area, we recommend VA100SVL12 or VA100SVX12 with an Ecotronic 12V Humidistat mounted outside the splash area to avoid saturation of the sensor.

#### TRANSFORMER



Use a plastic two gang mounting box of minimum 28mm depth. (MK 2142, Legrand 80848 or similar). DO NOT use a metal mounting box.

## PERFORMANCE

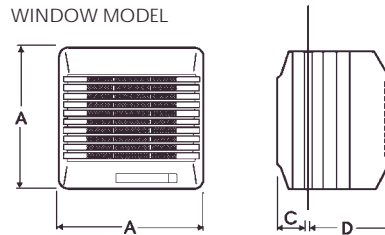


## DIMENSIONS

	A	B	C	D	E	F	G
Fan Dims.	155	100Ø	32	87	55	44	200
Transformer	148	87	19	49			

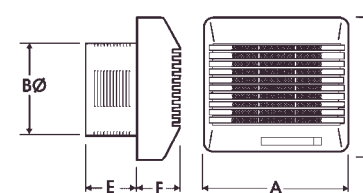
Weight 0.55 kg (220-240V)

#### WINDOW MODEL



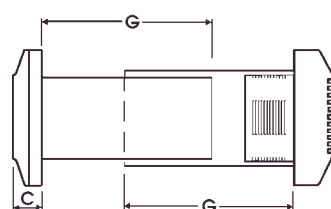
**Fixing hole diameter 105mmØ**

#### PANEL MODEL



**Fixing hole diameter 105mmØ**

#### WALL MODEL



**Fixing hole diameter 115mmØ**

## TYPICAL SPECIFICATION

Supply and install a VA100 SELV (Safety Extra Low Voltage) axial fan suitable for mounting in panels, walls or windows, with a thermally operated backdraught switch (SVL, SVXT, SVXH models), removable grille and fan running light as manufactured by Vent-Axia Ltd, Fleming Way, Crawley, West Sussex, RH10 2NN, Telephone: 01293 526062. When installed the fan should comply with the 16th Edition of IEE Regulations (BS7671, 1992) and on site guide for safety extra low voltage (SELV) operation. The transformer should be safety isolating to BS EN 60742. The fan should be suitable for the location as on site guide, reference 8.1.4 (IP57). The fan and controller should be BEAB approved.

The fan performance should meet the Building Regulation (Document F) requirements at 15 litres a second for bathrooms, and 6 l/s for toilets (15 minute timer overrun model for internal WC's). The motor should be manufactured with self aligning sleeve bearings and be fitted with Standard Thermal Overload Protection (S.T.O.P.). The motor should be insulated to Class B and designed to operate on SELV 12v/1/50Hz.

#### Operation

- VA100 SVX - via light switch
- VA100 SVL - via light switch
- VA100 SVXT - via light switch with timer overrun facility
- VA100 SVXH - via integral humidity sensor/transformer pullcord override
- VA100 SVLH\* - via integral humidity sensor/transformer pullcord override



Type	Stock Ref. No	Window Kit	White Grille Wall kit	Brown Grille Wall kit	Extract performance (panel model)		Watts	dB(A) @ 3m	Shutter
					m³/h	l/s			
VA100SVL12	25 81 10A	25 41 01	25 41 02	25 41 00	75	21	16	31	
VA100SVX12	25 83 10A	25 41 01	25 41 02	25 41 00	75	21	18	31	Thermo
VA100SVXT12	25 84 10A	25 41 01	25 41 02	25 41 00	75	21	20	31	Thermo
VA100SVLH12	25 81 12B	25 41 01	25 41 02	25 41 00	75	21	18	31	
VA100SVXH12	25 83 12B	25 41 01	25 41 02	25 41 00	75	21	20	31	Thermo

Manufacturers of some fluorescent/low energy lighting systems indicate that these can interfere with other electronic/timing circuits. For reliable operation of these circuits we recommend therefore that a tungsten filament light is used.

For Wiring Diagrams see pages 175.