

# CO<sub>2</sub>: The Inconvenient Truth

CO<sub>2</sub> (R-744) refrigeration systems have been the “go-to” low GWP option in the EU, however at a greatly increased cost. There are now lower-cost and long-term sustainable technologies available, like the very low GWP Opteon™ XL solutions.



Compared to R-404A, using CO<sub>2</sub> (R-744) technology to reduce total emissions appeared to be an effective, but a costly choice. There are now lower-cost and long-term sustainable technologies available like Opteon™ XL, so why choose CO<sub>2</sub> ?

## Opteon™ XL greatly reduces the Life Cycle Cost of your refrigeration system.

The inherent low energy efficiency of CO<sub>2</sub> (R-744), even when used in enhanced system designs such as parallel compression and ejector technology, means that users will face an increase in their energy consumption and thus electricity bills.

In addition, the increased system complexity will inevitably result in initial CAPEX and maintenance costs of CO<sub>2</sub> (R-744) to be significantly higher than those of a R-404A or very low GWP alternatives like Opteon™ XL, not to mention the potential hidden costs from lack of system reliability.



Lowest 10-year Life Cycle Cost using Opteon™ XL refrigerants

## From Sevilla to Leicester, Opteon™ XL refrigerants consistently show the lowest Life Cycle Cost for stores with 300m<sup>2</sup> to 2000m<sup>2</sup> retail area.

Whilst delivering the lowest total emissions, Opteon™ XL refrigerants also offer the lowest CAPEX (up to 11%), lowest maintenance costs



(up to 15%) and up to 15% lower energy consumption compared to the optimum CO<sub>2</sub> (R-744) technology.

Clearly there is room for improvement over CO<sub>2</sub> 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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