Opteon™ XP40, XP10, XL40, XL20, and XL10 can be used in a variety of food processing and blast freezing applications to increase performance and sustainability.

The full Opteon™ refrigerant portfolio enables cold storage warehouse operations to select the optimal refrigerant for applications ranging from -20°F blast freezer cells and 0°F freezer rooms to 30°F+ cooler and refrigerated rooms.

Opteon™ XP44 and XP10 are trusted by leading industry OEMs for global transport of frozen and refrigerated foods.

The full Opteon™ refrigerant portfolio enables cold storage warehouse operations to select the optimal refrigerant for applications ranging from -20°F blast freezer cells and 0°F freezer rooms to 30°F+ cooler and refrigerated rooms.

Refrigerated trucks, trailers, and containers use Opteon™ XP44 and XP10.

Opteon™ YF, the global standard for mobile air conditioning, allows for a comfortable commute.

The Opteon™ XP and XL portfolio of products are ideal for retrofitting or installing new low and medium temperature refrigeration systems in supermarkets, convenience stores, and restaurants.

Homeowners have been relying on Freon™ refrigerant for decades to keep their homes comfortable. Opteon™ XL41 provides the optimal solution for the future of residential air conditioning.
Manufacturing
Refrigeration plays a crucial role in the preparation and processing of food; it is required for a variety of applications, including produce ripening, dairies, wineries, breweries, and bakeries.

Refrigerated Transport
Raw and prepared foods are often imported or exported using temperature-controlled containers. Frozen and refrigerated goods are picked up at warehouses and ports and transported to their next destination in refrigerated trailers and trucks that maintain the appropriate temperature to keep food fresh and safe.

Opteon™ Success Stories:
- Opteon™ XP44 (R-452A) selected by Carrier Transicold\(^1\) and Thermo King\(^2\)
- Opteon™ XP10 (R-513A) selected by Carrier Transicold\(^3\) and Maersk\(^4\)

Cold Storage Warehousing and Distribution Centers
Refrigerated warehouses are used for short-term holding of frozen or refrigerated products between their source and destination.

Opteon™ Success Stories:
- Opteon™ XP40 (R-449A) has been successfully used as a retrofit replacement for R-22 in numerous cold storage facilities
- Opteon™ XL40 (R-454A) selected by Dawsongroup for fleet of portable cold rooms\(^5\)

Retailers and Restaurants
Supermarkets, convenience stores, and restaurants receive food products from a refrigerated truck and store them in display cases or walk-in refrigerators/freezers. They also utilize refrigerants in air conditioning systems to provide comfort cooling to customers.

Opteon™ Success Stories:
- Opteon™ XP40 (R-449A) has enabled reliable conversion away from R-22 and higher GWP HFCs like R-404A/507 and R-407A, improving system energy efficiency up to 12%\(^6\)
- Opteon™ XP10 provides low GWP solutions for new refrigeration equipment design, including cascade systems, micro-booster technology, and self-contained refrigeration cases
- Opteon™ XL portfolio delivers a significantly lower climate-change impact than other alternative technologies, including CO\(_2\) and hydrocarbons\(^6\)

Personal Transport
Transporting goods via personal vehicle or public transit, consumers enjoy the luxury of mobile air conditioning.

Opteon™ Success Stories:
- Nearly 62 million cars on the road in the U.S. alone use R-1234yf refrigerant (sold by Chemours as Opteon™ YF)

Home
Consumers feel comfortable in their air conditioned homes, while their groceries stay fresh in their refrigerators and freezers—all thanks to refrigerants!

Opteon™ Success Stories:
- Carrier selects R-454B, sold by Chemours as Opteon™ XL41, to replace R-410A in their North American ducted residential and light commercial packaged solutions\(^7\)

To learn more, visit Opteon.com

\(^2\) https://www.thermoking.com/pl/new-r-452a-refrigerant
\(^6\) “The Path to Reducing Climate Change Emissions from Commercial Refrigeration Application,” Chemours white paper, featuring results of a third-party study conducted by WAVE Refrigeration.

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