

Case Study – Middlesex St

Location: London.

Total Contract Value: £35k

Year: 2009

Job type: R422D Retrofit



CBAC Services Ltd were asked as a specialist sub-contractor to provide various quotations direct to the client GVA Grimley for the replacement of the chillers and an option to repair and refrigerant retrofit the 5 No Trane air cooled chillers serving 110, 112, 114 Middlesex St, London.

Due to the economic climate and budgetary reasons the client decided they would prefer to repair the existing system rather than replace, make it compliant with the forthcoming environmental regulations to allow time to budget for a more modern and energy efficient system.

Numerous repairs were carried out PCB boards, 2 compressors exchanged, and replacement parts were fitted etc, systems that had compressor replacements or pressure leak tests required were refrigerant retrofitted from R22 to R422D while the system was open.

All 5 chillers, 8 circuits were put back into service, monitored over a period of 2 weeks to ensure oil levels, leaks and gas charge had been completed correctly, the systems performed well with the circuits charged with R422D showing reduced suction & discharge pressures which was expected, this improves cooling efficiency and reduces energy consumption.

The total project was carried out as per the timeline in our program of works with minimal disruption to the buildings occupants which considering the scope of works involved was a great achievement that was reiterated by the client in writing, stating how well the systems now work.