



envirovent[®]

Because Air Matters

Filterless Extract Fan

WC, Bathroom + Kitchen

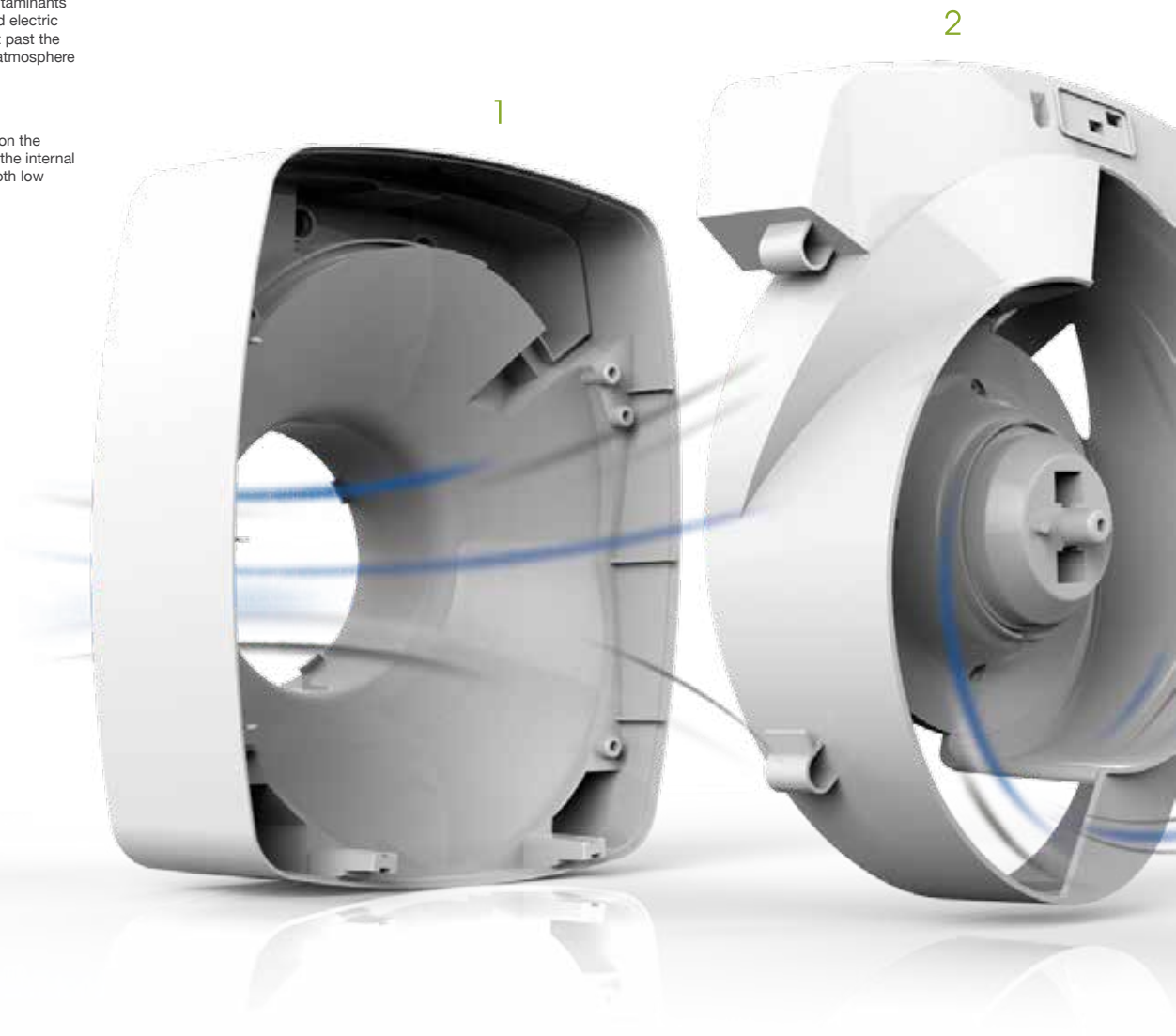


THE QUEEN'S AWARDS
FOR ENTERPRISE:
INNOVATION
2009

Cyclone Separation Technology

The patented technology behind the Filterless Extract Fan

- 1 Back carcass remains in-situ for the lifetime of the building
- 2 The unique patented helical expansion chamber enables cyclone separation to occur, forcing dust and contaminants away from the sealed electric motor and pushing it past the smooth surfaces to atmosphere
- 3 Easy clean impeller
- 4 The spiral moulding on the front cover matches the internal helix to allow a smooth low turbulence of air



Simply put, if a fan hasn't got cyclone separation then it isn't truly filterless.

EnviroVent's Filterless Extract Fans incorporate the latest patented Cyclone Separation Technology (No.0402041.8). As the contaminated air passes through the helical front grille it is centrifugally thrown outwards into two helical expansion chambers which allows the air to expand directly out to atmosphere. This unique process quietly takes most airborne contaminants with it out to atmosphere and negates the requirement for filters.

Compare this with domestic fans where the air takes a tortuous route through the fan causing high resistance, noise and contaminants to stick to the fan and clog the filter, motor and controls.

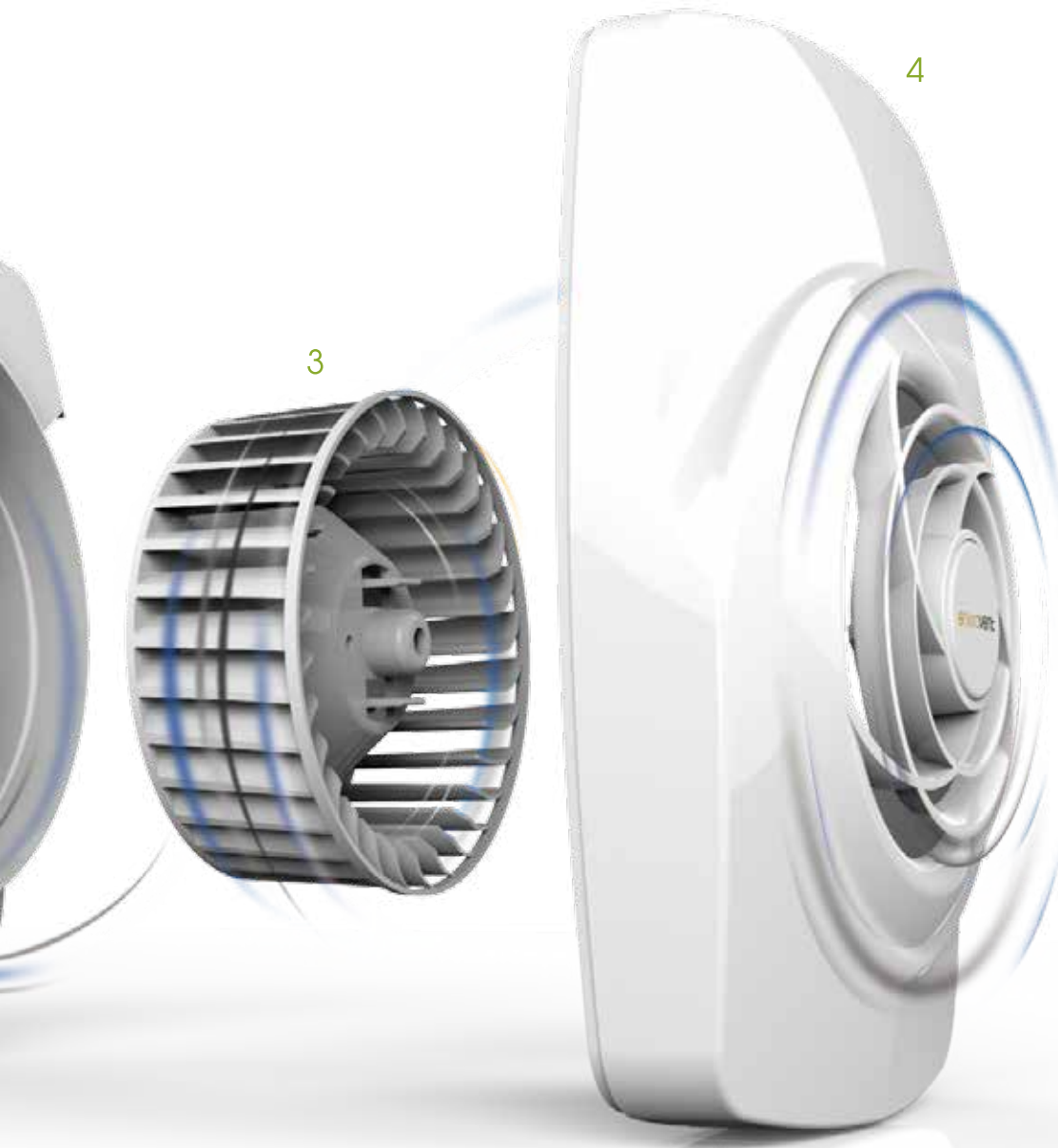


Scan the QR code to find out about the unique technology within our filterless fans...



Our Filterless Extract Fan has been tested vigorously on an accelerated life test. Scan the QR code to find out more...

accept no imitations



Traditional fans quickly become clogged up resulting in costly on-going maintenance issues and eventual disposal to landfill. Cyclone separation has been used for decades in saw mills all over the world where the technology performs in the most rigorous of environments for the long term with no filters and no reduction in performance.

EnviroVent's Filterless Extract Fan is designed and manufactured in the UK specifically for the rigours of Social Housing where there is a need to remove moisture and improve indoor air quality for all in the dwelling over the long term with minimal maintenance.



This unique technology has received a Queen's Award for Innovation, commended for its outstanding benefits and sustainable features.



Fan Selection Checklist

Before specifying your extract fan it is important to take the following points into consideration...

Is the fan fit for the planet?



- Think about who made this fan and where it came from. Is the fan made in the UK?
- Does the fan incorporate the latest Ultra Low Watt motor technology using a maximum of 7W bathroom & 26W kitchen to reduce household running costs and carbon emissions?
- When the fan reaches the end of its life does the manufacturer take it back, refurbish it and return it with a fully re-instated 5 year guarantee ensuring no parts end up on landfill?
- Does the fan incorporate a UK manufactured ultra-low watt DC motor which has been life tested for at least 10 years?

Is the fan fit for people?



- Has the manufacturer considered fan hygiene by designing out the requirement for a filter which will quickly become contaminated with bacteria and require regular maintenance? Filterless technology can only be achieved if the fan incorporates Cyclone Separation Technology.
- Is the fan ultra quiet and efficient even during times of high indoor humidity when higher ventilation rates are required? i.e. to prevent nuisance running.
- Does the fan incorporate self-setting technology through intelligent vapour tracking controls?

Is the fan fit for purpose?



- Can the manufacturer demonstrate that the fan will perform at the correct duty when connected to a window or wall kit?
- Are all electronics, motors and wiring sealed and protected from contamination in IPX4 compartments or are they left exposed?
- Does the fan manufacturer test every fan for performance and efficiency before it leaves the factory and is the fan BEAB approved?
- Can the fan be installed and commissioned without the requirement for complicated dip switches?
- Essential for fan replacement. Does the cable entry allow cable entry from all points of the compass?

Back up service and warranty



- If the installer experiences any difficulties does the manufacturer employ a team of nationwide NICEIC approved service engineers to provide full on-site technical support for clients, tenants & contractors?
- Does the fan manufacturer offer an on-going 5 year maintenance free warranty?
- Can the manufacturer provide a full life-cycle cost analysis over 25 years, taking into account replacement, maintenance and environmental impact over this period?
- Does the manufacturer honour the warranty whether the fan is cleaned or not?



The original...

Filterless Extract Fan

The 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.



Save up to half the maintenance costs over 25 years compared to traditional fans

Features/Benefits.

- Unique patented cartridge system
- Filterless technology
- Ultra Low Watt motor technology
- Patented helical power expansion chamber
- Automatic vapour tracking function
- SELV model available
- On-going 5 year guarantee
- Fan for life
- Designed for the life of the building
- Versatile and flexible
- Ideal for all applications
- Environmentally friendly
- Low maintenance
- Low life-cycle costings
- Spectacular performance
- 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.



Made in the UK.

Helping our local economy and ensuring the very highest quality products.

Long term life-cycle costs.

As part of our award-winning Lifetime Range® the Filterless Fan has been designed so that anytime after five years the maintenance and replacement occurs by simply and quickly exchanging the plug out/plug in central cartridge. This can then be taken back to the EnviroVent factory to be re-worked or recycled.

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 ensures 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 every year.



Energy saving vapour tracking system.

Integral within the 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.

Ensures the lowest energy usage and quietly controls condensation



Air management.

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



One fan for all situations.

From simple through the wall installations to complex ducting/bend systems the Filterless Extract Fan fits all applications with the use of easy to install accessory kits. The 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.

- | | |
|----------|-----------|
| ✓ wall | ✓ ceiling |
| ✓ window | ✓ in-line |

Number one choice.

The Filterless Extract Fan is now the first choice by over 500 Registered providers including a multitude of major procurement groups. It can also be branded with your logo on it.



Ideal for...



Low performance. Low energy costs.

Using the advanced EnviroVent Ultra Low Watt Brushless DC Motor, the fan achieves exceptional levels of energy use.



Easy cleaning. 4 easy steps.

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.

Remove the front cover



Clip out impeller and wipe the fan clean



Wash the impeller in a sink or dishwasher



Replace impeller and front cover

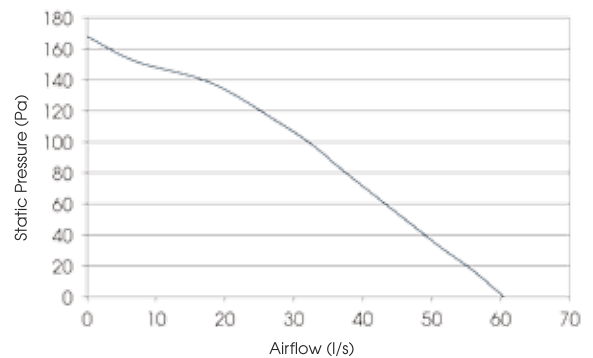


Technical Data

Dimensions (mm)



Performance Curve



Running Costs

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

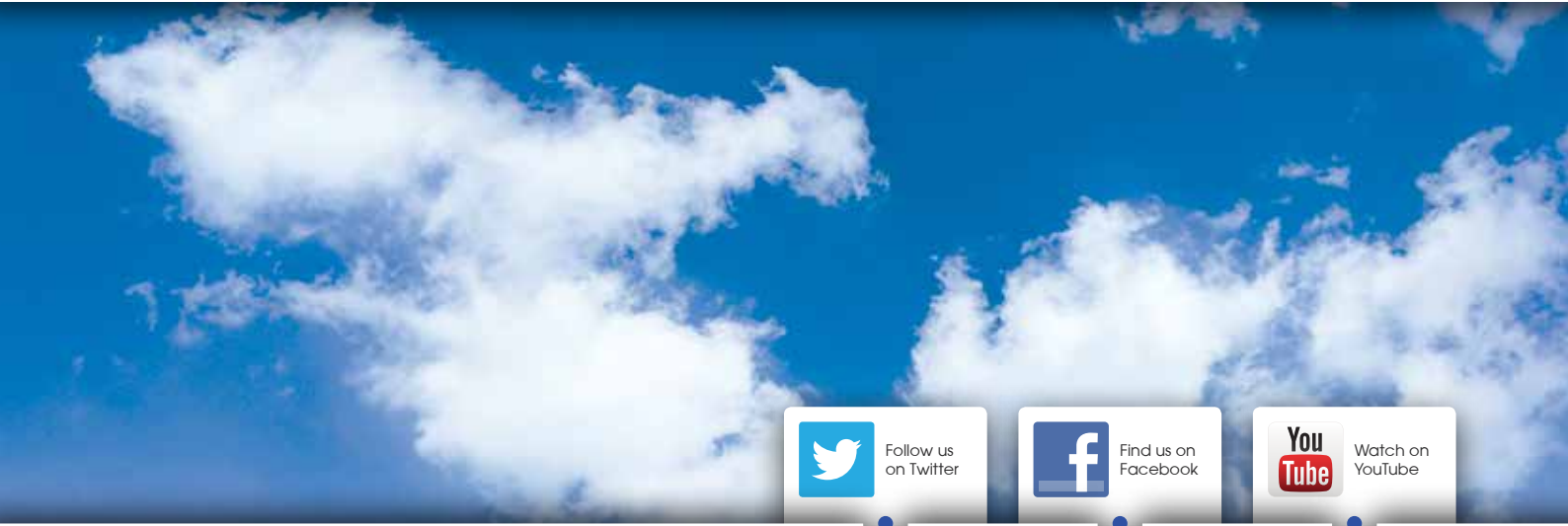
Setting	Watts	Hours Run Per Day	Energy Cost P/A (£)	Total Energy Cost P/A (£)
Background trickle	1	22	1.20	1.97
Bathroom on boost	7	2	0.77	
Kitchen on boost	26	2	2.85	4.05

Order Codes

EFHT2S-230V	230V version
EFHT2S-SELV	SELV version
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-230V-TEM	230V with time elapse meter
EFHT2S-SELV-TEM	SELV with time elapse meter
EFHT2S-230V-WL	230V wireless version
EFHT2S-SELV-WL	SELV wireless version
EFHT2S-TEM-WL	230V with time elapse meter and wireless boost

Accessories

EFHTCM-RC	Remote Pullcord
EFHTCM-WS	Remote Wall Switch
1RD EFWAK	Wall Mounted Kit
1AC EFCMBR	Ceiling Mounted Kit
EFWIKUNI	Window Fixing Kit
KITINLINEFAN	In-line Fixing Kit



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Because Air Matters

Leaders in the manufacture of innovative and sustainable ventilation

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Due to our policy of continuous innovation and improvement, EnviroVent reserves the right to alter products specification and appearance without notice.
E&OE | MKT ENV205-V3-12.02.14

