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### **R22 REPLACE DELIVERS A 44 PER CENT REDUCTION IN ENERGY USE FOR ALFA LAVAL**

Results from a year-long study monitoring the performance of upgraded air conditioning units at the UK headquarters of the leading global industrial solutions provider, Alfa Laval, has seen a 44 per cent drop in overall energy use. Having replaced aging R22 air conditioning units with five new City Multi YHM-R2 Replace technology systems, the company now benefits from energy efficient, market-leading technology.

The new systems from Mitsubishi Electric were monitored using its M2M technology and show an improvement in Seasonal Coefficient of Performance (SCOP) from 3.32 to 4.86 and a major jump in Seasonal Energy Efficiency Ratio (SEER) from 2.65 to 6.00 over the old system.

Alfa Laval's UK headquarters in Camberley, Surrey was built in the mid-1990's and whilst its 12-year-old R22 air conditioning was still running well, it was nearing the end of its useful operating life. As a leading global producer of specialised products and solutions used to heat, cool, separate and transport a variety of products, it was important to Alfa Laval to find demonstrable ways of maximising energy efficiency at its headquarters.

The forward-thinking company was also aware of EU Ozone Regulations and the imminent phase out of the refrigerant and eager to replace its R22 heat-recovery system.

"The offices are used 5-days-a-week so we needed a product that would help us keep disruption to an absolute minimum," explains Mark Walters of Independent Heating & Cooling, who carried out the replacement. "The ability of the R22 Replace technology to reuse much of the existing pipework, wiring and power supplies offered just that and along with our installation expertise was a key factor in securing the contract for us."

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The old equipment included both Mitsubishi Electric and other manufacturer's R22 equipment but the Replace technology can happily accommodate most major brands.

Mark Walters and his team carried out the work over several months to minimise impact on the day-to-day running of business for Alfa Laval and five new City Multi YHM-R2 Replace technology systems now provide simultaneous heating and cooling over the top two floors of the company's HQ. The building is occupied between 8am and 6pm during week days and due to a number of individual meeting rooms there is diverse requirement for heating and cooling within the building.

The air conditioning is controlled locally with PAR-27MEA controllers linked to a time clock, overseen by three central GB50 controllers. This will allow for improved central control and more intelligent scheduling bringing greater control over energy use throughout the week.

Alfa Laval was impressed at how little its business was disrupted whilst the upgrade took place and their staff noticed little change, apart from an improvement in their overall comfort levels.

Overall, Alfa Laval has seen a 44 per cent reduction in annual energy use and this equates to a reduction in estimated annual running costs of around £4,200, and also helps to reduce Alfa Laval's emissions by over 17 tonnes of CO<sub>2</sub> per annum.

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### **Note to editor:**

Founded in 1921, Mitsubishi Electric is a global, market leading, environmental technologies manufacturer, producing an advanced range of heating, air conditioning and ventilation equipment. The company realises that ensuring the right solutions are selected for each individual building, requires collaboration by all involved. Mitsubishi Electric has therefore changed the way it does business to ensure engagement with all involved in delivering sustainable buildings so that together, we can make a world of difference.

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