



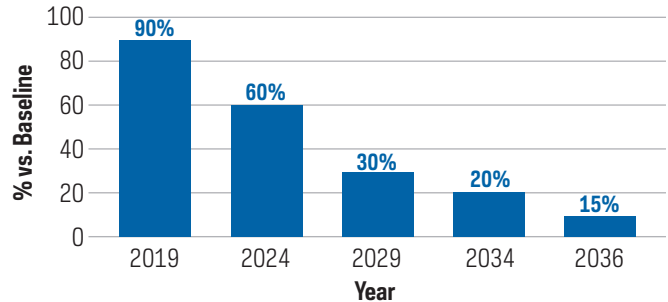
Opteon™ Refrigerants

Summary of Environment and Climate Change Canada Regulations Pertaining to Refrigerants

On October 18, 2017, Environment and Climate Change Canada published amendments to the ODSHAR regulations. These amendments will come into force on April 16, 2018. These regulations will adopt a phasedown, but NOT A PHASEOUT, of hydrofluorocarbons (HFCs) in alignment with the United Nations Kigali Amendment to the Montreal Protocol. The regulations also contain product-specific controls by end use that apply to new equipment only.

This regulation does not require the phaseout of HFC manufacturing.

Canada HFC Phasedown



Baseline is determined from the average imports of HFCs plus 15% of HCFCs in 2011, 2012, and 2013.

Product-Specific Controls for New Equipment

End Use	Application	Date	GWP Limit of Refrigerant*
Stand-alone, medium-temperature refrigeration system: Self-contained refrigeration system with components that are integrated within its structure and designed to maintain an internal temperature of $\geq 0^\circ\text{C}$	(a) Commercial or industrial	January 1, 2020	1400
	(b) Residential	January 1, 2025	150
Stand-alone, low-temperature refrigeration system: Self-contained refrigeration system with components that are integrated within its structure and designed to maintain an internal temperature $< 0^\circ\text{C}$, but $> -50^\circ\text{C}$	(a) Commercial or industrial	January 1, 2020	1500
	(b) Residential	January 1, 2025	150
Centralized refrigeration system: Refrigeration system with a cooling evaporator in the refrigerated space connected to a compressor rack located in a machinery room and a condenser located outdoors and designed to maintain an internal temperature at $\geq 50^\circ\text{C}$	Commercial or industrial	January 1, 2020	2200
Condensing units: Refrigeration system with a cooling evaporator in the refrigerated space connected to a compressor and condenser unit that are located in a different location and designed to maintain an internal temperature at $\geq -50^\circ\text{C}$	Commercial or industrial	January 1, 2020	2200
Chiller: Refrigeration or air-conditioning system that has a compressor, evaporator, and secondary coolant other than an adsorption chiller	Commercial or industrial	January 1, 2025	750
Mobile refrigeration system: Refrigeration system that is normally attached to or installed in or operates in or with means of transportation	Commercial or industrial	January 1, 2025	2200

*IPCC Fourth Assessment Report, AR4

Existing equipment, service, and retrofit will not be impacted by the product-specific controls.

Are You Prepared?

- Evaluate your plan for new equipment against the timelines outlined in the above regulations.
- Evaluate your plan for remodel and retrofit, and transition to Opteon™ low global warming potential refrigerants to improve energy efficiency.
- Visit Opteon.com for more information on HFC replacement options.

For more information on the Opteon™ family of refrigerants, or other refrigerants products, visit opteon.com or call (800) 235-7882.

The information set forth herein is furnished free of charge and based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill, at their own risk. Because conditions of use are outside our control, Chemours makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe, any patents or patent applications.

© 2018 The Chemours Company FC, LLC. Opteon™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company.

C-11557 (1/18)