



CASE STUDY: Kilmurry Lodge Farm, Ballyneale, Co. Tipperary

An established dairy farm with a 210 head herd required twice daily milking and bulk tank hot water wash up to four times a week

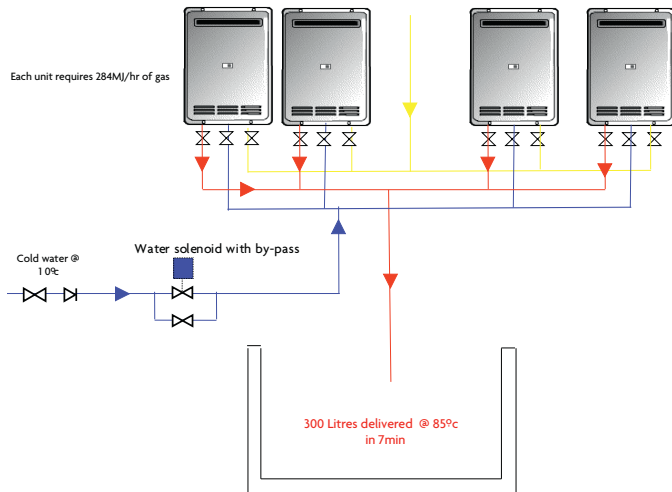
Expansion from 130 to 210 head of cattle required an upgraded water heating system for their new milking parlour. A reliable and ample hot water supply was identified as an essential component in managing hygiene in the dairy and controlling the Total Bacteria Count (TBC) of milk produced. Hot water is required for washing the milk lines and the bulk milk storage tank. The pre-existing electrically powered installation was not capable of providing enough hot water at a sufficient high temperature. A better system of water heating that could meet the needs for the new milking parlour was required. Calor were contacted to design a suitable installation.

Installations around the world were assessed to determine best practice. Examples of successful direct gas powered water heaters were identified on dairy farms in New Zealand.

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Calor, working with James Walsh of Kilmurry Lodge Farm, Rinnai and milking equipment specialist, De Leval, recommended the installation of four Calor powered Infinity Rinnai water heaters each rated at 67kW.



NOTE: This shows four Calor powered Rinnai Infinity water heaters that provide up to 300L at 85°C for use after 7 mins. Each unit requires 284MJ/hr of LPG.

This solution provides consistently hot water at 85°C, the water is used to wash milking lines up to twice daily and the bulk storage tank approximately every second day. It would have been impossible to achieve this performance with an electrically powered system because of the very long heat up times and storage losses associated with electric hot water storage systems. The Calor powered Rinnai hot water system is capable of delivering 300 litres of water at 85°C in just 7 minutes.

Hot water storage costs are eliminated with this system as water is heated only when it is required. The farmer no longer needs to worry about running out of hot water for his dairy parlour.

Kilmurry Farm benefits from a reduced risk of monetary penalties resulting from higher than permitted bacteria counts in the milk. This system can be run with automatic or manual dairy washing systems.

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THE BENEFITS AT A GLANCE

- Infinite hot water on demand
- Standby hot water storage losses eliminated, as water is heated only when it is required
- Varying hot water demand profile can be met
- Additional bulk tank washing requirement catered for without affecting washing of milk lines
- Can be used in conjunction with both manual and automatic washing systems
- Improve TBC and avoid penalties with a better washing regime that hot water on demand allows
- Lower carbon hot water solution
- Delivers up to 300 litres of water at 85°C in just 7 minutes

About Calor

At Calor, we have been delivering innovative energy solutions for over 70 years. Our team can deliver a complete tailor-made energy solution for your needs. By working with manufacturers of renewable technologies, we stay at the cutting edge of developments in the energy industry. Accordingly, we recommend the most energy efficient solutions for you, allowing you to keep pace with changing building regulations and reduce CO₂ emissions.

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