

WM MORRISONS SUPERMARKETS PLC
West Kirby



HCFC Replacement Programme

HCFC Refrigerant change out as part of a three year programme to help reduce Morrisons carbon footprint



Morrisons West Kirby underwent a complete HCFC refrigerant change out of three large pack systems, 2 x LT packs and a larger single HT pack. This is part of the major 3 year programme that Morrisons are currently undertaking to replace HCFC refrigerants within their stores, generally R22 and R408a.

West Kirby is the first of numerous like projects that Carter Synergy and KB will be involved with in close co-operation with the client. R422D also has a benefit to Morrisons in the longer term in that it has a 30% lower GWP (Global Warming Potential) rating than comparable R404a sites which will help in reducing Morrisons carbon footprint.



Project Overview

The packs were originally installed operating with Refrigerant R22. This has been completely replaced over three consecutive weekends in February 08 (Sat 2nd, 9th and final HT pack on the 16th), with Refrigerant R422D. Each weekend we had up to 10 engineers involved changing valves and valve seal kits in the plant room area, cabinet and evaporator expansion valve orifice and schraeders to display cases, incorporating a deep case clean at the same time, and other works including new pressure lines, agreed dilapidation works and commissioning.

Re-commissioning of the systems was achieved with out incident and we were surprised at the speed that the refrigerant could be decanted and recharged using the large pump rig supplied by Honeywell, as per photos.

This was a significant factor in achieving the complete pack gas change in the time allocated, with cabinets and coldstores being handed back to store before 6 am on the Sunday morning of each weekend operation.

continued...



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Enabling works during the weeks beforehand also gave more time on the night and the main charging and decant lines were installed in the weeks prior to agreed locations. In addition, accessible valves, valve seals and pressure lines were changed beforehand to also reduce works to a minimum on the night.

Working closely with the store staff, an agreed demerchandisation programme was produced and adhered to, and the location of the decant rig and charging lines were agreed with store staff, Morrisons refrigeration engineer and Honeywell co ordination personnel in good time before the commencement of the works programme.

The three systems have now been operating successfully with the new refrigerant with ease and coldstore temperatures operating to required specification.

Project Programme

Enabling works commenced 21st January, first weekend refrigerant changeout 2nd and 3rd February, consecutive weekends 9th / 10th and 16th / 17th February with engineers monitoring plant performance and leak checking during intervening week days and week following last weekend gas change out.



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