

Client: Warner Music UK

Location: London

Sector: Commercial

Project value: £100,000

Project: Chiller Upgrade/Replacement Project



Brief

Our client requested that we replace a single carrier packaged, air cooled chiller, operating with R22 refrigerant. We were also asked to complete a full application analysis in relation to the potential new chiller plant options. Energy efficiency, compressor technology, refrigerant options, site physical restraints, as well as financial frameworks, all had to be considered before the final chiller selection could be agreed. Our client had a particular requirement that the works needed to commence on a Friday evening, with a target completion date on the following Monday at 12 Noon.

Action

The mechanical services scope of works that followed encompassed the de-commissioning of the redundant carrier chiller and the supply, installation and commissioning of a new Daikin air cooled, packaged, water chiller (rated at 350Kw). This chiller incorporated screw compressor technology, HFC R134a refrigerant and DDC microprocessor controls. The installation works included chilled water pipe work alterations, electrical mains power distribution, BMS controls wiring and associated interlocks with pumps and safety systems. A crane lift operation had to be implemented to remove the redundant equipment and lift the new chiller in to position; this meant obtaining a permit from the local authorities for a road closure in Kensington Church Street on the Sunday morning. Once the new plant was set to operate, the final commissioning of flow rates, together with the optimisation settings for the chiller, were completed.

Outcome

By adopting a planned approach with an hour by hour project program, the works were completed over the weekend period and chilled water was re-established to the building by 9.00am on the Monday morning; three hours ahead of schedule. Organisation was vital in this project and we pride ourselves on our ability to deliver a first class service, on time and on budget.

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