

# Lo-Carbon Solo Plus/SELV

## Centrifugal Bathroom/Toilet Fan

### Features & Benefits

- **Lo-Carbon Solo Plus SELV is suitable for installation over or within reach of a shower or bath**
- **Reduces your carbon footprint**
- **Up to 70% energy saving**
- **Integral Lo-Carbon power supply**
- **Built-in washable filter feature**
- **Meets the Building Regulation (Document F) requirements for domestic bathrooms and toilets**
- **IPX4 rated - IPX7 rated (SELV)**
- **Flush or surface mountable**
- **Adjustable rear or side exit spigot**
- **Extremely low sound levels**
- **5 Year Motor Guarantee**
- **Suitable for wall, ceiling and panel mounting.**
- **SELV Models - Supplied with a remote transformer.**

### Long Life Ventilation

The Lo-Carbon Solo Plus range from Vent-Axia has been specially designed for through the wall and ducted applications, suitable for internal bathrooms, toilets and other small rooms. Finished in white, the Lo-Carbon Solo Plus 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 impeller allows installations using 100mm ducting in straight runs up to 50m, whilst still achieving 15l/s as required by Document F of the current Building Regulations.

Continuous running products, such as the Solo Plus installed in all wet areas of a dwelling are classed as a wholehouse ventilation system and therefore, only needs to move the amount of air as laid down in table 1.1b of Document F.

The Lo-Carbon Solo Plus has an adjustable boost speed which is set at installation variable between 12-25l/s for boost/override operation to meet Building Regulations thus ensuring minimum energy usage and low sound levels.

All models have an optional speed for constant trickle ventilation (12l/s), 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.

All models can be wall; panel or ceiling mounted and can be connected to either circular, rectangular or Vent-Axia's flat ducting. Enclosure of the electrical components is manufactured from flame retardant grade material. Supply voltage 220-240V/1/50Hz. Output to fan SELV 24V DC.

### 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 Lo-Carbon 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

#### Lo-Carbon Solo Plus/SELV P (Pullcord)

Flush or surface mountable. Control by Pullcord. 2 Speed. Constant trickle option. Adjustable boost. In-built Lo-Carbon controller.

Model	Stock Ref
P	427481A
SELV P	427485A

#### Lo-Carbon Solo Plus/SELV T (Timer)

Flush or surface mountable. Control by room light or switch. 2 Speed. Constant trickle option. Adjustable boost. Adjustable timer overrun. Delay on timer. In-built Lo-Carbon controller.

Model	Stock Ref
T	427482A
SELV T	427486A

#### Lo-Carbon Solo Plus/SELV HT (Humidistat-Timer)

Flush or surface mountable. Humidity controlled fan with override pullcord. Constant trickle option. Adjustable boost. Adjustable timer overrun. Delay on timer. Adjustable humidity sensor. In-built Lo-Carbon controller.

Model	Stock Ref
HT	427483A
SELV HT	427487A

#### Lo-Carbon Solo Plus/SELV TM (Timer/PIR)

Flush or surface mountable. Control by integral PIR detector. 2 Speed. Constant trickle option. Adjustable boost. In-built Lo-Carbon controller.

Model	Stock Ref
TM	427484A
SELV TM	427488A

#### Lo-Carbon Solo Plus Bezel

Used when flush mounting - reduces the need to make good

**Stock Ref**  
**437078**

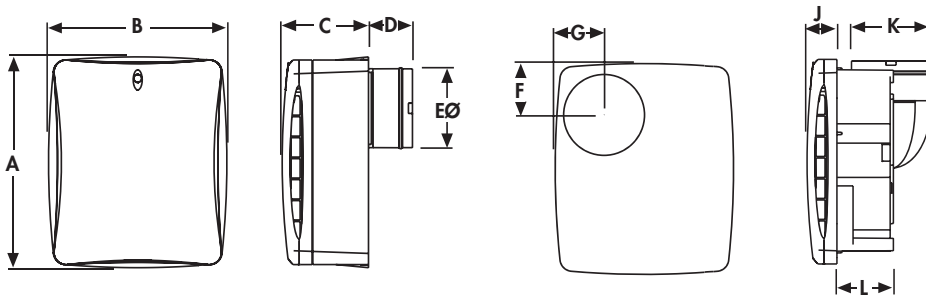
For wall/window fitting kit refer to Ducting Section

# Vent-Axia®

## Lo-Carbon Residential Fans



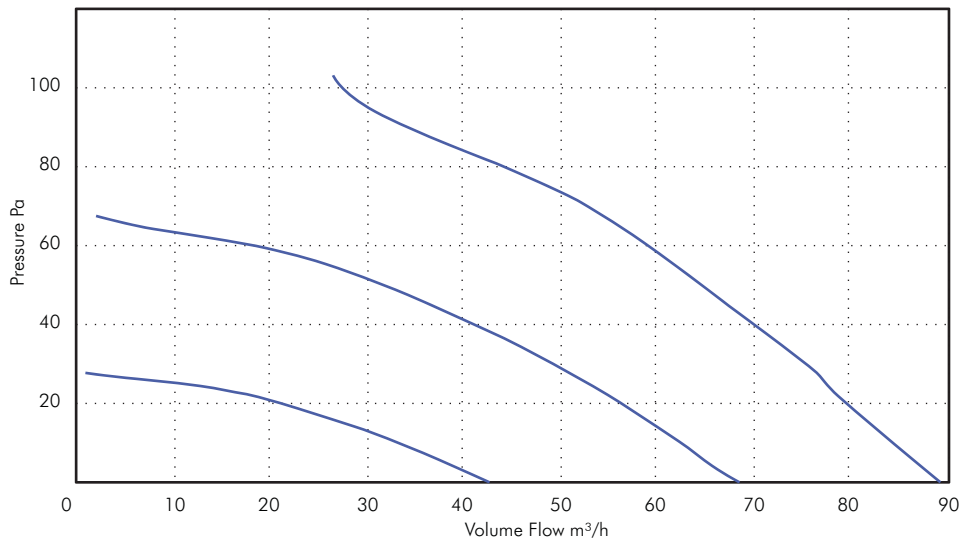
### Dimensions (mm)



A	B	C	D	EØ
261	221	107	54.5	98
F	G	H	I	J
64	61	37	98	70

SELV Transformer: (W x H x D) 147 x 88 x 50.  
Weight 2.2kg, SELV Weight 2.7kg.

### Performance Curve



### Performance Guide

Model	Extract Performance m³/h (l/s) - FID			Watts			Sound dB(A) @ 3m		
	Max Boost	Min Boost	Trickle	Max Boost	Min Boost	Trickle	Max Boost	Trickle	SFP @ 0Pa
Lo-Carbon Solo Plus P	90 (25)	69 (19)	43 (12)	15	8.6	4	46.4	24.6	0.43
Lo-Carbon Solo Plus T	90 (25)	69 (19)	43 (12)	15	8.6	4	46.4	24.6	0.43
Lo-Carbon Solo Plus HT	90 (25)	69 (19)	43 (12)	15	8.6	4	46.4	24.6	0.43
Lo-Carbon Solo Plus TM	90 (25)	69 (19)	43 (12)	15	8.6	4	46.4	24.6	0.43
Lo-Carbon Solo Plus SELV P	90 (25)	69 (19)	43 (12)	16	9.6	5	46.4	24.6	0.5
Lo-Carbon Solo Plus SELV T	90 (25)	69 (19)	43 (12)	16	9.6	5	46.4	24.6	0.5
Lo-Carbon Solo Plus SELV HT	90 (25)	69 (19)	43 (12)	16	9.6	5	46.4	24.6	0.5
Lo-Carbon Solo Plus SELV TM	90 (25)	69 (19)	43 (12)	16	9.6	5	46.4	24.6	0.5

Tested at 240VAC @ 50Hz