

KFC restaurant gets an efficiency upgrade with heat recovery air conditioning

Air Conditioning



Kinlochs and Son Limited (KSL) were tasked with transforming a Burger King fast food outlet into a KFC which may sound like a reasonably straightforward task but a recent project in Banbury, Oxfordshire demonstrated that a restaurant refurbishment often requires more than just a change of menu.

Case Study

KFC, Banbury, Oxfordshire

The Banbury outlet had existed as a Burger King restaurant for some time and was starting to look its age, with a dated interior and inefficient air conditioning system

It was clear that the building desperately required a complete overhaul in order to bring it into the 21st Century and switching the standard split type air conditioning system to a VRF heat recovery system from Mitsubishi Electric was an ideal starting point.

Scheduled to take just over seven weeks from start to finish, the KFC franchisee, was looking for a swift turnaround on installation and chose Mitsubishi Electric Diamond Quality Partner, KSL, its preferred mechanical contractor, having already worked successfully with the company in the past.

Kevin Gregory, Contracts Manager at KSL, comments: "Since 2001 we have carried out a number of installations with KFC franchisees and have successfully combined market-leading Mitsubishi Electric technology with a firm commitment to exceptional customer service, delivering efficient and economical air conditioning solutions that stand the test of time."

The Mitsubishi Electric City Multi VRF heat recovery system offers simultaneous heating and cooling, distributing surplus heat from cooling operations to other areas of the building when and where it is required. **This offers significant benefits in the KFC outlet as waste heat from cold room equipment can be recovered and put to good use elsewhere.**



“Our customers invariably recognise that there is no substitute for quality equipment installed by quality engineers and we will continue to recommend the latest Mitsubishi Electric equipment”

Kevin Gregory
Contracts Manager
Kinlochs and Son Limited

KSL had previously helped to introduce a more streamlined approach to franchisee’s air conditioning systems by implementing equipment from a single manufacturer, cutting down on training, support and critical spares costs. As well as air conditioning, Kinlochs and Son Limited can provide bespoke cold rooms, ice makers, extraction solutions and more.

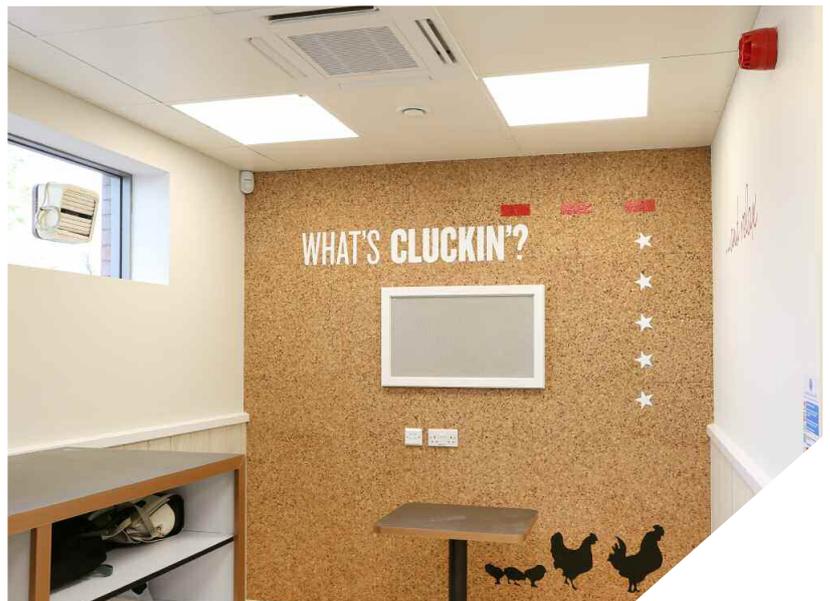
Initial discussions with the Banbury KFC franchisee were focused on keeping energy consumption as low as possible and reducing equipment downtime. Kevin Gregory, adds: “The franchisee was keen on the idea of saving energy via a VRF air curtain and recognised the advantages in selecting an economical system which provides a rapid return on the initial investment. During the summer months the newly installed air curtain will deliver cool air and stop flying insects from entering the premises - a major consideration for food outlets.”

Featuring two-pipe technology for quicker installation and a BC controller for ‘intelligent’ decision making, the new system will deliver instant efficiency savings and could reduce energy consumption by up to 30%.

By individually metering power supplies the franchisee was offered first hand evidence of the potential savings on offer and is now committed to using heat recovery air conditioning systems in the Banbury outlet and all future new builds.

KSL will be responsible for maintenance at the Banbury site and, as a trusted Diamond Quality Partner, were able to offer an extended seven-year parts warranty for additional peace of mind.

Kinlochs and Son Limited provide a 24 hour / 365-day emergency call out facility with a guaranteed response time. For any air conditioning project or planned preventative maintenance requirement, contact the KSL team on **01634 290999** or **sales@kinlochs.net**



Installation Summary

CITYMULTI | CONTROLS

Equipment:

- City Multi R2 Heat Recovery System (PURY-P450YLM-A1)
- Ceiling Concealed Ducted Indoor Units (PEFY-P140VMA-E2)
- 600 x 600 4 Way Blow Ceiling Cassette Units (PLFY-15-50VFM-E1)
- Heat Pump Air Curtain (HP1500DXE)

Controls:

- Remote Controller (PAR-33MAA-J)
- Centralised Controller (AE-200E)



PURY-P450YLM-A1



PEFY-P140VMA-E2



PLFY-15-50VFM-E1



HP1500DXE



PAR-33MAA-J



AE-200E

The Renewable Solutions Provider
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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air-conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No 626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP: 55), R407C (GWP:1650) or R134a (GWP:1300).



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