

Case Study





Avtrade, Albourne, West Sussex

We've all been there. Stuck in an airport, waiting for a flight, and then there's the dreaded announcement. Flight delays.

There can be a host of reasons for such inconveniences, but one of the more common factors is a technical problem with the aircraft. As we sit and ponder, it rarely occurs to us to wonder – assuming that some part deep within the workings of the aircraft has gone wrong – from where the replacement part is sourced.

What do the engineers do when their 'plane goes wrong? Ring the AA? No, they go on an international database which, to put it simply, catalogues



The bank of air conditioning units

every one of the millions of parts for all the world's aircraft, and tells them where that part is located.

And Avtrade, situated in Albourne, West Sussex may well come up on that database. They stock a vast range of Boeing, Lockheed, Airbus and British Aerospace parts, and

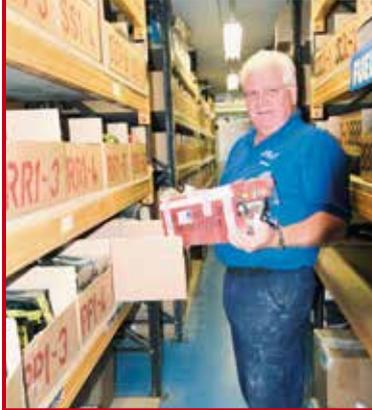


The massive humidity control unit, installed at Avtrade's Albourne centre

being a few miles to the south of Gatwick, are well placed to deliver or fly out any such parts as may be required.

As you would imagine, such an operation requires a slightly more sophisticated environment than the stores at your local garage, with a very exact specification for temperate and humidity levels. So we at Independent Heating were pleased to be invited to tender for heating, air conditioning and humidity control at their new depot – both the stores and their impressive new office accommodation. The exacting requirements were peculiar to their needs, and so we were proud to be granted the contract and subsequently to install the systems with the minimum of fuss

Our work at Albourne is an illustration of the diversity of skills at Independent Heating & Cooling. From the simplest of installations at industrial or retail premises to the much more demanding conditions of specialist applications such as the aerospace industry, we are up to the job.



Avtrade's Roger Gough with one of the ubiquitous 'Black Box' flight recorders – which, it would appear, is actually dayglo orange!

Heating and dehumidification to warehouse area

- 1 x Reznor RPV2096 propane fired, duct mounted warm air heater
- 1 x H B Sorption Wheel Services CRT6000 dehumidification unit with upgraded fan motor
- 4 x Saturn Impellor Sweep de-stratification fans
- 1 x Nordair AB400 Airbloc industrial ambient air door curtain
- 1 x Recirculatory ductwork system with high and low level outputs and Alloway acoustics silencers

Ventilation to internal office areas

- 1 x Elta SQS250 input air and extract air assembly, complete with associated filters and heater batteries.
- 1 x Elta SQS150 input air and extract air assembly, complete with associated filters and heater batteries.

Calor Gas installation

- 3 x 2000 litre Calor Gas bulk fuel storage tanks

Plumbing works

- Supply install water main from incoming supply to building to all sinks, toilets, showers and fridge.
- Supply and install Twyford Bushboard Baseline ready plumbed modules to two male, two female and one visitors/ disabled toilet.
- Combining ready plumbed and finished panels in Oasis, Lapis and Steam (colour) and Galerie Design sanitaryware.



Avtrade's new office accomodation

Technical spec

Air-conditioning to office areas

- 4 x Daikin FFQ60 6kW Heat Pump Compact Cassettes
- 2 x Daikin FHYCP71B 7.1kW Heat Pump Cassettes
- 2 x Daikin FHYCP100B 10kW Heat Pump Cassettes
- 1 x Daikin FHYCP125B 12.5kW Heat Pump Cassette