

Date: 27 October 2023

Re: Improvement Condition 19 – Refrigerants Overview

Dear Kirsty Thomas,

Following the NRW review of Improvement Condition 19, please see the additional information below, as requested:

Use of R404A

The company has investigated two options for replacing the current deep freeze (using R438A and R404A) and chill room (using R438A) refrigeration units. This will take place in 2025 or 2026. The options are:

1. A new dual temperature transcritical CO2 system. This will include relocation of the new refrigerant plant to an external location on site. CO2 has a GWP of 1, making a preferable alternative to higher GWP refrigerants.
2. An alternative solution will be to install a glycol system.

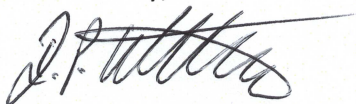
At this stage, the feasibility of both options is being explored and no final decision has been agreed as yet.

Replacement of other high GWP cooling apparatus

Although changes to refrigerants and refrigeration systems must be economically viable, Dairy Partners remains conscious of the high GWP systems in use and employing best practice to reduce or remove such systems, where possible. The immediate focus is on replacing the refrigeration systems in the deep freeze and chill room which will be an expensive endeavour for the company.

It is proposed that if any other system is rendered unserviceable, the units will be repaired and the refrigerant will be replaced with R513A as an alternative.

Yours faithfully,



Daryl White
Site Manager
Dairy Partners (Cymru Wales) Limited