

Data Sheet

Ecofix



System Overview

Ecofix from Quintex is an advanced, fully automated grease management system designed for commercial kitchen extraction and ventilation systems. It provides a safe, eco-friendly solution for continuous cleaning and grease breakdown, eliminating the need for manual scrubbing. Ecofix is certified to meet environmental health standards, ensuring compliance with hygiene regulations.

Key Features

- Automated Cleaning : Uses advanced biological technology to break down grease deposits in extraction and ventilation systems
- Comprehensive Coverage: Reaches all components, including ductwork, canopies, filters, fans, silencers, and ventilated ceilings
- Odour Control : Eliminates residual odours, improving air quality and reducing nuisance to surrounding areas
- Eco-Friendly & Safe: Introduces micro-droplets of a non-toxic, biodegradable formula that safely dissolves grease without harsh chemicals
- Labour & Cost Reduction: Minimises the need for manual cleaning, reducing downtime and maintenance costs

How It Works

The Ecofix biological cleaning mist is produced through a patented process that creates continuously harmless, biologically active droplets. This agent is introduced into the kitchen extraction and ventilation system, where it attaches itself to grease, oils, and fats. It then breaks down their carbon structures into water and carbonic gas, leaving only an extremely small biomass residue.

This residue is safely expelled with the airflow and naturally absorbed by the environment. As part of this process, odour-causing particles are trapped and neutralised, significantly reducing unpleasant smells. Additionally, with no grease buildup remaining, the fire risk associated with grease-laden extraction systems is substantially reduced.

Ecofix gives the client several options to meet their requirements.

- Reduction in grease build-up which in turn reduces risk in terms of fire safety.
- Odour control to reduce operational output
- Reduced servicing costs for e.g., larger systems require less time, less labour, and less frequency of visits.
- Can be designed to fit the requirement – Some clients will install mainly in risers (internal & External). This reduces the frequency of cleaning which can delay expensive access equipment costs. As an example – some clients have installed Ecofix in their discharge riser only. This removes the yearly access cost for abseil cleaning – we hope to push out the access cost to 36 months in most cases (if possible). The remainder of the system will be cleaned manually at the PPM.

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Ecofix



Intelligent Grease Management

Installation

Ecofix

Control Panel

Controls the operation of Ecofix. 'the Brain'. Includes PLC controller and secomea modem for connectivity.

Wet Panel

The mechanical part of Ecofix. Delivers detergent and bio additive to the kitchen extract system. Bio is incubated within the wet panel so it can be delivered in an active state daily. We are currently looking to improve incubation techniques and maximise dosing capability.

Panels are connected and represent a footprint requiring enough space. At survey we determine site for the panels to include adequate space and the proximity to services (Power & Water) Some clients prefer that the panel is installed out of sight where possible

Ecofix Chemicals

Both the bio (B1) and nutrient (N1) are housed within the wet panel. The detergent (D1) is mounted external to the panels either at floor level, close by on shelving or mounted local to the panels in purpose built detergent holder/cage.

COSHH information available on request.

Zones Delivery

Ecofix currently gives us 6 zones with a maximum of 6 nozzles in each. Where an extract system coverage can't be achieved in terms of efficacy, a second Ecofix system would be required.

Some systems will not utilise the whole capacity. Ecofix can be installed to cover internal and external risers. This reduces servicing costs in difficult to access areas and can push out cleaning frequency

Spray Nozzles – Ductwork penetration

The nozzles are installed through the ductwork as required. We now use a mechanical ingress fitting (brass) with intumescent seal. This allows us to be Practicable in terms of fire safety and continuity regs.

We have significantly reduced ductwork penetration to limit the potential for continuity issues. We are also running zones internally in areas exposed and in view.

Fire rated ductwork

This needs to be considered in every installation. Whenever ductwork leaves a fire compartment and travels through or over a populated area, it is likely to be fire rated. This will be picked up on the survey.

We limit ingress into the ductwork where possible as to not affect the rating times. We are practicable with the installation and do even install internally .

Connectivity

The secomea modem and link manager package allows us to monitor all aspects of Ecofix remotely

We can control and make changes to the system and assess the current delivery and alarm states

Pre-Installation

To keep install time and costs down, if the client can allocate an area for us to install the panels in and run the services, i.e, a water connection and 13-amp electrical connection (spur & switch) However, we can carry this out if required.

Technical Specifications

Ecofix

Control Panel	
Width	540mm
Height	450mm
Depth	250mm
Electricity	Standard 13amp connection

Wet Panel	
Width	410mm
Height	400mm
Depth	200mm
Water Source	Standard pressure - We generally connect to the services available in the wash area or local connection

Detergent (D1) – 20L Drum	
Width	250mm
Height	380mm
Depth	240mm

Zones Delivery

This can give us system coverage up to a length of 50 metres where delivery is specific to an area. In design, we work on the criteria that there are 6 main areas (in terms of hygiene) of an Extract system. (as per TR19)

Spray Nozzles – Ductwork penetration

6 Nozzles per zone – 6 Zones.

The current PLC in the control panel only allows this, although we are looking to improve the output.



Specialists in energy efficient ventilation and grease management systems

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