



**FOOD & BEVERAGE  
PROJECT ENGINEERING  
SOLUTIONS AND MANAGEMENT**

**viledon<sup>®</sup>**  
engineering

FREUDENBERG  
FILTRATION TECHNOLOGIES

 **FREUDENBERG**  
INNOVATING TOGETHER

## PROJECT ENGINEERING MANAGEMENT

Freudenberg Filtration Technologies Project Engineering Team are specialists in Air Movement and Climatic Engineering Solutions found in the food industry and other controlled environments.

Being part of the worldwide Freudenberg Filtration Technologies group means that we are supported by an impressive international back up structure that few Project Engineering companies can match.

The vast majority of our food industry clients employ the Freudenberg Filtration Technologies Projects Team for their experience in designing tailored engineered and project managed solutions either in new build manufacturing operations or factory expansions. Our Project Engineers are specialists in the delivery of wide ranging air quality and climatic engineering work, on time, on budget and specifically in a food safe environment.



AHU Crane Lift



Installation of a Chilled Water AHU



Aluminium Ductwork Installation

### The Food and Beverage Project Engineering Pedigree

Freudenberg Filtration Technologies, have long been associated with air quality systems and the food industry. Located in Cheshire, where Project Engineering, filter manufacture and Service administration is based, the company offers a comprehensive range of specialist food related services to clean, heat, cool and extract air required for controlled environments and isolation containment systems.

Freudenberg Filtration Technologies are active members of Campden BRI and EHEDG, and we have played a significant part in developing air quality guidelines used throughout the food manufacturing sector. We have maintained technical involvement with both associations including that of Vice Chair on the Air Quality Document Twelve, first issued in 1997 and revised in 2005. More recently Freudenberg Filtration Technologies have assisted on the revision of EHEDG document: 'Hygienic design of air handling systems for the food industry'.

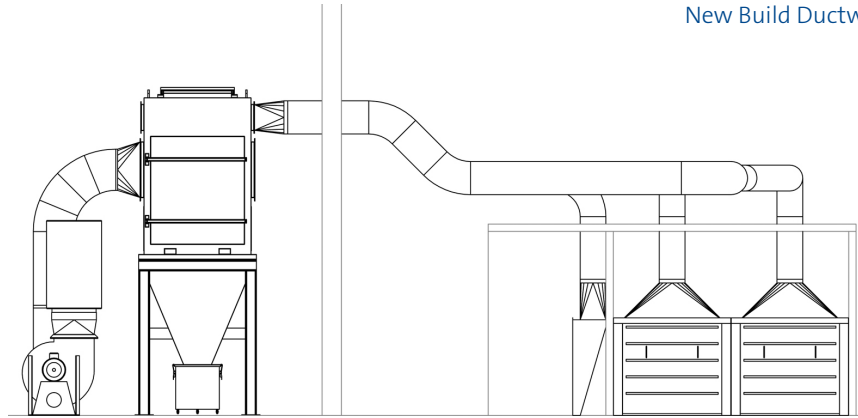
## ENGINEERING SOLUTIONS AND PROJECT MANAGEMENT

The Freudenberg Filtration Technologies Project Engineering Department are food industry specialist engineers. We are able to provide peace of mind on any turnkey project managed solution regardless of size and budget. Our Project Engineers have over 50 years of combined experience in meeting the expectations of any operational food manufacturing facility as they expand their controlled manufacturing environment.

Project Engineered solutions managed by Freudenberg Filtration Technologies are installed by our own in-house team of erectors and fitters who are specialists when working within a hygienic, food safe manufacturing facility or other controlled environments. Working alongside other contractors on new build installations or as a sole contractor on upgrade or facility modification projects, our work will always meet specification. Any project work undertaken is managed and resourced to minimise the amount of disruption to ongoing site operations.



New Build Ductwork Installation Work



### Examples of Food and Beverage Engineering Projects Designed and Managed by the Project Engineering Team include:

- Refrigeration and product cooling solutions and system design
- Factory temperature control
- General ventilation solutions and installation
- Factory ventilation extensions and improvements
- High Risk and High Care controlled space design and upgrade
- Over pressurisation climatic engineering
- Extraction system design and installation
- Site evaluation and report preparation for auditing and engineering proposal
- Volumetric site surveys and system balancing
- Air Handling Unit (AHU) refurbishment and upgrade
- Dust Control LEV System design and installation



LEV System Design and Installation



Integrated Ventilation System Control Panel

## AIR QUALITY, DUST CONTROL SERVICE AND MAINTENANCE CONTRACTS

The in-depth knowledge and understanding that we have of the food industry ensures that when it comes to air quality, the requirements of food manufacturing standards, such as BRC, GFSI and other food retailers are achieved. The air quality service and maintenance contracts offered by Freudenberg Filtration Technologies ensure that the food industry manufacturer will always have this part of the audit under control.

Our 20 years of air movement experience, general maintenance of ventilation and HVAC plant coupled with nationwide coverage, ensures that we are never far from our customers. Our service and maintenance contracts can be tailored to suit the needs and budgets of any requirement. Our contracts range from simple inspections to complete service and maintenance packages including; filter consumables, labour, motor drive maintenance, coil and ductwork cleaning.

### Remedial Engineering, Service & Maintenance Solutions:

Other types of work carried out by the Service team include:

- Airflow mapping and over pressurisation solutions.
- Stainless steel food grade welding and fabrication.
- Remedial AHU repair and upgrade.
- Coil and pipe work installation and repair.
- Ductwork installation.
- Ductwork modifications and alterations.
- AHU sanitation and ductwork cleaning.
- Fan and motor repair or installation.
- LEV surveys carried out by qualified P601 LEV examiners.
- Dust collector maintenance and servicing.
- Dust control system design, upgrade and installation.
- Energy reduction monitoring and system optimisation.

### Life Cycle Costs and Energy Reduction

Freudenberg Filtration Technologies have been developing filtration products with climate change and energy efficiency in mind. The service team can provide advice and guidance on the most efficient filter with the lowest life cycle costs for the application or process in question. In short, our experience and expertise will ensure that any system under our contractual care is performance optimised.

### Freudenberg Filtration Technologies Commitment to Health and Safety

As part of a worldwide group, we are committed to the health and safety of our employees, operators and customers. Consistent and continuing review of all our Environmental Health and Safety procedures, combined with professional vocational and legislative training ensures conformity and customer confidence in any Service or Project based work undertaken.



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Freudenberg Filtration Technologies Service Fleet



AHU Service and Maintenance



LEV and Airflow Testing



Service Work being carried out on a LEV Dust Collector