

NOTES to ENGINEER SPECIFYING HWAT-Plus

HWAT-Plus is Domestic Hot Water Maintenance System capable of maintaining potable water at a pre-determined temperature without controls. However, this ability is based upon a constant ambient of about 70° F. When the ambient temperature is constant and about 70°F, the only selection necessary by the specifying engineer is the temperature to be maintained. A constant ambient temperature is typical of piping installed in a plenum above a hallway. The HWAT-Plus without MoniTrace Controller suggested specification may be used for this application.

In some instances, a stable ambient temperature at around 70° F will not be available where the piping is installed (pipes installed in a vented attic space, for example). In these instances, HWAT-Plus can be installed with a MoniTrace controller and the piping system water can be adjusted as needed. In this application either the 140°F or 125°F cable should be selected. Please contact INDUSTRIAL HEATER at (901)382-4761 for assistance in selecting a heating cable temperature and an alternate insulation thickness.

HWAT-Plus is designed for 208v power. If at all possible, HWAT-Plus should be powered with this voltage. However, if 208v is not possible, the product can be re-engineered for alternate voltages. Alternate voltages will require an alternate insulation thickness to maintain the same service temperature. Please contact INDUSTRIAL HEATER at (901)382-4761 for assistance in determining an alternate insulation thickness and heating cable temperature.

The National Electric Code now requires GFPD breakers for ALL heating cable circuits. However, HWAT-Plus circuits are usually quite long and standard personnel protection 5 mA trip GFPD breakers are not acceptable. Heating cable circuits are installed with GFPD breakers to prevent fires and MUST be installed with 30 mA trip breakers.