PNV-100-LF

Nucleus Proton Digital Mixing Valve

- 1. Nucleus Proton Digital Mixing Valve
 - A. Mixing Valve shall be Digital and comply with National Low Lead Laws @< .25% Lead
 - B. PNV-100-LF shall:
 - 1. Have ¾" inlet/ 1" outlet connections with integral stop/check valves
 - 2. 2-line, 16-character LED display
 - 3. Integral RTD Sensor
 - 4. Deliver mixed water flow of 39 GPM @ 30 PSI Pressure Drop
 - 5. Maintain temperature with .25 GPM flow from the domestic hot water loop
 - C. PNV-100-LF shall have all the following operational capabilities:
 - 1. 1X per day shuttle sweep designed to prevent scale buildup on internal mechanical components
 - 2. +/- 2°F water temperature control at times of use and no demand
 - 3. 2°F minimum inlet to outlet water temperature differential
 - 4. Automatic shutoff of hot water upon cold water inlet supply failure
 - 5. Automatic shutoff of cold water upon hot water inlet supply failure
 - 6. Maintain last control position in the event of power failure or be equipped with UPS standby power for approximately 2 hour run time
 - 7. Programmable set point range of 65-180°F (18-82°C)
 - D. PNV-100-LF shall be certified to ASSE standard 1017 and CSA B125.3-18 and so certified and identified
 - E. PNV-100-LF shall be cULus listed and identified
 - F. Maximum Operating Pressure shall be no greater than 125 PSI
 - G. Disinfection Option with Proton Box 2.0
 - a. Optional 3T (3 additional temperature probes for hot and cold inlet in addition to return)
 - b. Optional REL (Connectivity for 5 relay states)
 - H. BMS connectivity available with Proton 2.5 box utilizing BACnet MS/TP connection in addition to including Disinfection
 - a. Optional 3T (3 additional temperature probes for hot and cold inlet in addition to return)
 - b. Optional REL (Connectivity for 5 relay states)
 - I. Wi-Fi Connectivity available with Proton 3.0 box in addition to BACnet MS/TP connection, Disinfection, relay, and 3 additional temperature probes for hot and cold inlet in addition to return