

western airducts

group of companies

air quality engineers





*“ Our vision is to be the world leader in the
design and implementation of workplace air quality solutions
in order to provide a better, safer and healthier life for people everywhere.”*

Company Profile

Western Air Ducts (UK) Ltd. are leaders in the design, manufacture and installation of dust and fume extraction systems solutions to workplace air quality problems.

Established in 1973 initially as a consultancy and design only business in recognition of the fact that workers were being subjected to air quality conditions which were simply unacceptable and in the worst cases potentially life threatening. As a company Western Air Ducts recognised that responsible employers wanted to provide their employees with a safe working environment even before legislators began to take action.

Over the last 3½ decades Western Air Ducts (UK) Ltd. has grown to include manufacturing and installation capabilities as necessary to manufacture and install systems in accordance with our designs. From humble beginnings we have now undertaken projects in South America, Asia and Europe as well as having an extensive portfolio of successfully completed projects, both large and small, within the United Kingdom.

Every manufacturing process which produces dust, fume, smoke or vapour has the potential for:

- Creating physical harm or discomfort for employees.
- A reduction in product quality.
- Shortened working life of plant and equipment.
- Causing damage to the environment.

Regardless of legislation every employer has a responsibility to provide a safe working environment. With our experience we have the ability to solve even the most complex workplace related air quality issues and thereby offer our clients guaranteed solutions to their workplace air quality problems.

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Company Ethos

OUR MISSION STATEMENT

To provide engineered solutions to protect both the workforce and the environment from emissions generated by industry.

WE BELIEVE

All members of the Western Air Ducts Group of Companies should continually strive to use their positions and responsibilities to improve the working conditions of others; and protect the environment.

INTEGRITY

In our dealings with customers, employees, shareholders, government authorities, suppliers, neighbours and the public.

QUALITY

In our products and services, in our manufacturing methods and general management.

TECHNOLOGY

In our particular fields of research, product development, engineering and manufacturing.

GROWTH

In sales, profits and strength within our areas of expertise.

PROGRESS

Toward an environment where our people have increasing opportunities for contribution, fulfilment and reward.

OUR VISION

Is to be the world leader in the development and implementation of workplace air quality control solutions in order to provide a better, safer and healthier life for people everywhere.

Services

CONSULTATION

As specialists in the industry we are confident that if you have a fume or dust problem within the workplace we can provide you with a solution specific to your needs. This includes but is not limited to:

Providing detail requirements for the provision of dust extraction and/or fume extraction equipment including for scheduling extraction plant required and layout plans for ductwork installation.

- In the case of new equipment detail a specification suitable for use as part of tender documents and advise on which tenders are most suitable.
- Assess problem areas currently existing and areas with potential for future problems and provide detailed solutions.
- Provide a report detailing problems found and stating their levels of severity in terms of risk to; health, productivity and quality.
- If required we can oversee and commission the implementation of our designs.

MANUFACTURE

We can manufacture or out-source all plant, ducting and equipment connected with the fume extraction and dust extraction industry and export systems suitable for installation by a local workforce to anywhere in the world.

With our extensive resources of CNC aided equipment we are also able to offer systems manufactured in specialist materials such as stainless steel, aluminium, PVC, polypropylene etc.





INSTALLATION

We have a dedicated, directly employed installation team enabling us to offer a nation-wide installation service for all fume extraction, dust extraction and ventilation related systems.

Using experienced engineers specialising specifically in this field we ensure that each installation optimises the systems benefits. In this way we are able to install systems in the way they were designed maximising efficiency and minimising the risk of costly mistakes.

MAINTENANCE / COSHH LEV

As specialists in dust extraction and fume extraction systems we offer a COSHH LEV Testing and Maintenance Service in compliance with current legislation to ensure the extraction systems continue to provide safe working environments for the employees. This service extends from equipment we have installed in the past to taking on existing infrastructure in a maintenance package tailored to suit your needs.

“Regulation 9 of COSHH requires that any control measure taken to comply with regulation 7 must be maintained in an efficient state, in efficient working order and in good repair. LEV systems should be examined and tested at least once every 14 months.”



Case Studies

EDF ENERGY

At the end of 2008 we were approached by EDF Energy to provide a solution to the dust problem which was being encountered as a result of adding Biomass to a coal stream at two of their U.K coal fired power stations.

Having had previous experience of this application whereby we designed, manufactured and installed a system for Scottish Power to serve their new Biomass Plant serving Longannet Power Station we were in the unique position to have a reference site which we could show engineers from EDF.

Upon visiting the Scottish Power site and speaking with engineers who have been operating the system we installed for the past two years EDF were convinced that we had exactly the expertise they needed in order to resolve their Biomass related dust problems.

Following completion of the installations at the two EDF sites the systems we designed, manufactured and installed (as lead contractor under CDM Regulations) the operating engineers confirmed that the systems worked better than they could ever have expected.

In the words of one engineer; "with the new system running we would not know that we were Biomassing even when standing within 1-metre of the discharge point - when the system is not running you can hardly see your hand in front of your face!" It is feedback such as this which gives us job satisfaction.



HONDA

In 2007 we were approached by Honda UK to design a system to remove the emissions generated by the sand moulding process within their engine casting plant. The problem with this process is it not only generates particulate emissions but it also emits odour which can be considered unpleasant.

The solution we developed incorporated a two stage filtration process; the first stage was designed to remove the particulates from the extracted air stream with the second stage designed to remove the odour.

The installed system which incorporates an initial reverse-jet dust filtration unit followed by a bespoke activated carbon odour absorption unit has now been in operation for over two years. During this time a regular emissions monitoring programme has confirmed that both particulate and odour emissions are well within the stringent conditions set by the Local Authority.



REFERENCE LIST

Alcan	Ministry of Defence
Akzo Nobel	National Health Service
BNFL	Palace of Westminster
BP	Portola
Cadbury	Procter & Gamble
CooperVision	Scottish Power
Corus	Sun Chemicals
EDF Energy	Total
Eton College	Twinnings
GE Energy	Tyco
Glaxo SmithKline	Walkers Snackfoods
Honda	Wessex Water
HM Prison Service	Wrigleys



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group of companies

Western Air Ducts UK Ltd.
Environment House
Westfield Industrial Estate
Midsomer Norton
Bath BA3 4BS
United Kingdom

Tel: +44 (0)1761 416700
Fax: +44 (0)1761 415793

email: info@wad.co.uk
web: www.wad.co.uk

Western Air Ducts Lanka Ltd.
Mahahena Road
Siyabalape,
Sapugaskanda,
Sri Lanka

Tel: +94 (0) 11 2400987
Fax: +94 (0) 11 2400986

email: (Info) Info@wad.lk
web: www.wad.lk

Western Air Ducts Singapore Pte Ltd.
361 UBI Road 3, #03-22A
ArmorCoat International Building,
Singapore 408664.

Tel: +65 6875 4251
Fax: +65 6747 6337

email: (Sales) alex@wad.com.sg
email: (Info) info@wad.com.sg
web: <http://www.wad.com.sg>

Western Air Ducts Bangladesh (Pvt) Ltd.
Flat # 8-16 (8th Floor)
Road # 17, Banani,
Dhaka,
Bangladesh.

Tel: +88 02 882 5190.
Fax: +88 02 882 6377.

email: (Sales) sales@wad.com.bd
web: <http://www.wad.com.bd>

Western Air Ducts India (Pvt) Ltd.
15/27 Dhandayuthapani Nagar
1 st Street Kotturpuram
Chennai
600 085
Tamilnadu
India

Tel: +91 44 4218 2495
Tel: +91 44 2447 1489
Fax: +91 44 4218 2495

email : (Info) Info@wad.in
web: <http://www.wad.in>

Western Airducts India Pvt.Ltd.,
No.D-262 Ranjangaon MIDC,
Karegaon, Tal.Shirur,
Dist.Pune
412 209
India

Tel :+91 21 3823 2423

email : (Sales) Sales@wad.in
email : (Info) Info@wad.in
web: <http://www.wad.in>

Western Air Ducts Pakistan (Pvt) Ltd.
Suite # 208, Marine Faisal 10-A Block-6,
P.E.C.H.S. Shahrah-e-Faisal,
Karachi,
Pakistan.

Tel: +92 21 453 3148
Fax: +92 21 453 3153
Cell: +92 301 822 0458

email: (Info) info@wad.com.pk
web: <http://www.wad.com.pk>