AeroTherm® Series Heat Pump with Bradford White Connect™

The water heater shall be a Bradford White AeroTherm® Series, model number_____ or approved equal. Water Heaters shall be of capacity and ratings indicated on specification sheets and listed by UL standards, UL 1995. This water heater shall be C.E.C. listed. This water heater shall meet or exceed requirements for ENERGY STAR® per the latest ENERGY STAR® criteria revision, as well as most utility rebate programs. Water Heaters are certified at 300 PSI test pressure and 150 PSI working pressure. This water heater uses both heat pump technology and direct heat transfer via immersed elements to heat water. The water heater shall be equipped with one 500W fully integrated heat pump that uses R134A refrigerant. This water heater shall have a ¾" condensate port in order to dispose of condensate that is collected by the heat pump. The integrated heat pump of this water heater is designed for operation in ambient air conditions between 35°F and 120° F. The water heater will operate in standard/electric mode outside of this range. These water heaters are wired inter-locking (Non-Simultaneous, single phase) and, dual rated for 240V/208V with both upper and lower elements rated to 4000W@240V/3000W@208V. All water connections are ¾" NPT and located on the top of the water heater. All water connections shall be true dielectric waterways. Water Heaters shall be equipped with one protective plug type anode rod. Water Heaters shall have factory-installed heat trap inserts on both the cold inlet and hot outlet, that reduce heat loss. All internal surfaces of the tank exposed to water shall be glass-lined with Vitraglas® vitreous enamel with Microban® antimicrobial technology that has been fused to steel by firing at a temperature range of 1,600°F. Electric heating element(s) shall be medium watt density with zinc plated copper sheath screw-in style, unless otherwise specified. The water heater shall be equipped with an LED control panel. The display will be able to communicate the current status, mode and set point, and displays error messages when applicable. This water heater shall be equipped with separate operating modes including Heat Pump (only) mode, Hybrid Standard mode, Hybrid Plus mode, Electric (only) mode, and Vacation mode. Elements shall be controlled by an individually mounted thermostat and high temperature cutoff switch. The outer jacket shall be of baked enamel finish. The water heater shall be provided with full size control compartments for performance of service and maintenance through removable front panels. Electrical junction box shall be provided on top of the water heater. The low restrictive brass drain valve shall be located in the front for ease of servicing. The water heater shall have a __year limited warranty as outlined within the written warranty. Fully illustrated instruction manual to be included. ASME rated temperature and pressure relief valve will be installed on top. Water heater has a thermostat set point range of 100°F to 140°F.