



Oldbury: AHU Refurbishment

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### 1 CLIENT BRIEF

With along standing relationship with the team at George Birchalls Ltd, Mercury were approached project to work in collaboration. A retail store local to Oldbury, was suffering from a shortage in heating and air flow due to various Air handling units (AHUs) not been operational. The brief set was to attend the site and complete a full dilapidation report outlining the condition of the AHUs and reasons for failure, along with proposed solutions. There were a total of 25 AHUs and extract fans to address.

### 2 OUR SOLUTION

The dilapidation report highlighted the need for a full refurbishment of all the units, and recommendations for installing new gas burners with revised loading to suit the store layout. As needed we also recommended the client consider new direct drive EC fans to deliver the designed air volume needed which would reduce energy consumption.

The site posed some challenges; small site with little room for manoeuvrability of the AHU units to be installed meant we had to think on our feet. We proposed as a solution to raise the height of the units to accommodate the new fans and burners which allowed the installation to go ahead and benefited the store with improved access for future maintenance.

### 3 PROJECT RESULT

Like with any project, unforeseen obstacles can be found during a project however we were able to offer on-site solutions that worked well to complete the brief set but also improved an already existing problem for the customer. Once completed the end result provided reliable heating to the store that now contributes to a more comfortable environment for employees and customers.

With regular maintenance, the new refurbished AHUs should have their life extended for approximately ten years.



MCSCS004

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The work carried out was particularly challenging throughout this project and would like to thank the Mercury for their mechanical services.

Although complicated, the project was completed in a good manner and with little to no disruption to the client. So much so the hand over was completely 'snag free'. Look forward to working with you on our next project.

**W. R. Hulse, Contracts Engineer**  
*George Birchall Limited*

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