



▶ IMPROVING REFRIGERATION EFFICIENCIES FOR UK FOOD MANUFACTURER



J & E HALL HAS INSTALLED NEW REFRIGERATION CHILLERS AT A UK FOOD MANUFACTURER, WHICH REPLACES OBSOLETE EQUIPMENT RUNNING ON PHASED OUT REFRIGERANT

CASE STUDY SUMMARY

APPLICATION: Food Processing

LOCATION: UK

OBJECTIVES: To replace obsolete equipment running on phased out refrigerant

EQUIPMENT SUPPLIED: 3 x high efficiency Daikin watercooled chillers,
Model: EWWD – I –XS

“The solution was sold on energy efficiency, simplicity and reliability ”

Linda McVittie - J & E Hall Sales Manager

CUSTOMER BACKGROUND

The client is a world leader in food manufacturing serving the food and beverage industries, and a leading supplier of added value brands and customer branded foods in the UK and international markets.

The client has 15,000 products with 130 manufacturing facilities and a number of major household brands.

WHY J & E HALL?

Due to refrigerant phase-out laws, The client was looking to upgrade some of their cooling equipment and approached J & E Hall to quote for replacement chillers.

J & E Hall was chosen because of its in-depth refrigeration know-how and for providing the best



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CASE STUDY



solution in terms of energy efficiency. They were also able to keep within the client's available budget and sales Manager Linda McVittie states "The solution was sold on energy efficiency, simplicity and reliability".

The client's project manager says, "J & E Hall is well known in the industry and has an established name in offering cooling solutions to the Food and Beverage industry".

DAIKIN EWWD-I-XS CHILLERS

- Water cooled screw chiller
- Stepless single-screw compressor
- Independent refrigerant circuits for outstanding reliability
- Standard electronic expansion valve
- DX shell and tube evaporator - one pass refrigerant side to minimise pressure drops
- Partial and total heat recovery available
- MicroTech III controller with easy interface



THE SOLUTION

Refrigeration is key to the clients manufacturing process. The final project included the installation of 3 x EWWD7510 Daikin water cooled chillers. They are highly efficient chillers and each has a capacity of 478kW. Temperatures range from 26°C to 32°C cooling water and food safe glycol at +1 to -5 °C.

The new equipment was required to replace obsolete equipment and it represented energy efficient improvements. The new equipment reduces CO2 emissions and it also reduces lifecycle costs due to the twin circuit redundancy that is built into the water chillers.

Over the period the units have been installed the client has experienced significant energy savings compared with previous chillers.

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