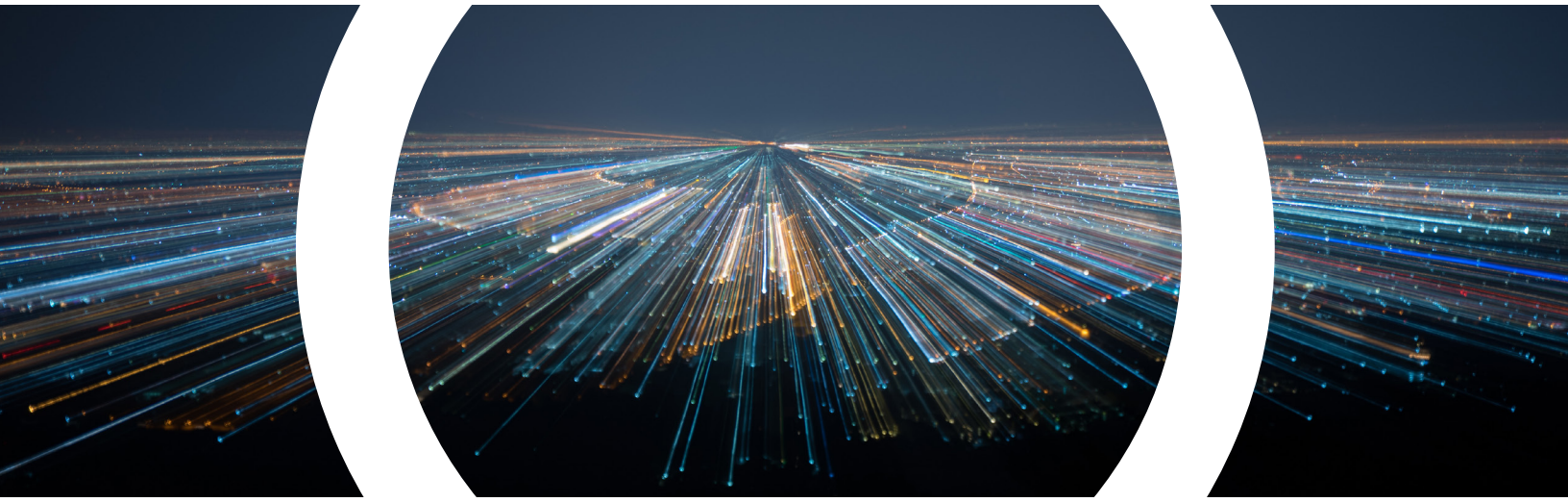
Get Ready for the Future

Overview of Upcoming Regulatory Changes



2023 DOE Regulatory Requirements

On January 1, 2023, the U.S. Department of Energy's new minimum efficiency standards will go into effect. The changes include:

- New minimum cooling efficiencies for newly manufactured residential and commercial HVAC equipment
- Natural gas heating efficiency (> 225,000 btu/h) increases from 80% to 81% steady state efficiency

These changes may present new complexities, but Trane® is committed to leading our industry in compliance and energy intensity reduction and is prepared to support our partners every step of the way. Throughout 2022, we will be updating our products to meet the new 2023 requirements.

Why the Change?

Every six years, the Department of Energy reviews energy use of certain home appliances and mechanical systems in an ongoing effort to reduce overall energy consumption in the United States. If it is determined that an increase in energy efficiency requirements is justified, higher requirements are put into effect.

The changes are expected to save a significant amount of energy and yield environmental benefits. The DOE estimates the new standards will result in a cumulative reduction in CO2 emissions through 2030 amounting to 77 million metric tons (Mt), which is equivalent to the emissions resulting from the annual electricity use of more than 10.6 million homes.*

IEER Ratings

In 2018, the DOE changed its performance metric for commercial air-conditioning and heat pump equipment from EER to IEER (Integrated Energy Efficiency Ratio). IEER is a cooling part load efficiency measurement that takes into account different operating conditions and is the best representation of how a unit will perform over a cooling season.

New Commercial Minimum Efficiency Standards

The new 2023 system cooling efficiency minimums are increasing on commercial units above 65K BTU by approximately 15%. The following chart outlines standards for commercial packaged and split systems (air conditioners and heat pumps) and commercial gas furnaces. All products manufactured prior to January 1, 2023, may be installed on or after January 1, 2023.

Equipment Type		Heating Type	Current Standard Efficiency	2023 Standard Efficiency
Small Commercial Split & Packaged (Air Cooled) – ≥65,000 Btu/h and <135,000 Btu/h Cooling Capacity	AC	Electric Resistance Heating or No Heating	12.9 IEER	14.8 IEER
		All Other Types of Heating	12.7 IEER	14.6 IEER
	HP	Electric Resistance Heating or No Heating	12.2 IEER	14.1 IEER
		All Other Types of Heating	12.0 IEER	13.9 IEER
Large Commercial Split & Packaged (Air Cooled) – ≥135,000 Btu/h and <240,000 Btu/h Cooling Capacity	AC	Electric Resistance Heating or No Heating	12.4 IEER	14.2 IEER
		All Other Types of Heating	12.2 IEER	14.0 IEER
	HP	Electric Resistance Heating or No Heating	11.6 IEER	13.5 IEER
		All Other Types of Heating	11.4 IEER	13.3 IEER
Very Large Commercial Packaged (Air Cooled) –≥240,000 Btu/h and <760,000 Btu/h Cooling Capacity	AC	Electric Resistance Heating or No Heating	11.6 IEER	13.2 IEER
		All Other Types of Heating	11.4 IEER	13.0 IEER
	HP	Electric Resistance Heating or No Heating	10.6 IEER	12.5 IEER
		All Other Types of Heating	10.4 IEER	12.3 IEER

Commercial Warm Air Furnaces: New Thermal Efficiency Standards

Equipment Type	Input Capacity	Current Standard	2023 Standard
Gas-Fired Furnaces	≥ 225,000 Btu/h	80%	81%

*Source: CUAC-CUHP CWAF Direct Final Rule

To learn more, contact your Trane Account Manager or local Trane office.

TRANE

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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