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Carrier supports a Sustainable World

Carrier Corp., the world's leader in high technology heating, air-conditioning and refrigeration solutions, improves the world around us through engineered innovation and environmental stewardship.

Carrier Commercial Refrigeration is a leading supplier of high efficiency turnkey refrigeration systems and services in the food retail industry. Contact one of our local offices to discover our complete range of products and services offering on: www.carrier-refrigeration.com

- CO₂ Cooling Systems
- HFC Cooling Systems
- Applications, Cooling Systems
- Condensers, Cooling Systems
- Control Cooling Systems
- Counters, Multidecks, Semi-verticals, Roll-in cabinets and Ultrafreshness
- Islands, Wall-sited cases and Vertical freezers
- Plug-in cases
- Services



HybridCOOL₂

The Sustainable Refrigeration Solution
for every ambient condition

Sustainability
Energy efficiency
Innovative technology



Natural refrigerant – efficiency for all

Carrier Commercial Refrigeration's mission is to deliver to our food retail customers best-in-class sustainable refrigeration systems combining an energy-efficient design with optimal refrigerant use and professional after-sales service.

Carrier has the right refrigerant solution for every application, but believes that every application will not have the same refrigerant solution.

Carrier is a pioneer in CO₂ commercial refrigeration technology and has invested extensively in the development of CO₂ for more than 10 years. HybridCO₂OL™ is a

result of this major research & development effort.

HybridCO₂OL™ is dedicated to stores located in mid and high ambient temperatures. HybridCO₂OL™ is a combined solution using R134a for medium temperature and CO₂ for low temperature.

Carrier proposes two offers in HybridCO₂OL™: CompactCO₂OL™ and FlexiCO₂OL™.

CompactCO₂OL™ is designed to be compact, with a common frame for medium temperature (MT) and low temperature (LT) and an integrated electrical box.

FlexiCO₂OL™ is designed with two frames (MT + LT cascade) and with an integrated electrical box.

HybridCO₂OL™ is an optimum refrigerant hybrid solution, allowing fast installation and commissioning leading to faster store opening, with a very competitive footprint.

HFC R134a has a lower GWP (Global Warming Potential) compared to other refrigerants and is very well known in commercial and food retail applications. HybridCO₂OL™'s refrigerant combination delivers superior energy efficiency and a low TEWI (Total Equivalent Warming Impact).

HybridCO₂OL™ a turnkey solution

Store applications
HybridCO₂OL™ technology has been designed for stores operating in mid and high ambient temperatures. Carrier Commercial Refrigeration has combined decades of experience in food retail system design together with years of research and development in order to design the optimal HybridCO₂OL™ solution.

Sustainable and serviceable
With HybridCO₂OL™ refrigeration systems, store owners select a reliable and environmentally advanced solution. CO₂ has the advantages of being a natural and cost-effective refrigerant with neutral impact on

Global Warming Potential. HFC R134a offers superior efficiency with half of the Global Warming Potential of R404a. HybridCO₂OL™ users can save energy costs over the full life time of the system.

Project life cycle
Carrier's objective is to provide seamless refrigeration system integrations with streamlined service and maintenance programs that deliver reliable operations and sustainable solutions over the complete life of the store. Service and maintenance programs are tailored to customers' individual requirements to meet the highest quality standards and to ensure minimum downtime.

Customer benefits

- Limited direct emissions due to the combination of neutral CO₂ refrigerant and HFC R134a
- Reduction of indirect emissions through increased energy efficiency
- Delivered as a turnkey solution; combining state-of-the-art CO₂ refrigeration with extensive experience of HFC R134a
- Available for all stores in mid and high ambient temperatures
- Reduced operating costs due to higher efficiency

Sustainability inside and out: thinking ahead

Carrier is a company deeply rooted in sustainability. Beginning with our founder, Willis Carrier, our commitment to environmental responsibility has always been a large part of who we are. Yet, we understand that protecting our planet is not about revelling in the past, but focusing on the future.

As we work to develop new products, Carrier will never stray from our core value of environmental stewardship. With every innovation, we will strive to accomplish more with less in order to preserve natural resources for future generations. Our 30,000 global employees share in this dedication.

The Carrier vision will continue to look well beyond how we can improve the lives of our customers today, always considering the impact of our products and processes on tomorrow. And as our timeline progresses forward, we will fill it with a growing number of achievements that will reflect our natural leadership.

In short, at Carrier, we're simply going to keep doing what we've been doing — putting the environment first, innovation forward, and thinking ahead.



Willis Carrier



Average figure, as calculated for one typical supermarket

Environmental impact per typical supermarket* and year	
CO ₂ equivalent (tons/year)	Reduction of CO ₂ emissions
211 (R404A)	-31%
145 (R134a/CO ₂)	66 tons/year or**
	37 x

* Sales area = 1400 sqm
** Average car using 0.12 kg CO₂/km; run time 15,000 km per year