

Transitioning to New Efficiency Metrics

Frank A. Stanonik
Chief Technical Advisor



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Transitioning to New Efficiency Metrics

Pieces Are In Place

- Uniform Efficiency Descriptor Test Procedure
- Conversion Factors
- Converted Minimum UEF Standards
- Revised EnergyGuide Label Rules

Implementation Now in Process

COMPARISON OF UEF RATING TO EF RATING

<u>Fuel and Type</u>	<u>Usage Bin in UED Test</u>		
	<u>Low</u>	<u>Medium</u>	<u>High</u>
Electric, Storage	UEF Lower	UEF Lower	UEF Higher
Gas, Storage		UEF Lower	UEF Higher
Oil Storage		UEF Lower	UEF Higher
Electric, Instantaneous	UEF Lower	UEF Lower	
Gas, Instantaneous		UEF Lower	UEF Lower
Electric, Heat Pump		UEF Higher	UEF Higher
Electric, Table Top	UEF Lower	UEF Lower	
Electric, Grid Enabled		UEF Higher	UEF Higher

COMPARISON OF EF AND UEF MINIMUM VALUES

Gas Storage					
<u>Volume (Gal)</u>	<u>Current EF</u>	<u>Minimum UEF</u>			
		<u>Very Small UED</u>	<u>Low UED</u>	<u>Medium UED</u>	<u>High UED</u>
≥20 and ≤55					
30	0.63		0.54	0.60	0.65
40	0.62		0.53	0.58	0.64
50	0.60		0.51	0.57	0.63
>55 and ≤100					
65	0.75			0.77	0.79
75	0.74			0.76	0.79
100	0.72			0.75	0.78

Comparison of EF and UEF Minimum Values

Oil Storage					
<u>Volume (Gal)</u>	<u>Current EF</u>	<u>Minimum UEF</u>			
		<u>Very Small UED</u>	<u>Low UED</u>	<u>Medium UED</u>	<u>High UED</u>
30	0.62			0.56	0.64
50	0.59			0.53	0.61

Grid-Enabled Water Heaters			
<u>Volume (Gal)</u>	<u>Current EF</u>	<u>Minimum UEF</u>	
		<u>Medium UED</u>	<u>High UED</u>
80	0.93	0.91	0.92
100	0.89	0.90	0.91
120	0.86	0.88	0.90

Comparison of EF and UEF Minimum Values

Electric Storage					
<u>Volume (Gal)</u>	<u>Current EF</u>	<u>Minimum UEF</u>			
		<u>Very Small UED</u>	<u>Low UED</u>	<u>Medium UED</u>	<u>High UED</u>
≥20 and ≤55					
30	0.95		0.92	0.93	
40	0.95		0.91	0.92	
50	0.95		0.91	0.92	
>55 and ≤120					
65	1.98			2.05	2.18
80	1.97			2.04	2.16
100	1.94			2.02	2.14
120	1.92			2.00	2.12

Tabletop Storage			
<u>Volume (Gal)</u>	<u>Current EF</u>	<u>Minimum UEF</u>	
		<u>Low UED</u>	<u>Medium UED</u>
30	0.89	0.84	0.90
40	0.88	0.81	0.87

Comparison of EF and UEF Minimum Values

Gas Instantaneous					
<u>Volume (Gal)</u>	<u>Current EF</u>	SNOPR			
		<u>Very Small UED</u>	<u>Low UED</u>	<u>Medium UED</u>	<u>High UED</u>
1.5	0.82			0.81	0.81

Electric Instantaneous					
<u>Volume (Gal)</u>	<u>Current EF</u>	SNOPR			
		<u>Very Small UED</u>	<u>Low UED</u>	<u>Medium UED</u>	<u>High UED</u>
1.5	0.93	0.91	0.91		

Transitioning to New Efficiency Metrics

Testing to UED test procedure is ongoing

AHRI Certification Program testing units for EF and UEF in 2017

Directory changes in process to have all UED rating information by June 1, 2017

Revised EnergyGuide labels required on June 12, 2017

Industry will transition to displaying UED rating information on that date

Industry working with DOE to develop information for consumers and contractors explaining the change to UED descriptors