

Xpelair LoVolt LV100

Safety Extra Low Voltage 100mm axial extract fans



Key features

Application: **Domestic bathrooms, shower rooms and toilets. All models come complete with wall and window fitting kit**

Control options: **Pullcord, timer, humidistat & PIR**

Legislation: **Conforms to Building Regulations Part F1**

Hole diameter: **117mm (wall/ceiling)
125mm (window)
110mm (shaft/ducting)**



DX100 fan complete with universal mounting kit

The Range

Water, water everywhere and none in the right place!

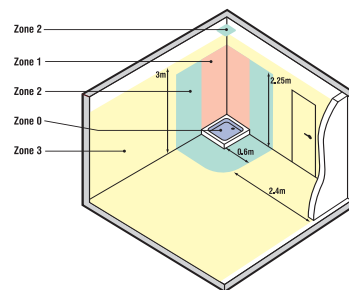
Whether you are showering, or leaving the kids splashing in the bath, water gets everywhere. Xpelair LV100 fans are 12V Safety Extra Low Voltage (SELV) units offering complete peace of mind. These fans are specifically designed to be installed directly in or over the splash area zone 1 in complete safety, with the SELV transformer sited out of reach of any person using the bath or shower.

The front fascia with its softly curved flowline grille design will blend into wall

or ceiling décor, whilst the shallow depth of the outlet spigot ensures compact window installation. All models come complete with a universal mounting kit suitable for wall, ceiling or window mounting (in single glazing up to 6mm) applications.

The kit includes an air operated backdraught shutter and all models are supplied with a 12V SELV transformer. Control options include integral pullcord and timer. Humidistat and PIR options offer automatic control.

The LV100 range conform to Building Regulations mechanical ventilation for toilets and bathrooms. The Xpelair SELV system exceeds the IP requirements for zone1 and zone 2 as defined by IEE wiring Regulations (16th Edition) BS 7671:2001. All models are IPX5 rated and BEAB approved, demonstrating accredited levels of safety. They are all suitable for 220-240V 50Hz mains operation, have lubricated for life motors, Class B insulation for operation in ambient temperatures up to 40°C and are fitted with a thermal cut out.



Ideal for splash areas

Select the right product for your application

	LV100	LV100PC	LV100T	LV100H	LV100HP	LV100PIR
Reference number	90845AW	90846AW	90847AW	90848AW	90849AW	90867AW
Remote switch (supplied separately)	■		■			
Integral pullcord		■			■	
Integral timer (adjustable from 2-20 mins)			■	■	■	■
Integral humidity sensor (50-90% RH)				■	■	
Passive infrared sensor						■
Extract performance (FID, m ³ /h)	85	85	85	85	85	85
Extract performance (FID, l/s)	24	24	24	24	24	24
Sound pressure level (dB(A)@3m)	37	37	37	37	37	37
Electrical power rating (W)	13	13	13	13	13	13
IP rating	IPX5	IPX5	IPX5	IPX5	IPX5	IPX5
Weight (kg)	2.2	2.2	2.2	2.2	2.2	2.2
Guarantee (years, UK)	3	3	3	3	3	3

Models

LV100

Ref. 90845AW

- Single speed 12V SELV axial unit and remote SELV transformer
- Operated by remote switch or sensor (in a bathroom normally a separate pullcord or lighting circuit)
- Includes universal mounting kit
- Colour: White

LV100PC

Ref. 90846AW

- Single speed 12V SELV axial unit with pullcord and remote SELV transformer
- Operated by integral pullcord
- Includes universal mounting kit
- Colour: White

LV100T

Ref. 90847AW

- Single speed 12V SELV axial unit with timer and remote SELV transformer
- Timer triggered by a remote switch, for example the lighting circuit. Timer variable from 2-20mins
- Includes universal mounting kit
- Colour: White

LV100H

Ref. 90848AW

- Single speed 12V SELV axial unit with humidistat and remote SELV transformer
- Automatic On/Off operation by integral

humidity sensor. Adjustable from 50-90% RH

- Adjustable timer function (2-20mins)
- Includes universal mounting kit
- Colour: White

LV100HP

Ref. 90849AW

- Single speed 12V SELV axial unit with humidistat, pullcord and remote SELV transformer
- Automatic On/Off operation by integral humidity sensor. Adjustable from 50-90% RH
- Adjustable timer function (2-20mins)
- Pullcord On feature overrides the auto-humidity sensor function
- Includes universal mounting kit
- Colour: White

LV100PIR

Ref. 90867AW

- Single speed 12V SELV axial unit with PIR detector and remote SELV transformer
- Automatic On/Off operation
- Integral passive infrared sensor
- Adjustable timer function (2-20mins)
- Includes universal mounting kit
- Colour: White

Typical Specifications on page 162.
Wiring Diagrams on page 181.
Domestic Accessories on page 56.

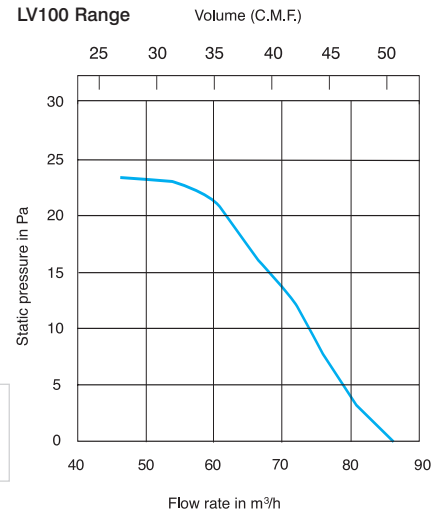
Controllers

LoVolt Remote Humidistat LVH

Ref. 21863AW

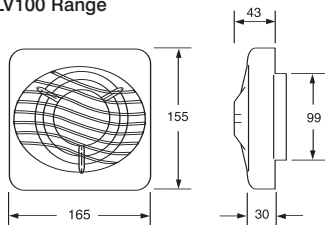
- Stand alone humidistat switches fan On/Off when the relative humidity reaches pre-set levels. This level is user adjustable to suit each application

Performance

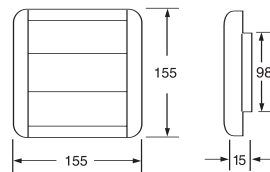


Dimensions (mm)

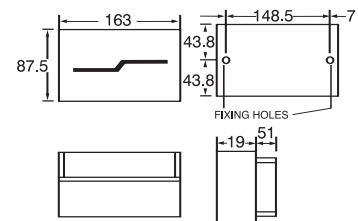
LV100 Range



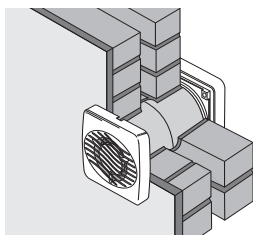
Back Draught Shutter



LV100 Transformer



Installation and Accessories

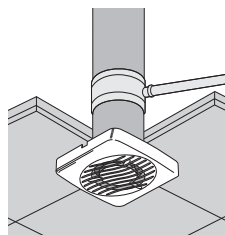


Wall Mounting using kit provided

Hole diameter: 117mm
Ducting size: 100mm

Alternative Accessories

Easy fit kit EFT
Ref. 90427AA
Air brick adaptor XAA
Ref. 89777AA

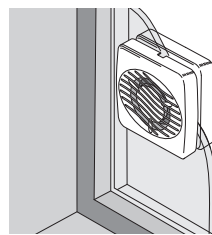


Ceiling Mounting

Hole diameter: 117mm
Ducting size: 100mm

Installation Accessories

Condensation trap XCT100
Ref. 89749AA
Vent cowl VC10
Ref. 89531AA

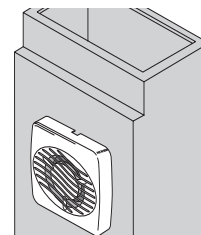


Window Mounting using kit provided

Hole diameter: 125mm
Max. glass thickness: 6mm

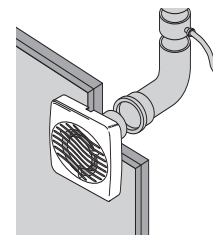
Installation Accessories

Double glazing kit DXDG
Ref. 07439AA



Ventilation Shaft Mounting

Hole diameter: 110mm



Ducting Application

Hole diameter: 110mm
Ducting size: 100mm

Installation Accessories

Condensation trap XCT100
Ref. 89749AA