

CO₂: The Inconvenient Truth

Doubts have recently been raised about the actual 'green' credentials of CO_2 (R-744) due to its inherent lower energy efficiency. There are now better and long-term sustainable technologies for retail refrigeration systems, like the very low GWP OpteonTMXL solutions.



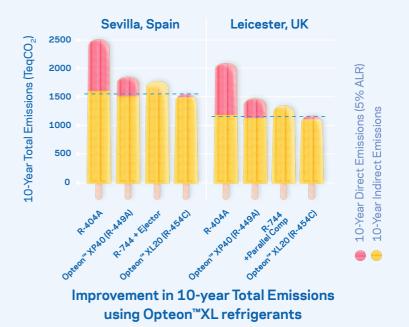


The EU F-Gas regulations primary focus is low GWP not cost, so compared to the high GWP R-404A, CO_2 (R-744) appeared to be a good choice... **But is it really?**

Opteon™XL greatly reduces both direct and indirect emissions.

The low GWP of R-744 has masked its inherent low energy efficiency, even using enhanced system designs such as parallel compression and ejector technology.

Although R-744 achieves the primary objective of lowering the total emissions below R-404A levels, apart from matching cooling performance, R-744 does not really meet retailers' requirements such as ease of use, energy efficiency and reliability.



From Sevilla to Leicester, Opteon™XL refrigerants consistently show the lowest total emissions for stores with 300m² to 2000m² retail area.

The very low GWP combined with the improved energy efficiency delivered by Opteon™ XL refrigerants result in total emissions 12-13% lower than the optimal R-744 technology.



Whilst delivering the lowest total emissions,
Opteon™ XL refrigerants also have 11-13%
lower 10-year Life Cycle Cost than the equivalent
optimal R-744 technology.

Clearly there is room for improvement over CO₂ technologies, and Opteon™XL provides the solution.



Matches cooling performance



Exceeds energy performance



Improves total cost of ownership



Matches uptime (minimize risk to trade)



Ease of installation and maintenance

Opteon™XL refrigerants, why would you choose anything else?

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