

# Tipperary Co-op

It's over forty years since SAACKE started working with the Tipperary Co-op in Ireland.

The days of boilermaker Danks of Netherton, founded in 1840, are gone but it was to provide a burner for one of their shell type boilers that SAACKE were first approached in the 1970s.

Over the course of the next twenty years the Co-op added two more heavy fuel oil fired boilers; a boiler with burner SKV110 in 1989 and a third boiler, with SAACKE burner SKV90, in 1991.

Ah, the 90s! The days of heavy fuel oil and mechanical compound regulation controls – Solid linkage was the standard of the day.

Also, we need to remember that at that time HFO was quite cheap – around 3p to 4p litre – so running costs were not high on the list of priorities. However, as the cost of fuel began to increase and the cost of milk decreased, the Co-op began to look hard at their running costs and it was patently obvious that the oldest boiler was costing more and more to run. Their question to SAACKE; “How can you help us?”

passed the savings remained at the same level. Delighted with these results, in January 2004 they converted their No.2 burner to DDCC and achieved similar savings on this boiler.

Turn the clock forward to early 2011 and the Co-op take the decision to introduce gas to the site in line with the Board's commitment to energy management, as outlined by their General Manager, Ted O'Connor:

*“Tipperary Co-op intends to be a leader in energy management. Converting from heavy fuel oil to natural gas alone will reduce our carbon emissions by over 20% and is the equivalent of taking almost 3,000 cars off the road.”*

Given the strength of the relationship that SAACKE had built up with Tipperary Co-op over the years, it came as no surprise that SAACKE was again specified. Where many companies were involved in the tendering for this upgrade to gas, the Co-op were adamant that ONLY SAACKE burners and equipment were to be used.

And so we find SAACKE providing a Dual Fuel conversion kit to convert the oil only burner to dual fuel (light oil/natural gas). The kit included gas register, gas controls, and a direct drive electronic touchscreen control system for installation into the existing control panel. They also fitted an oxygen trim probe to optimise combustion efficiency and to save fuel and energy. The new electronics of the new millennium had arrived.

This conversion was followed in the summer of

2011 with the installation of a Dual fuel Light Oil/Natural Gas burner, type SKVG-A 102 Duobloc Burner with electronic compound regulation, combustion air fan, gas train and touchscreen digital controls. In addition, SAACKE also fitted an inverter for variable speed combustion fan and oxygen trim controls, again to optimise fuel and electrical energy usage.

The SKVG-A, delivering high levels of improved performance, is a new style of rotary cup burner with improved atomiser assembly design and tip shut off at the back of the atomising cup. It was fitted to a single furnace shell type boiler of 16,140kg/h from and at 100degrees C steam output, operating at 17.2 barg.

*“Tipperary Co-Op engaged with Dalkia to deliver the Boiler House Conversion Project in early 2011 and following completion in May-2011, to date the upgrade has delivered monthly system efficiencies in excess of 88% (LCV) during peak production and 85% during off-peak production periods. Tipperary Co-Op and Dalkia continue to monitor performance on a daily, weekly and monthly basis to ensure optimum savings are delivered as a result of the project.”*

So, after all these years, how does Tipperary Co-op rate SAACKE? Over to Richie Corcoran, Dalkia Site Supervisor;

*“Their response times are fantastic and every time they've been on site, they've been terrific. The reliability of the kit is very, very good and SCanView is brilliant; very user friendly.”* ✨

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Pictured in Tipperary Co-op for the natural gas switch-on are John Hunter, Assistant General Manager, Simon Coveney, Minister for Agriculture, Marine & Food, Matthew Quinlan, Chairman & Ted O'Connor, General Manager. Photo O'Gorman Photography

At this time SAACKE were supplying electronic combustion control (DDCC) units that gave considerable savings, so they took personnel from Tipperary Co-op to visit other installations with DDCC units fitted.

Impressed by what they saw, the Co-op specified the DDCC unit and started to achieve considerable savings from day one of commissioning. Whilst some of these savings could be put down to new equipment, as time