



The Future of Cooling

your quick guide to refrigerants



A photograph of a snowy mountain range under a clear blue sky, with a frozen lake in the foreground.

CO₂

Commercial & Industrial Cases & Systems

A photograph of a red rock landscape with a prominent mesa under a hazy sky.

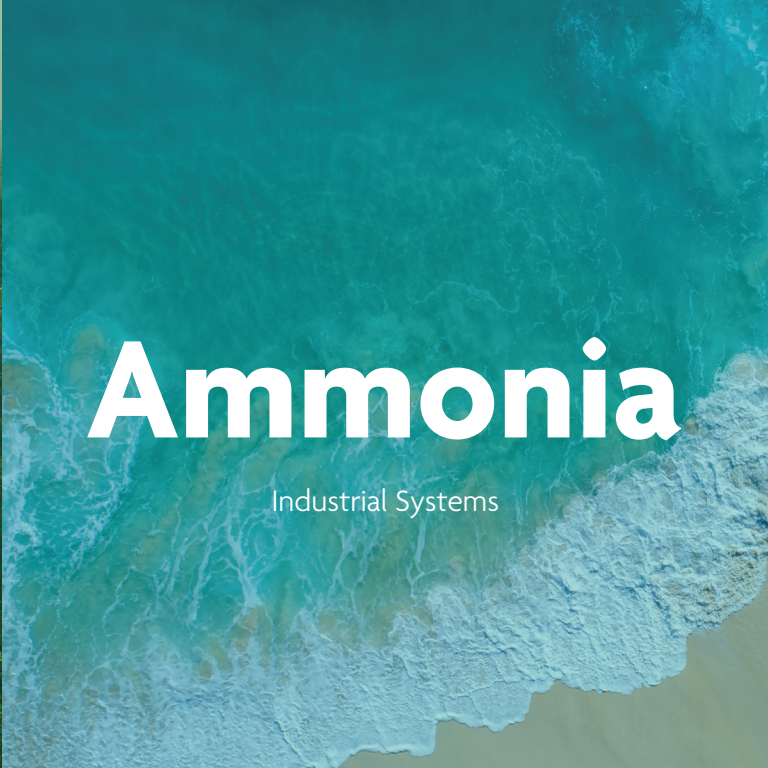
A2L

Commercial & Industrial Cases & Systems

A photograph of a dense green forest with misty hills in the background.

Propane

Commercial Cases & Small Chillers

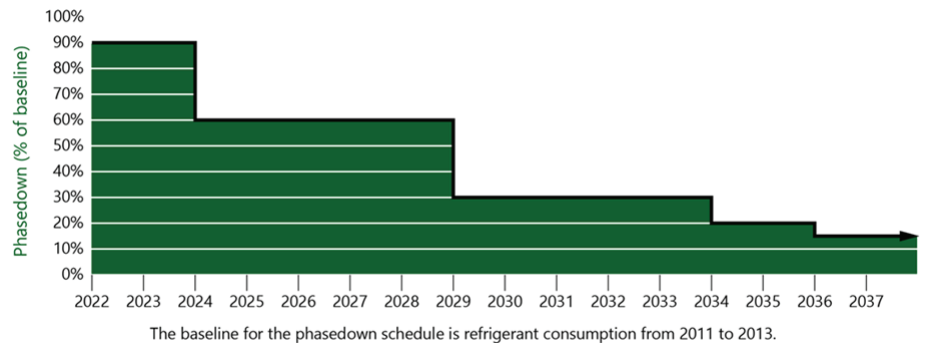
A photograph of blue water with white foam from a wave.

Ammonia

Industrial Systems



AIM Act HFC Phasedown Schedule



The AIM Act

The American Innovation & Manufacturing (AIM) Act of 2020 is a U.S. law that directs the EPA to phase down the production and use of HFC refrigerants—chemicals with high global warming potential (GWP).

Key 2025 Restrictions

- **HFC Phasedown:** A 30% reduction in HFC production and consumption by 2030, and an 85% reduction by 2036.
- **New Installations:** Must use refrigerants that comply with new GWP limits.
- **Retrofitted Systems:** If 75%+ of evaporators **and** 100% of compressor racks, condensers, and connected loads are replaced, the system is treated as new and must meet current standards.
- **Legacy Equipment:** Can continue operating, but parts and refrigerant availability may vary by manufacturer.

Contact Us



Learn more about which refrigerant is right for your retail or industrial application. Zero Zone is committed to providing sustainable solutions that are in compliance with upcoming regulations!

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Choosing the Right Refrigerant



advantages

- Widely used across all refrigeration applications
- High availability
- Excellent heat transfer properties

considerations

- Higher operating pressure than traditional HFC refrigerants
- Needs specialized components



advantages

- Low charge, and less system stress
- Highly efficient; smaller charges and components
- Future-proof regulatory compliance

considerations

- Highly flammable; requires strict handling
- Charge limits; challenging to use in large systems



advantages

- Similar design components to HFC refrigerants
- Available for use in large systems for low- and medium-temperature applications

considerations

- Mildly flammable; requires leak detection & ventilation
- Use is currently restricted to some local codes



advantages

- Absorbs large amounts of heat; highly efficient
- Long-standing reliability
- Long history of use in industrial applications

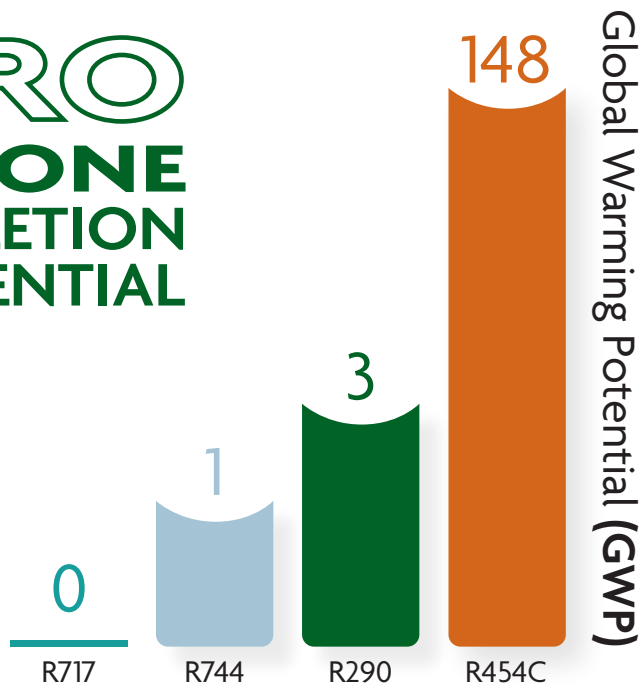
considerations

- Toxic and requires careful handling and safety measures.
- Corrosive to certain metals, requiring compatible materials in system design



we've always been green™

ZERO OZONE DEPLETION POTENTIAL



Back to the Beginning of Refrigerants

We return to the beginning—the genesis—of refrigeration to bring you CO₂ (R-744), NH₃ (R-717), & Propane (R-290) solutions to suit your needs.

Genesys™ is a line of natural refrigeration solutions from Zero Zone, designed to offer an environmentally friendly alternative to traditional refrigerants. While not our only refrigerant option, Genesys™ provides a sustainable choice using natural refrigerants like CO₂, ammonia, and propane, aligning with evolving environmental regulations and energy efficiency goals.



Genesys
natural by



choosing the right refrigerant for **you** and **the planet**

Connect with Us!



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