ENERGY STAR Solar Water Heaters QPX updates

Name	Description	Required/ Optional	Multiple Select	Data Type	Restrictions	Enumerations
ENERGY STAR Specification Version		R	N	Enumeration Data		• 3.0 3.1
Product Type		R	N	Enumeration Data		• Solar Gas • Solar Electric
Fuel Type	Required if Product Type is Solar Gas.	O	Y	Enumeration Data		• Gas • Propane
Solar Energy Factor (SEF)		R	N	Decimal	No. of Decimal: 1 Min Value: 1.2	
Minimum Warranty - Parts (years)		R	N	Integer	Min Value: 1	
Minimum Warranty - System (years)		R	N	Integer	Min Value: 6	
Minimum Warranty - Collector (years)		R	N	Integer	Min Value: 10	
Minimum Warranty - Controls (years)		R	N	Integer	Min Value: 2	
Type of Backup		R	N	Enumeration Data		• Tank • Tankless
Auxiliary Volume (gal)		R	N	Integer		
Auxiliary Input (kW)	Required if Product Type is Solar Electric.	O	N	Decimal	No. of Decimal: 1	
Recovery Efficiency per UEF test method	Required if using UEF test method and Type of Backup is Tank.	O	N	Decimal	No. of Decimal: 2	
Recovery Efficiency (%)	Required if using EF test method and Type of Backup is Tank.	O	N	Decimal	No. of Decimal: 2 Max Value: 1	
Tank Diameter (in)	Required if Type of Backup is Tank.	O	N	Integer		
Tank Height (in)	Required if Type of Backup is Tank.	O	N	Integer		
Therms Per Year at 125°F outlet temp	Required if using UEF test method and Product Type is Solar Gas.	O	N	Integer		
Therms Per Year	Required if using EF test method and Product Type is Solar Gas. This rating is based on a 135°F outlet temperature.	O	N	Integer		

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Vent Type	Required if Fuel Type is Gas or Propane.	O	N	Enumeration Data		• Power Vent • Power Direct Vent • Direct Vent • Atmospheric Vent
Height to Vent (in)	Required if Fuel Type is Gas or Propane.	O	N	Decimal	No. of Decimal: 1	
Vent Size 1 (in)	Required if Fuel Type is Gas or Propane.	O	N	Integer		
Vent Size 2 (in)	Required if Fuel Type is Gas or Propane and model utilizes two vents.	O	N	Integer		
Max Input (MBTUH)	Required if Fuel Type is Gas or Propane. Provide Max Input in thousand BTU per hour.	O	N	Decimal	No. of Decimal: 2	
Minimum Gallons Per Minute over 67°F rise (GPM)	Required if using UEF test method and Type of Backup is Tankless.	O	N	Decimal	No. of Decimal: 1	
Minimum Gallons Per Minute (GPM)	Required if using EF test method and Type of Backup is Tankless. This rating is based on a 77°F temperature rise.	O	N	Decimal	No. of Decimal: 1	
Maximum Gallons Per Minute over 67°F rise (GPM)	Required if using UEF test method and Type of Backup is Tankless.	O	N	Decimal	No. of Decimal: 1	
Maximum Gallons Per Minute (GPM)	Required if using EF test method and Type of Backup is Tankless. This rating is based on a 77°F temperature rise.	O	N	Decimal	No. of Decimal: 1	
Water Heater Depth (in)	Required if Type of Backup is Tankless.	O	N	Decimal	No. of Decimal: 1	
Water Heater Height (in)	Required if Type of Backup is Tankless.	O	N	Decimal	No. of Decimal: 1	
Water Heater Width (in)	Required if Type of Backup is Tankless.	O	N	Decimal	No. of Decimal: 1	
Water Heater Diameter (in)	Required if Type of Backup is Tankless.	O	N	Decimal	No. of Decimal: 1	
Electric Usage at 125°F outlet temp (kWh/yr)	Required if using UEF test method and Product Type is Solar Electric.	O	N	Decimal	No. of Decimal: 1	
Electric Usage (kWh/year)	Required if using EF test method and Product Type is Solar Electric. This rating is based on a 135°F outlet temperature.	O	N	Decimal	No. of Decimal: 1	
Input Voltage (V)	Required if Product Type is Solar Electric.	O	N	Integer		

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Solar Collector Panel Area (sq ft)		R	N	Decimal	No. of Decimal: 1	
Freeze Tolerance Limit (F)		R	N	Integer		
Solar Collector Type		R	N	Enumeration Data		• Flat Plate • Evacuated Tube • Batch
Solar Tank Volume (gal)		R	N	Integer		
Active or Passive System		R	N	Enumeration Data		• Active • Passive
Solar System Type		R	N	Enumeration Data		• Direct Forced Circulation • Indirect Forced Circulation • Direct Thermosyphon • Indirect Thermosyphon • Direct ICS