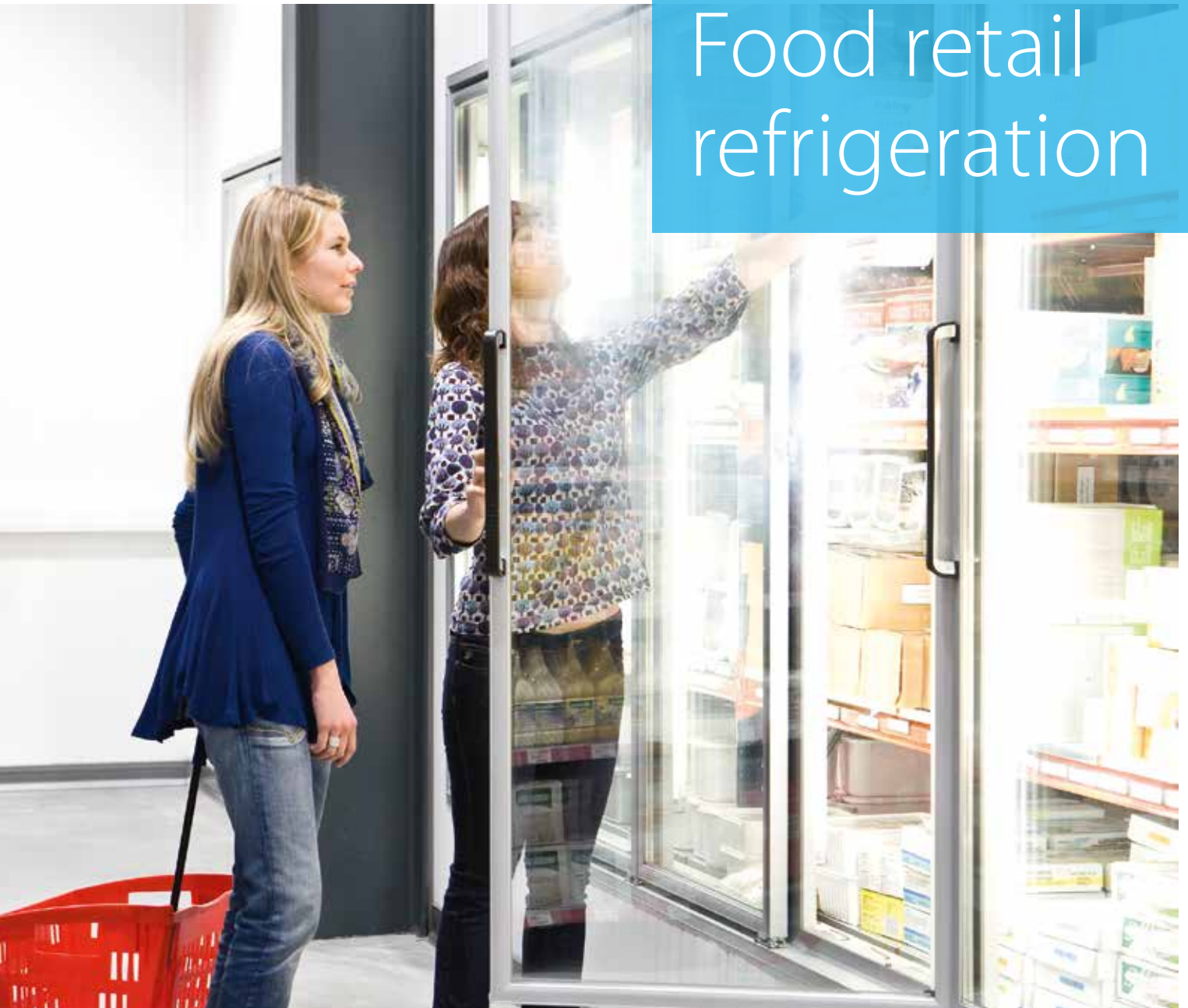




# Food retail refrigeration



Providing versatile, highly efficient, low noise refrigeration solutions

# Refrigeration for food retail

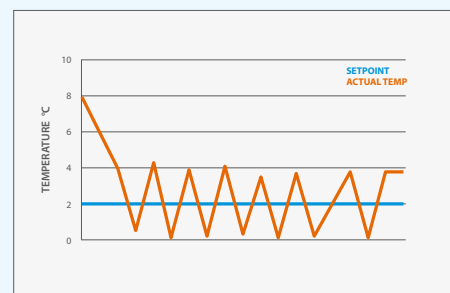
At Daikin Refrigeration we are dedicated to providing versatile, highly efficient, low noise refrigeration solutions. Our industry leading technology provides total reliability and the ultimate in cost and energy efficiency.

The Carbon Trust\* estimates that a **20% cut in energy costs has the same impact on your bottom line as a 5% increase in sales**. With refrigeration held accountable for half of a retailer's entire energy bill, businesses in the food and drink sector could make **major gains by improving the energy efficiency of heating, cooling, ventilation and refrigeration systems**.

Typical refrigeration systems in convenience food stores have 3 to 6 separate condensing units; or in smaller stores display cabinets are "integral" type refrigeration systems, both of which generate noise and unwanted heat.

Daikin Refrigeration solutions remove this by consolidating all separate systems on to one energy efficient low noise condensing unit.

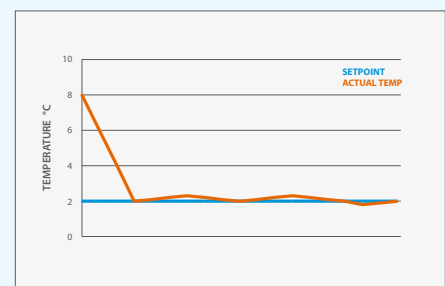
## Typical refrigeration equipment operation



Typical refrigeration equipment maintains the cabinet temperature by switching the compressor on and off. This results in a large amount of wasted energy, typically around 35% of your electricity could be saved.

In food convenience stores this method of operation can cause food stock to freeze and spoil.

## Daikin refrigeration solution



Daikin Inverter driven systems are designed to maintain a constant cabinet temperature, rather than the fluctuating temperatures found in standard systems [shown above].

This means Daikin inverter technology consumes far less power than standard refrigeration.

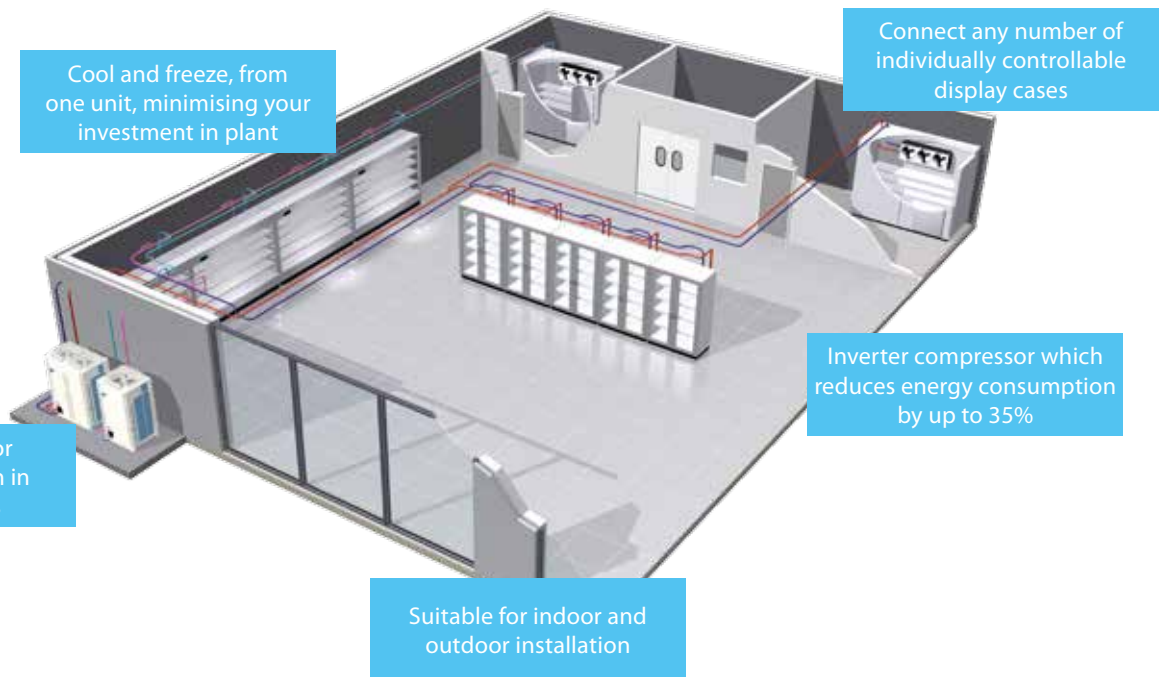
Daikin Refrigeration systems are some of the most energy efficient systems in the market, saving you money by reducing operational costs.

Model: LREQ-BY1

# ZEAS inverter condensing units

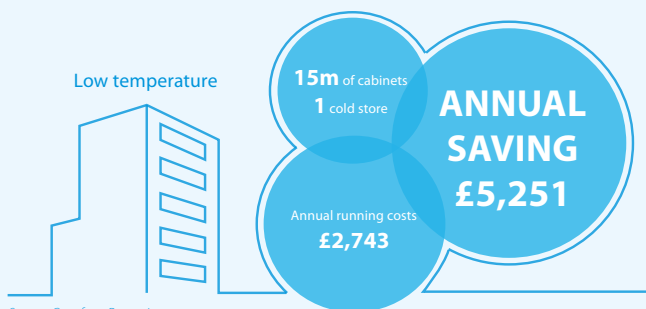
Medium and low temperature refrigeration with less energy

**ZEAS Refrigeration condensing units** are perfect for either low or medium temperature operation and can cool small display cabinets to large warehouses. Powered by Daikin's inverter and a powerful scroll compressor, variable drive speed ensures that temperatures are correctly maintained without wasting energy and supports a wide variety of refrigeration applications.



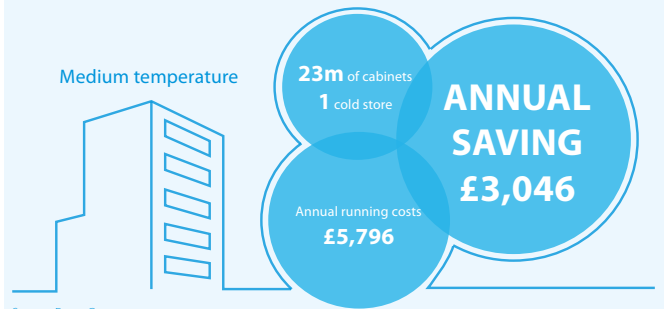
## Real life example:

In a **5,000 sq foot** sales area Daikin installers implemented a system designed for **low temperature refrigeration** and **frozen food** display. **15 metres** of cabinets and **one cold store room** were integrated into the system.



## Real life example:

In a **5,000 sq foot** sales area Daikin installers implemented a system designed for **medium temperature refrigeration** and **fresh food** display. Around **23 metres** of cabinets and **one cold store room** were integrated into the system.





Model: LRYEQ16AY1

# Conveni-Pack: integrated total solution

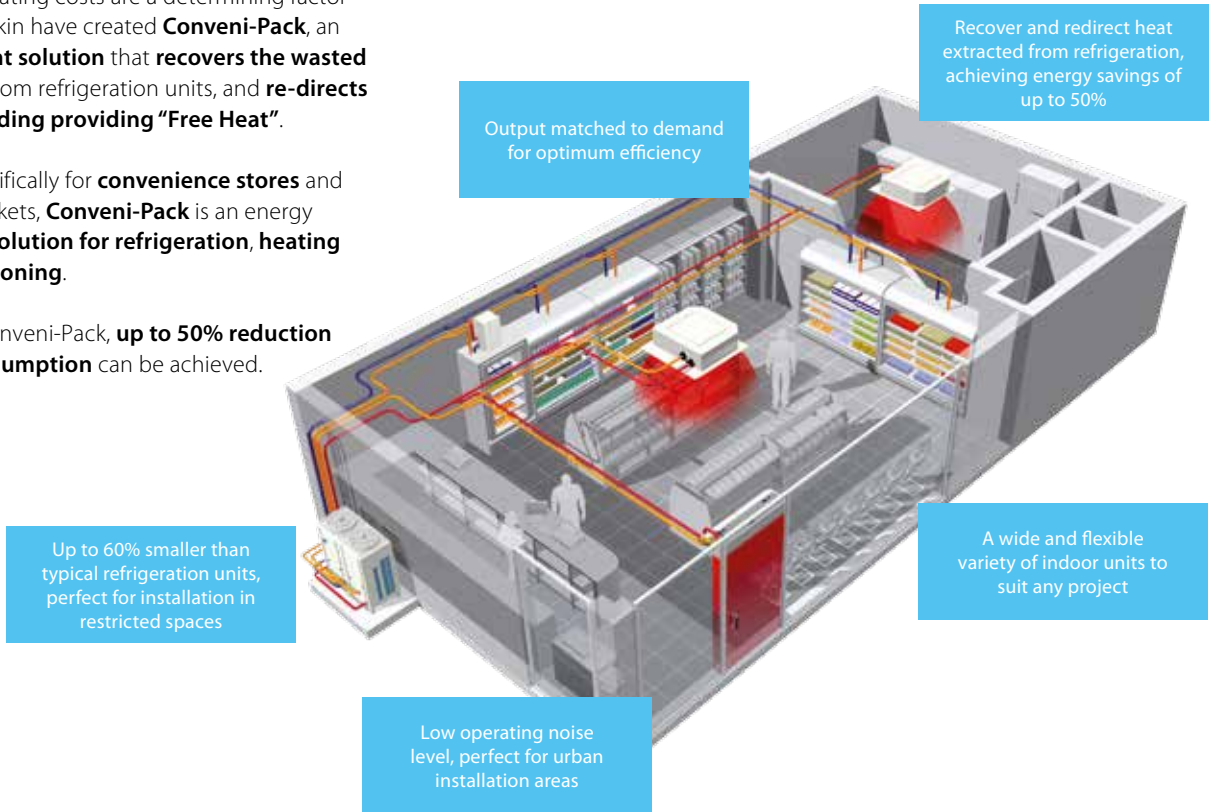
Medium and low temperature refrigeration, air conditioning and heating



Competition in the retail food sector is fierce. Increasing operating costs are a determining factor for success. Daikin have created **Conveni-Pack**, an **energy efficient solution** that **recovers the wasted heat** rejected from refrigeration units, and **re-directs it into the building providing "Free Heat"**.

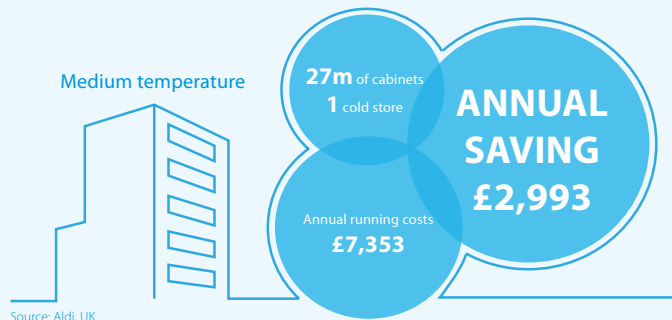
**Designed** specifically for **convenience stores** and small supermarkets, **Conveni-Pack** is an energy efficient **total solution for refrigeration, heating and air conditioning**.

By choosing Conveni-Pack, **up to 50% reduction in energy consumption** can be achieved.



## Real life example:

In a **4,500 sq foot** sales area Daikin installers implemented a system designed for **medium temperature refrigeration** and **fresh food display**. **27 metres** of cabinets and **one cold store** room were integrated into the system, with 3 Conveni-Packs also providing a **45.8kW heating load** and **35kW of Air Conditioning**.



## Want more information?

Contact **Paul Cornwell** and the Daikin Refrigeration team: Mob - **07799 661 670** Email - **cornwell.p@daikin.co.uk**



daikin.co.uk



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