

Case study 438

Andrews guide Charlton towards market-leading cooling solution

The summer of 2015 saw Charlton Athletic make a substantial investment in The Valley's West Stand air conditioning in order to enhance the level of comfort cooling available to spectators and hospitality guests. Andrews Air Conditioning were consulted by the football club and asked to help source an environmentally-friendly substitute that was fully compliant with EU guidelines.

By thoroughly analysing the operations of our client, we were able to propose a suitable solution capable of delivering equipment to cover an array of environments – including office space, private rooms and hospitality suites. A number of options were initially explored while we reviewed the specific needs of the facility. Once a course of action had been determined, our plan was presented to the customer with the benefits outlined in comprehensive detail.

We identified Mitsubishi Electric's VRV 'above-ceiling' units as the most appropriate for this particular project, while heat recovery ventilation was also recommended to help temper incoming air. Individual room controls enable temperatures to be adjusted easily, with each system connected to centralised devices fitted with web browser interfaces – a feature that maximises user control.

Before the changeover could commence, a team of Andrews Air Conditioning technicians oversaw the safe removal of all existing R22 equipment subject to replacement. Modern, energy-efficient cooling apparatus was then installed in its place, representing a reliable and more flexible alternative to the previous air conditioning arrangement. Working timescales were clearly outlined prior to this phase of the development, and this ensured all planned activities could proceed without interruption.

Having worked alongside the client for a number of years, we already had an excellent understanding of how their business functioned. This knowledge allowed the transitory period in which the original units were decommissioned to run without causing any obstructions. As a result, we are delighted to announce the stadium's main stand is now equipped with up-to-date and economical systems that offer far greater cooling capacities than the units we replaced. Our state-of-the-art solution also allows for future adaptations should the heat load change, reflecting the importance we place on implementing strategies with a long-term focus.



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