

New FER for Furnaces

Federal Regulations for 2019

WHAT IS FER?

FER is short for Fan Energy Rating

FER is a federal regulation that sets a minimum airflow efficiency standard for residential furnace fans. The US Department of Energy (DOE) predicts the new standard for furnace fans will:

- Save approximately 3.99 quads of energy
- Reduce carbon pollution by up to 34 million metric tons (that's the equivalent electricity use of 4.7 million homes annually)
- Save Americans more than \$9 billion in home electric bills through 2030

WHAT'S THE IMPACT?



Starting July 3, 2019, all HVAC manufacturers must comply with the DOE's FER standard. This regulation targets fan efficiency, and has a significant impact on how our furnaces are designed and what technologies we use to build them.

In addition to upgrading our motor technology from a PSC to an ECM, Trane engineers also developed a new version of our Patented Vortica blower, along with a larger blower housing. Our new Vortica II blower is FER-compliant and will be included with all of our new S-Series furnaces.

NEW S-SERIES FURNACE

OUR NEW S-SERIES FURNACE MEETS THE NEW FAN EFFICIENCY STANDARD AND INCLUDES NEW FEATURES DEALERS ASKED FOR.

- FER-compliant and energy efficient Vortica II Blower System
- 34" Cabinet height: great for space-constrained installs and replacements
- < 1% cabinet air leakage rating for greater efficiency
- Multiple venting options in every poise – simplifying job planning
- And more...



HIGHER PRICE TO BUY

An FER-compliant furnace costs more to build, so the S-Series comes with a price increase.

LESS POWER TO OPERATE

Our FER-compliant furnace takes 46% less power to run than a standard PSC furnace and that translates into lower utility costs.

46%



SAVES ENERGY AND MONEY

5 YEARS

The energy savings will offset the cost increase in about 5 years.* With an average lifespan of 15 years, the homeowner saves energy and money!



PODCAST: <https://www.spreaker.com/e/fEstKJFZsGY>
TRANE LEARNING RESOURCES



*Per DOE's evaluation of economic impacts, as measured by the average life-cycle cost (LCC) savings and the median payback period (PBP).
Table 1.2 https://www.energy.gov/sites/prod/files/2014/06/f17/furnace_fans_final_rule.pdf