

Keeping Cool with Mitton

The UK market for air conditioning continues to grow. In 2004, research shows the market increased by 5% to £635.2 million, with a further 4% growth in 2005. With 2006 registering as the warmest summer since records began, demand for air conditioning equipment increased by a further 4% to £683.6 million. The value of the market is expected to reach £736 million (at 2006 prices) by 2011.

Alongside these predictions, Mitton continues to invest in its now established air conditioning division.

This department focuses on a full range of air conditioning services including new installations, planned maintenance and emergency call-outs. With the advent of new refrigeration gases and the need to replace older

systems, Mitton is increasingly involved in total refurbishment programmes, implementing new and energy efficient systems in line with changing building regulations.

The Air Conditioning Department is run by Ian Brown and operates nationwide, managed from Mitton's Head Office in Yorkshire and implemented across the country via Mitton's network of depots.

The Air Conditioning Division is currently looking at providing clients with detailed information on systems installed to assist them with their own calculations of the carbon footprint for their buildings, in line with pending legislation.

"...total refurbishment programmes..."



BESCA Registration for Mitton

Building Engineering Services Competence Accreditation (BESCA) was established by the Heating & Ventilation Contractors Association to act as an independent assessment and certification body for the building services industry

BESCA is the only authorised Competent Persons scheme to cover commercial work under the new Building Regulations Parts F – Ventilation and L – Energy Efficiency, aiming to implement government policy to reduce the emission of carbon dioxide into the atmosphere.

One of the first organisations to be registered with BESCA, and in line with the company's commitment to excellence and professionalism, Mitton recognises the increasing need for building services companies to work

very closely with architects, designers and contractors from Day One of each project, aiming to optimise the build in terms of carbon footprint.

BESCA is all about self certification of schemes, designs and proposals. Mitton has already trained up Accredited Persons enabling the inspection and certification duties of local

"The objective is to attain optimum energy performance standards..."



authority building control to devolve to the company. The objective is to attain optimum energy performance standards to control wastage of energy from heating and hot water systems, ventilation, air conditioning and similar systems, and minimise solar gains in the summer months.

Investment in Training

Mitton remains committed to the future of the industry and the professional role the company plays in training and developing the skills necessary to provide qualified and expert services to the construction industry.

At the recent Leeds College of Building Awards 2006, Mitton apprentices continued to win acclaim for their progress and performance.

In the Regional Awards, Steven Ballard won the HVCA Regional Award for Service & Maintenance Engineering

"Mitton apprentices continued to win acclaim for their progress and performance"

For Services & Craft Studies, Thomas Robertson won the top award for Heating & Ventilation – Service & Maintenance/Year 2, with Stuart Rubery taking the Buck Hickman in One Shield (Heating & Ventilation/Year 3)

Colin Johnson was awarded the Summit Skills Service & Maintenance Engineer of the Year accolade.

Johnny Knowles won the Leeds College of Building Technicians Award.

Meanwhile, Tom O'Hara swept the board, winning HVCA Heating & Ventilation Craftsman Award, the Summit Skills National Training Award for Pipefitter of the Year, the Summit Skills National Award for Best of the Best, and finally also taking the Governors Award, the Governors Shield.

Congratulations to all!



(Picture shows Michael Taylor presenting iPod Nanos to successful apprentices Stuart Rubery and Johnny Knowles, on behalf of Mitton.)



Mitton - Taking the Responsible Approach to Environmental Considerations

Following the recent establishment of Mitton's Environmental Division, the company has now been commissioned by a number of leading blue chip organisations to carry out energy and environmental surveys on buildings across the UK.

Underlining the company's expertise and commitment to environmental awareness, this service is designed to yield information assisting the end user in calculating carbon footprints for individual properties.

The reports also focus on identifying ways for clients to reduce energy consumption and thereby carbon emissions in line with changing legislation.

Creating the right atmosphere for Wm Morrison Supermarkets Plc

Hilmore House on Gain Lane in Bradford is the new operational centre for Wm Morrison Supermarkets Plc. This purpose-designed flagship HQ building has successfully brought together remote offices from around Yorkshire, providing centralised support to the company's business across its stores, manufacturing and distribution sites.

With the stated aim to provide a pleasant and stimulating working environment, Morrisons involved Mitton from the earliest stages of design development, working in partnership with the client, architects, structural engineers and design team to formulate a brief meeting the stringent requirements.

"...a modern, hi-tech working environment..."

"Even with the exceptional temperatures in excess of 35°C recorded last summer, Mitton's systems successfully maintained internal temperatures at 22°C, with fluctuations of less than half a degree despite the outside heat."

Property Director, Roger Owen

Hilmore House is a modern, hi-tech working environment, spread over four floors and complete with atrium. Mitton was responsible for the design, installation and commissioning of the total mechanical services facilities throughout the building.

Climate control is provided via a four pipe fan coil unit heating and cooling air conditioning system, operating through a total of 500 units, each individually controlled and linked to the building management system. A fresh air ventilation system provides the necessary fresh air allowance for occupancy, and to meet the new Part L building regulations, heat recovery is achieved on the main air handling plant with the use of desiccant heat wheels.

Mitton provided hot and cold water installations for toilet and canteen

facilities throughout the building, with a rainwater recovery system providing water to all sanitary appliances, achieving significant cost savings.

With environmental considerations including efficiency and 'green' issues constituting an important part of the project, Mitton also provided lighting controls linked to building management system. Remote monitoring of the entire system allows Mitton to identify at an early stage any issues which may detract from the effective running of the building.



Mitton takes on Principal Contractor roles

Mitton Mechanical Services is now increasingly requested to act as principal contractor on projects undertaken by the company. Using established expertise, Mitton successfully brings together all elements of a project to ensure swift and efficient completion in compliance with all CDM regulations.

Recently completed contracts with Mitton as Principal Contractor include:

Calderdale Primary Care Trust Loan Store and Wheelchair Unit

Upgrading facilities for reprocessing equipment at Calderdale PCT's loan store and wheelchair unit, Mitton's work included alterations and extensions to mechanical and electrical services to allow for expansion of decontamination facilities, working closely with



Consulting Engineers RAH & Associates of Harrogate.

Mitton managed all electrical works including wiring and power distribution, as well as all above and below ground building works.

UniChem Ltd, Chessington



Mitton has enjoyed a long term relationship with UniChem, the UK's leading distributor and wholesaler of pharmaceutical, medical and healthcare products. This latest contract, won by competitive

tender, called for alterations to the chilled water system to allow the existing chillers to service the computer room only. The contract also required that provision be made for the installation of new chillers at a later date.

Mitton installed new distribution pipework running to the existing computer suite and connecting to two existing downflow air handling units, as well as installing a new downflow unit. Spare connections were left off in the ceiling void complete with isolation valves for future provision of two additional downflow units.

Mitton worked very closely with the client to meet exacting deadlines on this project. Temporary cooling facilities were provided by the client to maintain temperatures in the computer suite while Mitton carried out final modifications and alterations to pipework, achieving a minimum shutdown period in line with operating requirements.

Mitton at work Nationwide

Institute of Our Lady of Mercy, Harrogate

Upgrading facilities for the sisters of the Institute of Our Lady of Mercy at Hampdon House in Harrogate, Mitton has completed significant alterations to the domestic hot water services to improve facilities in line with current regulations. In addition, the company installed new supply and return hot water systems from a second floor plant room, running throughout the main building and terminating at existing baths and showers.

Institute of Our Lady of Mercy, Newcastle upon Tyne

Mitton has also completed a similar project for the Institute of Our Lady of Mercy at St Anne's Convent in Newcastle upon Tyne. Here, the company removed redundant pipework and equipment, and supplied and installed boiler shunt pumps in the boiler house. Alterations and extensions to heating open vent pipework and domestic hot water installations were completed, including replacement of water storage tanks.

Fitness First, Northampton

Fitness First is the largest gym, health and fitness club operator in the world with more than 170 centres in the UK. At the Northampton centre, Fitness First was experiencing problems with the existing gas supply, which was inadequate for purpose in the light of changing regulations.



Mitton installed a new gas supply from the meter around the building, connecting to existing heating and hot water plant to maintain heating and water supplies to the gym, in compliance with CORGI regulations. In addition, Mitton upgraded the

existing cold water storage facility to distribute cold water efficiently to various parts of the building.

31-33 Newport Road, Cardiff

Originally an office building, 31-33 Newport Road in Cardiff is in the process of total refurbishment for Home Office use.

Mitton has been contracted to supply and install all domestic water services throughout the building, including supply and installation of above ground drainage for additional toilet and showering areas. With the project scheduled for completion by the end of April, Mitton has already completed and handed over Phase 1 - one entire floor of the building - on time, to schedule and within budget.

Holme Mills, Marsden, Huddersfield

This is the first project carried out by Mitton on behalf of Havercroft Construction Ltd of Brigg, Lincolnshire, carried out for Lila Hurst Limited, part of the James Holdsworth Group.

The contract called for the design, supply, installation, test and commissioning of a domestic hot and cold water system, with low pressure hot water heating to office areas, mechanical ventilation including toilet extract, sanitary ware and above ground drainage as well as a warm air LPG fuelled heating system to the warehouse area.

