

New Solo® Plus SELV

Centrifugal Extract Fan



Features and Benefits

- > Solo PLUS SELV is suitable for installation over or within reach of a shower or bath.
- > Built-in washable filter feature.
- > Meets the Building Regulation (Document F) requirements for domestic bathrooms and WC's.
- > Flush or surface mountable.
- > Adjustable rear or side exit spigot.
- > Extremely low sound levels.
- > IPX7 rated.
- > Transformer complies with BS EN 60742.

Long Life Ventilation

The new Solo Plus SELV range from Vent-Axia has been specially designed for use in the splash area of a bathroom in either through the wall and ducted applications, suitable for internal bathrooms, WC's and other small rooms. Finished in white, the Solo Plus SELV can be flush or surface mounted, with a 2-position 100mm circular spigot for rear entry or connecting to a vertical ducting system. The powerful centrifugal forward curved impeller allows installations using 100mm ducting in straight runs up to 50m, whilst still achieving 54m³/h as required by Document F of the current building regulations.

The new Solo Plus SELV has an adjustable boost speed which is set at installation variable between 57-100m³/h for boost/override operation to meet Building Regulations thus ensuring minimum energy usage and low sound levels. All models have an optional third speed for constant trickle ventilation (25m³/h), selectable at installation. Depending on the model the fan will switch from trickle (if selected) to boost via the pullcord/light switch/humidity sensor/PIR.

Four models are available offering features such as, Pullcord, Timer, Humidistat/Timer or PIR versions. All models can be wall; panel or ceiling mounted and can be connected to either circular, rectangular or Vent-Axia's System 25 flat ducting, which has been specially designed for concealed applications that can benefit from its ultra slim 25mm depth.

Cable entry is achieved through a rear entry grommet on the top right hand side of the unit. Enclosure of the electrical components is manufactured from flame retardant grade material. Supply voltage 220-240V/1/50Hz.

FAQ's Answered

Constant trickle option with variable speed boost.

T and HT models have a two minute delay timer with adjustable overrun timer.

Designed for panel/wall installations, flush or surface mounting either in a horizontal or vertical plane.

Available integral timer, humidistat timer or PIR controls.

Suitable for use with System 25 and System 50 ducting.

The maximum length of 0.75mm² cable between transformer and fan is 8 metres.

Safety Extra Low Voltage Fan (SELV)

Designed for areas where a fan has to be fitted over or within zone 1 in a room containing a fixed bath or shower according to IEE wiring regulations (BS 7671), the Solo Plus SELV fan can be safely installed within the spray area. The fan is rated IPX7. Control is by mains safety isolating transformer unit with 24V DC SELV output, which is sited away from any source of spray and out of reach of a person using a fixed bath or shower.

Controller Supply voltage 220-240V/1/50Hz. Output to fan SELV 24V DC.

Models

SOLO PLUS SELV P (Pullcord)

Flush or surface mountable. Control by pullcord or from light/remote switch. Constant trickle option. 2 Speed. Adjustable boost. SELV controller.

Stock Ref. No. 42 74 85

SOLO PLUS SELV T (Timer)

Flush or surface mountable. Control by room light switch or other remote switch. 2 Speed. Constant trickle option. Adjustable boost. Adjustable timer overrun. Delay on timer. SELV controller.

Stock Ref. No. 42 74 86

SOLO PLUS SELV HT (Humidistat-Timer)

Flush or surface mountable. Humidity controlled auto-variable 2 speed fan. Constant trickle option. Adjustable boost. Adjustable timer overrun. Delay on timer. Adjustable humidity sensor. SELV controller.

Stock Ref. No. 42 74 87

SOLO PLUS SELV TM (Timer/PIR)

Flush or surface mountable. Control by integral PIR detector. 2 Speed. Constant trickle option. Adjustable boost. PIR movement sensor. SELV controller.

Stock Ref. No. 42 74 88

Typical Specification

Supply and Install a Solo Plus SELV (Safety Extra Low Voltage) Centrifugal fan as supplied by Vent-Axia Ltd, Fleming Way, Crawley, West Sussex, RH10 9YX, Telephone: 01293 526062.

The fan should be suitable for flush or surface mounting, for wall, panel and ducted applications. The fan should have a 100mm spigot with integral backdraught shutter capable of changing its orientation to receive rear entry or vertical ducting. The fan should be able to offer constant trickle ventilation boosted by various integral sensors.

The transformer should be safety isolating to BS EN 60742. The fan should be rated to IPX7. The fan performance should meet the Building Regulation (Document F) requirements of 15 litres a second for bathrooms and 6 l/s for toilets with a 15 minute timer overrun.

The transformer should be installed either surface or recess mounted using the supplied surface mounting box or a plastic two gang mounting box.

The product should incorporate a 24 volt long life ball bearing motor. The motor should be insulated to Class B and fitted with Standard Thermal Overload Protection (S.T.O.P.) and designed to operate on SELV 24V DC.



Flush fitted model

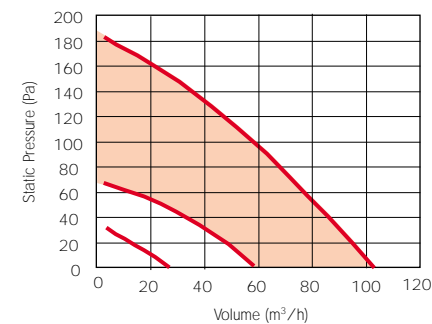


Surface mounted model



Washable removable filter

Performance



The shaded area indicates the variable speed boost range, adjustable at installation.



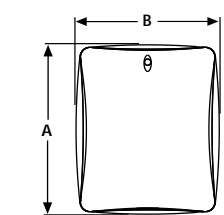
The 100mm circular spigot on the back of the Solo Plus offers 2-position ducting entries. The spigot is factory set for rear entry applications, but can be slid out, turned through 90° and refitted for vertical ducting installations.

Dimensions (mm)

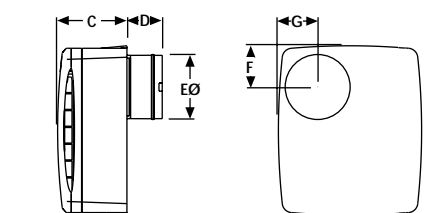
mm	A	B	C	D	EØ	F
	261	221	107	54.5	98	64
	G	H	I	J	K	L
	61	253	208	37	98	70

Solo + SELV Weight 3.3kg

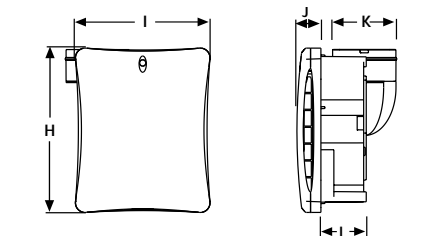
Front view



Surface Mount Side view



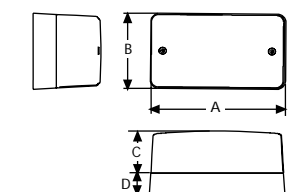
Panel Recess Mount



All versions can be installed either as recess or surface mounted as standard. No other accessories are required.

Transformer

mm	A	B	C	D
	147	88	50	27



For wiring diagrams see page 224.

Type	Stock Ref. No.	Extract Performance m ³ /h (l/s)			Watts			Sound dB(A) @ 3m	
		High	Med	Trickle	High	Med	Trickle	High Speed	Trickle
Solo Plus SELV P	42 74 85	100 (28)	57 (16)	25 (7)	29	9.3	6.9	42.8	23.7
Solo Plus SELV T	42 74 86	100 (28)	57 (16)	25 (7)	29	9.3	6.9	42.8	23.7
Solo Plus SELV HT	42 74 87	100 (28)	57 (16)	25 (7)	29	9.3	6.9	42.8	23.7
Solo Plus SELV TM	42 74 88	100 (28)	57 (16)	25 (7)	29	9.3	6.9	42.8	23.7

Tested at 240VAC @ 50Hz