

# Filterless Extract Fan

WC, Bathroom & Kitchen Fan



The EnviroVent Filterless Extract Fan is a major advancement in extract fan technology and has been designed to deliver the lowest possible maintenance, the lowest long term life-cycle costings and lowest performance/energy costs.

## Features

- Unique patented cartridge system
- Filterless technology
- Ultra Low Watt EC motor technology
- Patented helical power expansion chamber
- Maintenance free carcass
- Automatic vapour tracking function
- SELV model available
- On-going 5 year guarantee

## Benefits

- Fan for life
- Versatile and flexible
- Ideal for all applications
- Environmentally friendly
- Low maintenance
- Low life-cycle costings
- Spectacular performance
- Designed for the life of the building
- Easy to clean
- Whisper quiet running

## Lowest Maintenance

By 'designing out' the requirement for filtration and by ensuring a smooth uninterrupted passage of contaminated air through the fan scroll, from the dwelling to atmosphere, we are able to issue a sustainable five year, no quibble warranty. The unique protection afforded to the delicate internal components and electrical connections, together with use of the highest quality bearings are further quality measures which ensure that the EnviroVent Filterless Extract Fan will perform to specification well beyond its guarantee period.

## Low Long Term Life-Cycle Costs

All repair, maintenance and component replacement is carried out simply and quickly by exchanging the plug out/plug in central cartridge. By focusing on this rapid, internal unit exchange, all other considerations which normally have to be taken into account when a fan is exchanged become irrelevant. There are no redecoration issues or wiring alterations and replacement can be carried out – in seconds – by non-electrically qualified staff.

This 'when necessary' cartridge exchange – with re-worked components will ensure that the basic fan installation will remain intact throughout the repair cycle of the dwelling, eliminating the wasteful disposal of plastic and other non biodegradable material to landfill sites.

## Low Performance & Energy Costs

Using the advanced EnviroVent Ultra Low Watt Brushless EC Motor, the fan achieves exceptional levels of energy use and is up to 80% more efficient than a traditional AC fan.

## One Fan For All Situations

From simple through the wall installations to complex ducting/bend systems the EnviroVent Filterless Extract Fan will deliver the performance to meet building regulations and beyond.

This filterless fan concept has allowed EnviroVent to create a product, free from all of the inherent problems associated with traditional extract fans.

The in-line centrifugal impeller with its unique helical power expansion chamber enables the unit to achieve power with efficiency and quietness in the most compact unit ever.

## Number One Choice

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The Filterless Extract Fan is now the first choice by over 400 Public Sector Housing Authorities including major procurement groups such as GM Procure and Fusion21.

## Energy Saving Vapour Tracking System

Integral within the EnviroVent Filterless Extract Fan is the intelligent vapour tracking system which constantly monitors the humidity level. As humidity rises and falls the motor speed rises and falls in direct correlation.

This controls condensation quietly and efficiently, eliminating the problem of "nuisance running" and reducing the periods of time when the fan operates on maximum or boost duties to save energy.

## Easy Cleaning

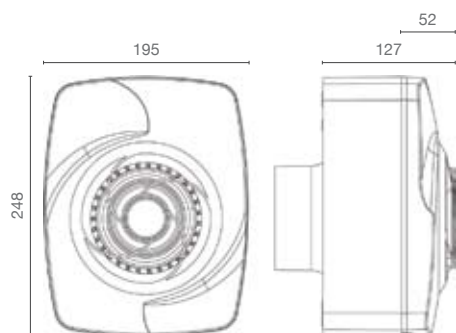
The fan has been designed for ease of cleaning and servicing in mind. That is why it can be carried out safely and quickly by the resident. There is a small magnet which deactivates the fan as soon as the front grille is removed. The impeller can then be cleaned in a sink or dishwasher and the fan scroll can be wiped clean with a cloth quickly and easily. Once the impeller is inserted again and the front grille replaced, the fan will continue to run as normal. No more unsightly fans with clogged filters.



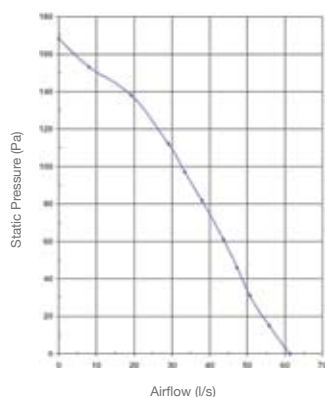
## Air Management

The spiral moulding matches the internal helix to ensure a smooth low turbulence passage of air from room to atmosphere.

## Dimensions (mm) ✓



## Performance Curve ✓



## Running Costs ✓

Annual running cost. All costs are based on an electricity cost of £0.15 per unit (kWh). These calculations must be used as a guide only.

Setting	Watts	Hours Run Per Day	Energy Cost p/a (£)	Total Energy Cost p/a (£)
Background trickle	1	22	1.20	1.97
Bathroom on boost	7	2	0.77	
Kitchen on boost	26	2	2.85	4.05

## Technical Specifications ✓

### Product

Innovative centrifugal extract fan unit which has been designed to deliver the lowest possible maintenance, the lowest long term life-cycle costs and the lowest energy costs.

### Application Suitability

Can be wall, ceiling, window or duct mounted to meet the Building Regulations – Part F. The one fan will ventilate any domestic kitchen, utility room or bathroom and is supplied in a 230V or SELV format.

### Performance & Sound Levels

Duty (l/s)	Power (W)	Sound dB(A) @ 3m
15	2	30.8
35	7	36
60	25	46.2

### Motor

Incorporates the Ultra Low Watt EC motor technology with sealed for life ball bearings designed to operate continuously at a pre-set 'background' rate.

### Fan

The fan is of filterless technology for ease of maintenance/cleaning. Forward curved centrifugal fan to provide increased airflow. The fan will allow a smooth uninterrupted flow of contaminated air through the fan scroll to atmosphere, without the need for filtration.

### Servicing / Maintenance

Achieved by removal/exchange/replacement of central cartridge. Rear carcass remains in position ensuring minimal disruption to occupier and no electrical competence or redecoration required. The fan can be cleaned by removing the quick release impeller.

### Guarantee

Covered by an on-going, repeatable 5 year warranty, subject to the completion of specified maintenance.

### Controls

Continuous running 2-speed\* filterless fan with integral variable speed humidity tracking system. The fan should have a pullcord override for odour control.

### Wiring


The fan is pre-wired with 1 metre of flexible cable to speed up installation. On the SELV version the fan is pre-wired with 5 metres of low voltage cable.

### Accreditations

BEAB  
CE

\*Low voltage version for the SELV

## Options & Ancillaries ✓

Product ●	Description ●	EnviroVent Code ●
	Remote Pullcord	EFHTCM-RC
	Remote Wall Switch	EFHTCM-WS
	Wall Mounted Kit	EFWAK
	Ceiling Mounted Kit	EFCMBR
	Window Fixing Kit	EFWIK
	In-line Fixing Kit	EFIL-WIK

### Order Codes ✓

EFHT2S-230V	230V
EFHT2S-SELV	SELV
EFHT2S-RC	230V for ceiling mounted (remote switch wire)
EFHT2S-SELV-RC	SELV for ceiling mounted (remote switch wire)
EFHT2S-IL	230V in-line version
EFHT2S-LED	230V with integral LED lighting
EFHT2S-SELV-LED	SELV with integral LED lighting
EFHT2S-230V-TEM	230V with time elapse meter
EFHT2S-SELV-TEM	SELV with time elapse meter
EFHT2S-W	230V wireless version
EFHT2S-SELV-W	SELV wireless version