



Understanding UEF

On June 12, 2017, EF ratings were replaced with the new industry standard for measuring energy efficiency in water heaters called, Uniform Energy Factor (UEF). This new industry standard, **UEF**, is intended to better represent how people use hot water and improve the water heater selection process for consumers.

Key areas impacted

All manufacturers were required to report and post UEF numbers by June 12, 2017.

The purpose of this document is to assist industry partners and professionals during this transition period.

- UEF ratings are determined by assigning water heaters into one of four different categories (of hot water usage) and then evaluating their performance based on that usage.
- Each category has a specific hot water draw pattern.
- DOE updated minimum efficiency for all residential water heaters.
- Energy Guide labels will now include updated performance information, to help consumers and contractors choose the water heater that best accommodates their needs.

Rinnai UEFs

UEF currently affects all residential water heaters. The table (shown above) reflects the transition from **EF** to **UEF** as it relates to Rinnai water heaters.

Model	EF (Current)	UEF (New)
V53e	0.82	0.81
V65	0.82	0.81
V75	0.82	0.81
V94	0.82	0.81
V94X	0.82	0.81
RL75	0.82	0.81
RL94	0.82	0.81
RLX94	0.82	0.81
RUCS65	0.93	0.90
RUCS75	0.93	0.90
RUC80	0.96	0.92
RUC90	0.96	0.92
RUC98	0.95	0.92
RUR98	0.95	0.92

Although the minimum efficiency has changed 1 point from **0.82 EF** to **0.81 UEF**, DOE sees the efficiency as the exact same. For this reason, it is important not to interchange UEF and EF numbers.

NOTE: The water heaters themselves haven't changed. They will continue to be as efficient as they have always been and will continue to provide the same endless supply of hot water that Rinnai Tankless Water Heaters are known for. The only thing that is changing is the test procedure and metric, and therefore the way we talk about efficiency.