

# Upgrading to a New High Efficiency Chiller System for the Financial Sector

**ANTAC**  
Support Services



Antac removes a failed R22 packaged chiller system and replaces it with a modern high efficiency unit, moving the condenser to an outdoor space to improve cooling airflow.

### Project Key Facts:

- ✓ Airedale Ultima 250 kW air cooled chiller
- ✓ Approximately 30% improved efficiency
- ✓ Remote condenser reduces noise and heat
- ✓ Antac delivers full works programme
- ✓ Temporary chiller provided by Antac

Antac was instructed by ISS to a twenty seven year old packaged chiller at for a financial services customer. The existing installation was located in a first floor plant room supplying chilled water the air conditioning system. One of the compressors within the existing chiller had failed and Antac provided a temporary chiller unit which was connected to the buildings cooling circuit.

### The Challenge

To decommission and remove the existing Trane chiller package and replace it with an Airedale high efficiency chiller, operating R410A refrigerant. The building would be fully occupied during the project, so in order to maintain building cooling Antac installed and commissioned a temporary chiller for the duration of the works.

### The Solution

Antac isolated the existing Trane chiller from the building services. In preparation for removal from the building, the refrigeration gas was recovered,

weighed and disposed of carefully in accordance with F-Gas Regulations. Due to the first floor location, its extraction from the building required the redundant cooling air louvres to be removed to allow a lifting specialist to crane the old chiller from its plinth. Through careful planning the new Airedale unit had already been delivered to site, allowing it be lifted into the plant room whilst the crane was already on site, helping to reduce installation costs. Antac carried out the minor civil works to extend the external below ground service duct to the location of the new condenser and cast a concrete base for it to be situated. The new water supply and return pipework from the condenser was installed via the underground service duct to the new chiller unit. The installation was completed by the installation of new isolation valves, with the system flushed and tested. This enabled the system and connection to the BMS to be commissioned by Airedale's technicians and detailed O&M manuals provided for our customer on completion.



### About Antac >>>

Antac is a multi service provider established in 2001. Over the last 14 years our business has continued to grow and today we provide services throughout the UK. Antac has established an enviable reputation of delivering quality services, value for money and customer care, demonstrated through our long term relationships and business retention. Our ethos is to “deliver what we promise” making us the service provider that you can trust.

Our skilled teams enable us to deliver tailored solutions which meet our clients differing needs. Our strong experienced management team coupled with our highly trained operatives and innovative quality systems enable Antac to deliver excellent services to our clients.

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