## What You Need to Know About Next **Generation Refrigerants in HVAC Applications** With the global increase in the use of synthetic refrigerants, regulations have continued to evolve, and we are prepared to support you through the transition. **Refrigerants Regulatory Evolution** The Montreal Protocol is an international treaty originally designed to phase out ozone depleting substances, which is now managing the global phase down of HFCs. **Next Generation** Past Transitional HFOs & HFO Blends CFCs HCFCs & HFCs R-1234yf, R-1234ze, R-11, R-12, R-113 & more R-22, R-123, R-134a, R-410A, R-407C, R-404A, R-452B, R-1233zd, Low or Reduced GWP & R-245fa & more R-513A, R-514A & more No ODP De Minimis ODP **Refrigerant Phase Down** New R-123 refrigerant production ends in developed R-123 use in new nations. Recycled. recovered chillers ends in the ODP and stockpiled supplies developed nations REDUCTION available without restriction 1987 Montreal Protocol decision and EPA rules Pending legal challenge 2020 2021 2024 2025 2030 GWP REDUCTION 2016 Montreal Protocol Kigali Proposed California amendment HFC phase out in Phase out of Canada HFC HVAC if GWP>750 R-134a, R-407C phase out in chillers and R-410A in new if GWP>750 chillers in the U.S.

R-123, R-407C, R-410A and R-134a are all responsible HVAC refrigerant choices and meet current regulations

Multiple next generation, low GWP refrigerants are available on the market

In light of the recent court ruling disallowing the U.S. EPA from using the Significant New Alternatives Policy (SNAP) program to phase down HFCs, the EPA is seeking alternative means to achieve the reductions required under the Kigali Amendment.

## **EcoWise**

The Trane Technologies EcoWise™ portfolio of products is designed to help lower environmental impact with next generation, low GWP refrigerant and high efficiency operation

Trane products within the EcoWise portfolio, offer the broadest range of chillers with next generation, low GWP refrigerant options available to order today.





For the CenTraVac<sup>®</sup> chiller portfolio, Trane offers refrigerant availability guarantee for R-123, R-514A and R-1233zd and a price guarantee for R-123.

Water-cooled chillers with R-123, R-134a and next generation, low GWP R-514A, R-1233zd and R-513A



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit *trane.com* or *tranetechnologies.com*.

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