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<th>Performance Metric</th>
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<td><strong>Air-to-Water Heat Pump Performance</strong></td>
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| **Energy Efficiency Requirements**  | Heating Coefficient of Performance ($COP_H$) shall be $\geq 1.7$ at full load capacity and the following conditions:  
• Dry bulb air temperature of 5°F  
• Leaving water temperature of 110°F  
$COP_H$ and capacity (in BTUs) will be reported | AHRI Standard 550/590 2018 Standard for Performance Rating of Water-chilling and Heat Pump Water-heating Packages Using the Vapor Compression Cycle |
| **Reporting Requirements**         | $COP_H$ and capacity (in BTUs) at air temperature of 47°F dry bulb, 43°F wet bulb, and a leaving water temperature of 105°F  
$COP_H$ and capacity (in BTUs) at air temperature of 17°F dry bulb, 15°F wet bulb, and a leaving water temperature of 105°F  
**OR**  
$COP_H$ and capacity (in BTUs) at air temperature of 14°F dry bulb, 12°F wet bulb, and a leaving water temperature of 105°F  
Integrated Part-Load Value (IPLV) to be reported if the heat pump is capable of providing space cooling |                                                                                                      |
| Warranty Minimum                   | One year on compressor and all other parts                                | Copy of warranty agreement                                                                          |
| Certification                      | Must meet all applicable U.S. electrical safety requirements               | Copy of case files                                                                                    |
| **Additional Company Requirements** |                                                                          |                                                                                                      |
| Product Commercial Status          | This Award is only granted to products that are available for sale in the U.S.  
Products must meet one of the following criteria: 1) available for sale at multiple supplier locations, or 2) have commercial orders pending and firm plans to sell products to customers within 3 months of the Award application date. |                                                                                                      |

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1 Air-to-Water Heat Pumps must meet the following description to be eligible:  
• Must be an air source heat pump,  
• Has refrigerant to water or water/glycol heat exchange, and  
• Provides space heating (and potentially also provides space cooling and domestic hot water)  

2 ENERGY STAR Partner Resources Third Party Certification Laboratory Resources Webpage