

# Air Conditioning

## Case Study Charlton Athletic Football Club

Making a  
World of  
Difference



## Remote monitoring helps the Addicks reduce energy use

Charlton Athletic Football Club has installed a new monitoring system for its air conditioning which will ensure the club keeps its energy bills to a minimum and lowers its carbon footprint.

The Remote Monitoring Interface (RMI) from Mitsubishi Electric allows the club to monitor the energy used throughout the ground's conference and hospitality areas and ensure that rooms are comfortable when required but also not being heated or cooled when empty.



Air Conditioning | Heating  
Ventilation | Controls



**Andrews Air Conditioning quickly identified the RMI controller as an ideal addition to the existing air conditioning.**

**The controller enables the club to monitor energy consumption and gives full control throughout the complex.**



In addition to match days, these areas are used extensively throughout the year and the RMI system provides the operational team with full monitoring and control at a fraction of the cost of a full metering and monitoring package.

The stadium is in almost constant use, so the installation needed to be carried out with minimal fuss and disruption, with the requirement that the system could handle any future expansion.

The club contacted Andrews Air Conditioning with a detailed brief to look at what could be done with the existing system of City Multi variable refrigerant flow (VRF) air conditioning, which serves a wide range of areas, from general office space to the main hospitality and conference areas.

Lee Wilks, Divisional Director at Andrews Air Conditioning, quickly identified Mitsubishi Electric's RMI controller as a potential solution. "RMI can manage several different systems and would allow the staff at The Valley stadium to monitor performance and control energy consumption. The versatility of the system is particularly useful, especially in this instance of a stadium environment where large areas are unoccupied for periods of time and at other times have full occupancy."

With the system successfully installed and up and running, Charlton Athletic staff are also able to remotely access the system using smart phones or tablets. This allows them to set temperatures on individual units, programme the system to respond to special events, and view performance using highly visual energy graphs.

RMI runs over the cloud and can be operated on almost any smart phone or tablet, thanks to an App designed to work equally well on either IOS or Android. A protected Virtual Private Network (VPN) connection ensures that all data is protected and prevents uncontrolled access.

Once a user has logged in on their PC, smartphone or tablet, they can instantly interact with the system and, if necessary, assign certain areas to other sub-users.





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### Installation Summary

**RMI (Remote Monitoring Interface) is a cloud-based control system that allows Charlton Athletic to monitor energy used in the stadium's conference and hospitality areas.**

**The controller works with the existing City Multi air conditioning and can control several different systems at once.**

**The RMI system can be run on almost any smartphone or tablet and allows Charlton to ensure that the stadium is not wasting energy when areas are unoccupied whilst giving full comfort control to other rooms.**



A router establishes a protected communications channel to the RMI server and the modularity and flexibility of the server allows the system to store and manage the huge amount of data that it is capable of collecting.

As one of the early UK adopters of the technology, The Valley is now able to boast one of the most sophisticated air conditioning monitoring systems in the country.

The installation was carried out with minimal disruption and the system is already proving its worth.

The RMI system enables the club to monitor their energy consumption and give full control of the air conditioning.



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