

# RECENTLY COMPLETED PROJECTS

## Mitton Resolves Water Issues at Well Springs

At Well Springs Nursing Home, a home for the elderly and infirm, Mitton has designed, installed, tested and commissioned new water systems serving individual areas of the building. These systems use mains fed pressure calorifiers which ensure the equalisation of pressures at the thermostatic mixing valves. Mitton has also provided additional secondary return pipe work to eliminate long 'dead legs' along with new secondary circulating pumps to ensure the system meets with all the requirements laid out in the Legionella code of practice.

Through Michael Hall of Hall & Hoyle Architects, Mitton first carried out a thorough survey of the existing water services installations, and found that additional systems had been provided as the building had been expanded over many years. The resulting problem of adding all these systems was an imbalance of water pressures at thermostatic mixing valves. This has now been overcome by Mitton's design and installation.

The installation was carried out over an eight week period, fully co-ordinated by the on-site staff to ensure that interruption to services was kept to a minimum. The project was completed on time and to schedule.

Additional storage facilities have been provided to the kitchen area, as the original installation was fed from a much smaller system which was regularly flattened by the kitchen demand.

Mr Redhead, owner and manager of Well Springs, is extremely satisfied with both the installation provided and the performance of Mitton, and is confident that the design now installed has proved beneficial to the working of the Home.



## Quantity Surveyors Invest In Comfort Cooling

Mitton have utilised their technical experience and contracting skills to install comfort cooling and heating for one of the country's leading quantity surveying companies, Rex Procter & Partners, as part of the refurbishment of their Low Moor offices in Bradford.

are located in strategic positions, interlinked to the internal cassettes via insulated refrigeration pipe work. Room temperatures are then selected by the occupants using the hand held remote controllers, and the room conditions are maintained at comfortable temperatures throughout the year.

The installation was carried out over a four week period and was successfully handed over towards the end of November 2007. Rex Procter & Partners are delighted with the installation, and are already feeling the benefits of having a temperature controlled working environment.

All Mitton comfort cooling systems use R410a refrigerants in line with changing environmental requirements.



## In Safe Hands

Following a competitive tender and an evaluation process Mitton were commissioned to carry out alterations and modifications to the existing water services installations at McAuley Mount Care Home in Burnley.

The contract called for necessary alterations to existing hot and cold water services installations to provide mixed and safe water temperatures at

all outlets used by residents within the care home. These points have now been equipped with thermostatic mixing valves complete with isolating valves, double check valves and strainers limiting water temperatures to 43°C, eliminating the chance of any scalding occurring to old and infirm residents.

Mitton also replaced an indirect hot water storage calorifier, renewing automatic controls including a three port valve arrangement and temperature sensor. New isolating valves were provided and installed on all branches from the mains distribution pipework so that isolation of bedroom blocks could be achieved without the need for

total isolation of the hot and cold water distribution installation.

The installation was carried out over a four week period and was successfully handed over towards the end of December 2007, complying fully with the client's initial request. The inspecting engineer is said to be delighted with the work carried out by Mitton.



## Food Lines Reopened

When Woodhead Brothers purchased a previously decommissioned abattoir at Spalding in Lincolnshire, Mitton were commissioned to provide and install all the necessary mechanical services installations to bring the abattoir back into a fully working production plant. In addition, the building is being further developed and increased in size to cope with additional capacity for the slaughter of both cattle and pigs.

Mitton are now designing and installing the following services into the slaughterhouse, which will meet all current legislation and regulations.

- Steam and condensate
- Gas supplies
- Hot water at 60°C for hand washing
- Hot water at 90°C for sterilisation processes
- Cold water installations
- Hot water at 60°C at 14 bar for washdown processes
- Supply and extract ventilation installations
- Sanitaryware and above ground drainage
- Compressed air installation
- Steam raising boiler plant and associated plant and equipment
- All services to new staff canteen

All services generally run at high level within the building, connecting at low level to new equipment being provided by specialist companies from all over Europe.

The building is currently in the construction phase, with handover scheduled shortly to enable the client to commence operations.



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Mitton operates nationwide with offices in Bradford, Northampton Swindon and Livingston.

Mitton  
**insite**

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# MITTON - PROVIDING THE TOTAL COMPREHENSIVE PACKAGE

Investment in expertise, equipment, facilities and people has placed Mitton in a unique, market leading position to provide a comprehensive, professional mechanical services package to customers nationwide.

From initial specification through to installation and commissioning, from aftercare support through to building management systems, Mitton provides specialised services designed to meet all legislative and operational requirements.

Mitton's Contracting division is responsible for the design and installation of systems, from small contracts to large multi-million pound, multi-site projects. Working with a directly employed team of more than 175 skilled and trained individuals, we successfully bring together significant experience in and understanding of all aspects of building services.

Our Contracting division is backed up by Aftercare, our service and maintenance division which operates nationwide from regional offices in Livingston, Bradford, Northampton and Swindon. We provide both planned maintenance visits and 24/7 emergency call outs, employing over 100 trained and professionally qualified staff and fielding a 4 hour contract call out facility to our installations and clients.

Our core work is complemented by Mitton Environmental Solutions, working closely with clients to assist in reducing carbon emissions and maintaining excellent levels of energy efficiency. Using our engineering expertise and in house 'Trend' building management system, we also

provide effective total site management, detecting and responding to issues before problems arise. Mitton Environmental Solutions also looks into the running costs and possible payback periods of proposals to ensure they are a viable proposition before work commences.

Our newest division, Mitton Air Conditioning, has now been in operation for over two years. The service provided ranges from planned maintenance visits, emergency call outs and tendered work. Systems installed range from simple single split wall or ceiling mounted units, through multi split systems and Variable Refrigerant Volume systems to heat recovery systems and computer hall installations.

With a booming order book for the coming year, we at Mitton are confident of achieving our growth and development targets, as well as opening our doors to new clients seeking to establish positive and mutually beneficial commercial relationships.



## A DAY IN THE LIFE OF..... Mitton Aftercare, Northampton

Mitton's four divisions work closely together to provide a comprehensive package of building services solutions for customers.

The Aftercare division plays an important role in every area of the business, from Contracting and Environmental through to Air Conditioning, providing qualified back-up and support services to customers from strategically located sites throughout the UK.

A typical log of calls handled by teams based at our Northampton offices during a 24 hour period on Tuesday, 22 January 2008 shows the diversity of work carried out by the division.



**03:07**

### Emergency Call Out

Received through our 24 hour call out facility. Engineer attends site. He identifies an air handling unit failure and detects through a series of on site checks that the fan contactor is faulty. He replaces the contactor from van stock tests the unit and leaves it in full working order.

**08:30**

### Planned Maintenance Visit

From our service and maintenance computer software programme a service visit has been planned. A team of engineers carries out a thorough inspection and annual service of heating and ventilation equipment as per contract specifications.

**09:50**

### Quoted Repair

Following a recent planned service visit a fault was identified on a fan unit providing heating through a high level gas fired heater. A quote was provided and accepted and an order placed to replace the unit. The engineer completed the task and recommissioned and tested the unit.

**11:30**

### Planned Maintenance Visit

From our service and maintenance computer software programme a service visit has been planned. A thorough inspection and annual service of the air conditioning equipment is completed in line with the contract specification.

**13:25**

### Emergency Call Out

A call out is received at our Northampton office and an engineer is dispatched to site. He identifies a leaking air conditioning unit and replaces the condensate pump from the van stock. The unit is recommissioned, tested and left in full working order.

**14:05**

### Trend Alert

Through our building management system we are alerted by an alarm from one of our Trend sites. The fault is identified remotely prior to the engineer attending site and it is found that two out of three boilers have locked out. The engineer attends site with the necessary replacement parts to complete the task on one visit. The fault has been identified and the repair completed without any impact on the user's operations.

**15:00**

### Scheduled Commissioning Project for Contracting Division

An engineer is dispatched to one of our contracting sites to carry out a full test and purge of a new gas installation. Following the test the remainder of the system is commissioned to allow the contracting division to hand over another successfully completed project.

**16:30**

### Plumbing Call Out

A call out is received at our Northampton office and an engineer is dispatched to site. He identifies the toilet not flushing, replaces the syphon and checks for leaks. The unit is left in full working order and the engineer leaves site.

**21:15**

### Emergency Call Out

Received through our 24 hour call out facility. Engineer attends site. He identifies a faulty control valve on the air handling unit. The unit is isolated and made safe and a report is completed. Diarised return the following day with a second man for safe high level access and with the necessary parts.

## KEEPING COOL AT MITTON



Projections suggest that annual growth in the UK air conditioning equipment market will be relatively consistent from 2007-2011, achieving from 1% - 2% throughout the forecast period.

In 2011 demand for air conditioning equipment is forecast to reach £731.8 million (at 2006 prices), representing overall growth of 8% in real terms compared with 2006.

Mitton Air Conditioning is an ever growing and profitable part of the business, as clients recognise the need to create a comfortable working environment by providing air conditioning to office spaces prompted by high internal heat gains produced by office equipment.

Each and every system is designed to individual customer requirements to optimise energy efficiency and minimise carbon emissions.

Business has more than doubled over the past 12 months, with projects including both retrofit and new build as well as replacing old ozone-depleting R22 refrigerant systems which legislation states must be phased out by 2015.

## REGIONALISING THE 'TREND' BUILDING MANAGEMENT FUNCTION

For some years, Mitton Environmental Solutions have operated the 'Trend' Building Management System centrally from our Head Office in Bradford.

In line with the regionalisation of our Aftercare service and maintenance function and the national focus of our business, the decision has been made to place Trend trained engineers at our offices in Bradford, Livingston,

Northampton and Swindon. Operating from these centres, we are now able to control, monitor and interrogate sites on a regional basis, giving us the opportunity to react quickly and accurately to issues highlighted by the Building Management System.

The 'Trend' function is now controlled in Bradford by Karl Robinson, linking seamlessly to specialists in each of our Aftercare divisions:



**Ryan Yates**  
**Alan Haughian**  
**Alasdair Henty**  
**Paul Yeoman**

**Bradford**  
**Livingston**  
**Northampton**  
**Swindon**

With 'Trend', Mitton Environmental Solutions are responsible for one of the largest building management networks in the country, looking after a range of systems from simple installations through to business critical applications and managing over 500 sites across the UK.

## CONTINUED INVESTMENT IN TRAINING High Achieving Mitton Apprentices



Mitton is committed to the philosophy of training and mentoring apprentices to ensure the availability of professionally qualified individuals to staff all areas of the business.

This year, we are pleased to announce further significant successes by our apprentices:

**Heating & Ventilating Contractors' Association**  
Stuart Rubery: HVCA Regional Apprentice of the Year

**Leeds College of Building Awards**  
Stuart Rubery Award for Excellence H&V 4th Year  
Ian Silburn Award for Excellence H&V 2nd Year  
Shaun Beswick Award for Excellence H&V Service and Maintenance 3rd Yr

Congratulations to all Award winners and to all our apprentices who continue to achieve recognition in their studies.

## BUILDING CO<sub>2</sub> EMISSIONS RATE CALCULATIONS

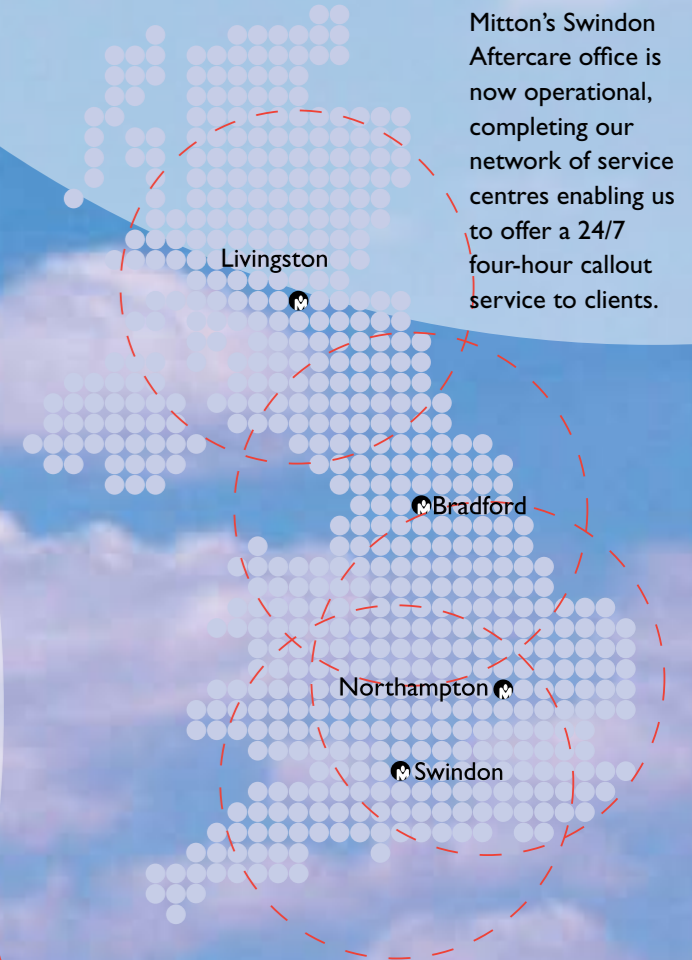
One of the first organisations to be registered with BESCA, Mitton recognises the increasing need for building services companies to make a qualified contribution to optimising each and every build in terms of carbon footprint.

As a member of BESCA's competent persons scheme, Mitton is able to self certify work carried out under Parts F (Ventilation) and L (Energy Efficiency) of the England and Wales building regulations. Mitton currently has four engineers qualified as accredited certifiers for the scheme.

Mitton has also achieved Competent Persons status with the Building Research Establishment (BRE) for Building CO<sub>2</sub> emissions rate calculations. Richard Kincaid is now authorised to use the BRE Certification mark when undertaking buildings CO<sub>2</sub> emissions rate calculations on behalf of Mitton.

This is a service provided to all our clients, calculating the energy performance of new commercial/ industrial/ retail buildings in line with the Government-defined SBEM (Simplified Building Energy Model) requirements in accordance with Part L Building Control Regulations.

## SERVICE & MAINTENANCE: Nationwide Quick Response from Mitton



Mitton's Swindon Aftercare office is now operational, completing our network of service centres enabling us to offer a 24/7 four-hour callout service to clients.