



IMPROVING THE AIR WE BREATHE

serving the following sectors...



medical



business



catering



manufacturing



leisure

ductwork cleaning

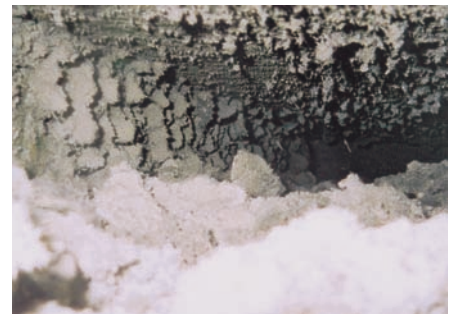
Ductwork in all shapes and sizes is used to ventilate and condition numerous types of premises such as hospitals, offices, cinemas, kitchens and museums. Almost always the ductwork is hidden from view and the accumulation of debris is not apparent. If left this debris may propagate unwanted allergens or provide a breeding/feeding ground for insects and vermin. This can seriously effect staff productivity and pose a health risk to visitors and customers.

To address these problems access must be gained to the system. Even though current ductwork specifications, DW 144, call for access doors at pre-determined locations and distances it is likely that additional doors will be required to clean the ductwork to H.V.C.A. TR19, HTMO3-1 & C.I.B.S.E. TM26 standards.

Once access is gained a variety of techniques can be used to dislodge debris from the internal surfaces of the ductwork prior to vacuum removal. Most common, in ductwork up to 800mm diameter, is the rotary brush system, which can be worked at long distances and orientated around bends. This reduces access door requirements to a minimum.

Other systems such as compressed air "rattlesnake" nozzle and manual hand cleaning are used dependant on application.

The vacuum removal system features a three-stage filtration system, which prevents the collected dust being re-circulated into the working area.



Extract duct before cleaning



Extract duct after cleaning

Where clinical hygiene standards are needed i.e. hospital operating theatres, the internal surfaces of the ductwork can be sterilized permitting microbiological checks to be conducted to establish the precise level of cleanliness.

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Our team of experienced surveyors can accurately quote for any given project by way of a free site survey. Alternatively drawings can be sent by post or email so that a linear meterage can be established. Our "in house" plotting capability of emailed drawings helps speed up the quotation process for those requiring an urgent price.

case history

LONDON AREA ACUTE HOSPITAL

A large acute hospital had extensive ductwork runs in all areas which needed attention. Many of these were in occupied areas which posed difficulties with regard to access. Regular consultation with nursing staff ensured that the agreed work programme was met much to the relief of patients and estates personnel. A hospital representative commented "I would like to congratulate Ductbusters on providing the hospital with two of the most professional operatives that have ever attended this site. Your guys worked within a patient led environment and their manners and professional approach has been noted by numerous staff members."



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risk assessment

It is not widely known that the only legal requirement with regard to ventilation system hygiene is that the systems are regularly inspected and the findings recorded. This is a requirement laid down in the Health and Safety at Work Act and applies to owners and operators of workplace premises.

This inspection was traditionally carried out by "in house" staff but recent investigations conducted after various "incidents" have questions whether such staff have the experience and qualifications to pass judgement of the cleanliness of a ventilation system.

These judgements would include the ability to interpret the guidelines laid down by the HVCA TR19, CIBSE TM26 and HTM O3-1. Our list of accreditations gives all of our clients the necessary reassurance with regard to correct interpretation of the above standards.

Numerous organisations, both private and public, have found our Risk Assessment service useful in establishing the internal conditions of any ventilation system so that appropriate action can be taken.

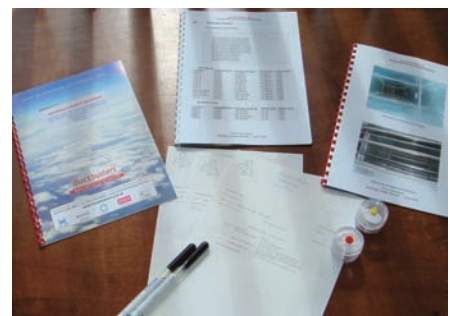
We have a wide range of photographic and diagnostic equipment which can measure dust levels, microbiological content (verified by a independent, accredited laboratory), temperature, humidity and CO². All of these results can be compared with the threshold levels detailed in the relevant standards and compiled into a written report. This report will feature digital photography to highlight our findings



Diagnostic equipment

whilst also suggesting whether any remedial action is required.

Risk Assessments of the nature we provide can be useful in obtaining funding for a cleaning programme or investigating complaints over indoor air quality which could lead to a regular monitoring programme being instigated so that any adverse internal conditions can be recognised before they become a significant problem.



Risk assessment report

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risk assessment

Our team of experienced surveyors can advise on the scale and scope of any risk assessment project you may be considering, This initial consultation is free of charge and will cover the potential use of all the types of diagnostic equipment we have available to accurately ascertain the internal conditions within any ventilation system.

case history

SOUTH YORKSHIRE FOOD PROCESSING PLANT

A large food processing factory needs to maintain the highest levels of hygiene to meet the rigorous standards laid down by high street supermarket chains. Part of the hygiene regime is an annual risk assessment of the internal condition of all ductwork and air handling units that serve production areas. This establishes the levels of particulate and micro-biological contaminants so that a maintenance and cleaning programme can be implemented. A spokesman for the company commented "The annual risk assessment helps us identify areas of priority so that we can meet our clients strict hygiene audit criteria.



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kitchen extract cleaning

The majority of catering establishments feature a canopy extraction system within the kitchen to control the build up of heat, steam and grease emissions in the cooking area.

The filters in the canopy act as a good "first line of defence" against grease deposition but still allow the smaller particles to pass into the extract ductwork system. These deposits will accumulate over time and can pose hygiene and fire risks.

Whilst the canopies and filters are easily accessible for regular cleaning by catering staff the ductwork is normally hidden above a ceiling and can pass through numerous walls and floors before reaching the discharge point. These hidden sections require specialist attention for cleaning to TR19 standard. This standard also indicates a recommended frequency of cleaning dependant on the number of hours per day the kitchen is operational.

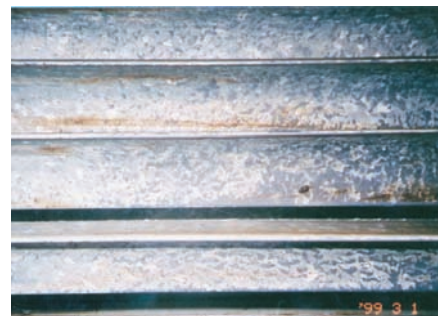
Once cleaned to TR19 a cleaning certificate can be produced to verify compliance with Health & Safety obligations & Insurance requirements.

Many hotels, restaurants, leisure clubs and fast food operations now include the kitchen extract system on their regular maintenance schedule.

Apart from hygiene and continued business considerations there are



Heavy cooking grease contamination



Fire risk alleviated

potential legal implications to consider. If for example fire investigators found that there were no access doors in the ductwork, making it impossible to clean, then the building owner could be guilty of negligence and face prosecution under the Health & Safety (Offences) Act 2009.

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case history

SOUTH COAST ADULT EDUCATION COLLEGE

An impressive adult education college that offers a wide range of residential courses such as sculpture, wood working and creative writing has a very active catering department. The two restaurant facilities on site serve the needs of residential students and visitors offering a varied menu of hot and cold meals. Both locations have a canopy extract system which require periodic maintenance to prevent the build up of grease which can constitute a fire risk. Upon successful cleaning of the two canopy extract systems the Buildings Manager at the college commented as follows " We were concerned that it would be difficult to get all of the extract systems cleaned in one visit. The necessary labour was resourced to fit into our busy schedule who worked extremely efficiently whilst on our premises."



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air handling unit maintenance

At either end of a supply or extract ventilation system there will be an air handling unit or extraction fan. The cleanliness and performance of the system can be compromised if debris is allowed to build up on coils in chambers and on fan blades.

Condensation is also frequently present within an air-handling unit, which provides heated or chilled air. The resultant moisture can cause corrosion to drip trays and floors. These can be economically repaired and coated to provide a cost effective alternative to replacing the entire unit.

Filter changing is a further service that can be provided. We have access to a wide range of filter suppliers who can provide bag and panel filters in all sizes and specifications from EU1 to HEPA.

Panel locks and seals can also deteriorate over time and again we are able to source a wide variety of components to prevent leakage from loose panels.

The replacement of drive belts and pulleys is sometimes needed to maintain performance or alter airflow and we have the engineering ability to conduct such work.

Another frequent customer request is the replacement of automatic roll on filter mechanisms within air handling units. The strip out of the old mechanism and fitting of a frame to



Contaminated heating coil



Heating coil returned to efficient operation

accommodate a superior filter media again provides an economic solution to the cleanliness of air entering a system. Irrespective of age or make the spares and expertise are available to ensure that you get the most from your air handling unit plant.

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air handling unit maintenance

Our team of experienced surveyors have an in depth knowledge of the operational and maintenance requirements of all types of air handling unit. A detailed examination of the unit will be undertaken so that a quotation covering all the required elements i.e. coil cleaning, filter replacement and drive belts can be prepared. All examinations of this nature are free of charge.

case history

LARGE MIDLANDS ACUTE HOSPITAL

This hospital has a large number of air handling units serving a wide range of medical areas from wards to operating theatres. Many of these units feature a "roll on" filter mechanism which are known to be temperamental. Ductbusters have the expertise to remove the old "roll on" mechanism and install an internal framework to accept panel filters to the appropriate specification.



A hospital spokesman commented "The option offered by Ductbusters proved to be cost effective and was completed with the minimum of disruption."



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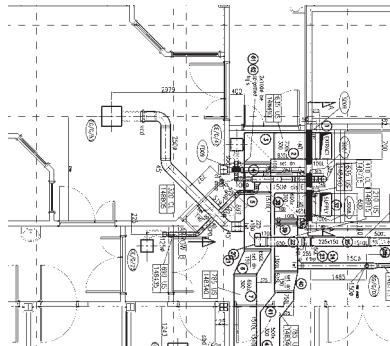
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ductwork design, manufacture & installation

Ductbusters have geared their business to become the leading UK company in the supply, maintenance and cleaning of ducted ventilation systems. An experienced professional management team ensures customers receive a first class product designed, manufactured and installed with you the customer in mind.



We produce specific tailored packages from a single item of ductwork to a full ductwork and AHU package by use of our in house Computer Aided Design (CAD) team. Our investment in the latest technology enables tender drawings to be emailed directly to our CAD office and costs to be issued (cad@ductbusters.co.uk)



Ductwork is produced in primarily sheet metal (galvanised form) to the HVCA DW144 Specifications with jointing systems for all pressure classes. Applications requiring plastic, aluminium, mild steel can also be accommodated to suit clients application, i.e., continuous welding for fully gas tight systems.



We have the capability to install all types of ductwork and air moving systems on construction sites as well as existing premises often working outside normal hours. Our operatives have extensive experience with regard to the fitting or removal of ventilation systems and hold the necessary PASMA, IPAF and CSCS accreditation. They are committed to providing only the best quality installation and recognise the importance of co-operating with other trades to achieve this objective.

Ductbusters has geared its business to meeting the requirements of today's designers and specifiers and has a long term commitment to meeting the challenges of tomorrow.

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ductwork design, manufacture & installation

Quality assurance (ISO 9001) and Environmental Accreditation (ISO 14001) means a first class product from the drawing board through to final installation, it also means a professional approach to projects, from the enquiry stage to completion.

Our team of experienced surveyors have an in-depth knowledge of the design and installation criteria relating to ventilation systems. A detailed examination of the installation area will be undertaken and your individual requirements for the system ascertained so that a detailed proposal can be prepared. All surveys of this nature are free of charge.

case history

A major University required a refurbishment of the Finance Offices. The existing ventilation ductwork and grilles were not compatible with the new impressive fibrous tiled ceilings. Ductbusters replaced the complete grilles, diffusers, flexible connections and installed new ductwork sections that enabled the Architect to complete the required project plan. The new grilles and ductwork sections were shown on a fully detailed working drawing to enable the project to be agreed before commencement.



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