Big Dipper® AST System Plumbing Installation

Locating The AST Unit

To minimize grease build-up in piping, a Big Dipper system should be located as close as possible to the fixture it is serving. The system should be visible and easily accessible for maintenance and inspection. The unit must be in a level position. **Be sure to check the Specification Sheet for your model for the exact clearances needed for installation.** If the system is located directly on the floor, the bottom should be sealed to the floor with an approved silicone type sealant. Make sure the height above the Solids Strainer access cover is enough to remove the strainer assembly.

Eductor Pump

The facility must provide a minimum 3.45 Bar water supply to the Eductor pump on the AST system. Thermaco, Inc. provides a 0.5" (12 mm) Female Connector to connect to this water supply. The eductor pump on the W-750-AST-E & W-1250-AST-E is designed to handle incidental food solids of less than 1.5" (38 mm) in diameter. Non-food products including plastic and metal parts cannot be removed by the Eductor. The W-750-AST & W-1250-AST require at least a 0.75 l/s flow for proper operation.

Inlet/Outlet Piping

The inlet and outlet piping connections require no-hub type connectors. Keep outlet piping as straight as possible. Assure that outlet pipe has at least a slope of 1/4" per foot. Use only "sweep" connections. Don't reduce the pipe sizing on the outlet piping. Don't install "P" trap on outlet connection of system. (Note: The system already has a internal gas trap)

Note: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.

Flow Controls

Big Dipper systems are equipped with an internal flow regulator located inside the inlet end of the system. Verify its location and placement prior to connecting the inlet piping. If your code requires a vertical type flow regulator, an approved control with a flow rating matching the system's flow rate should be used. Note: When a Big Dipper is servicing multiple fixtures, some codes require separate flow controls for each fixture. See following page for suggested high head height flow regulation installation.

Fill Unit With Water Before Applying Power

Big Dipper systems equipped with an electric heating element MUST be filled with water before energizing the power to the system. Failure to do so will result in the destruction of the electric heating element. These elements will NOT be replaced under Thermaco's Warranty.

Venting The Outlet

An outlet vent or approved air admittance valve of at least 1/2 the diameter of the system's outlet connection must be present within two (2) feet of the Big Dipper outlet to prevent possible siphoning problems. Failure to provide a vent for the system voids Thermaco's Warranty.

Do Not Use With Food Grinders, Potato Peelers or Waste Disposal Units

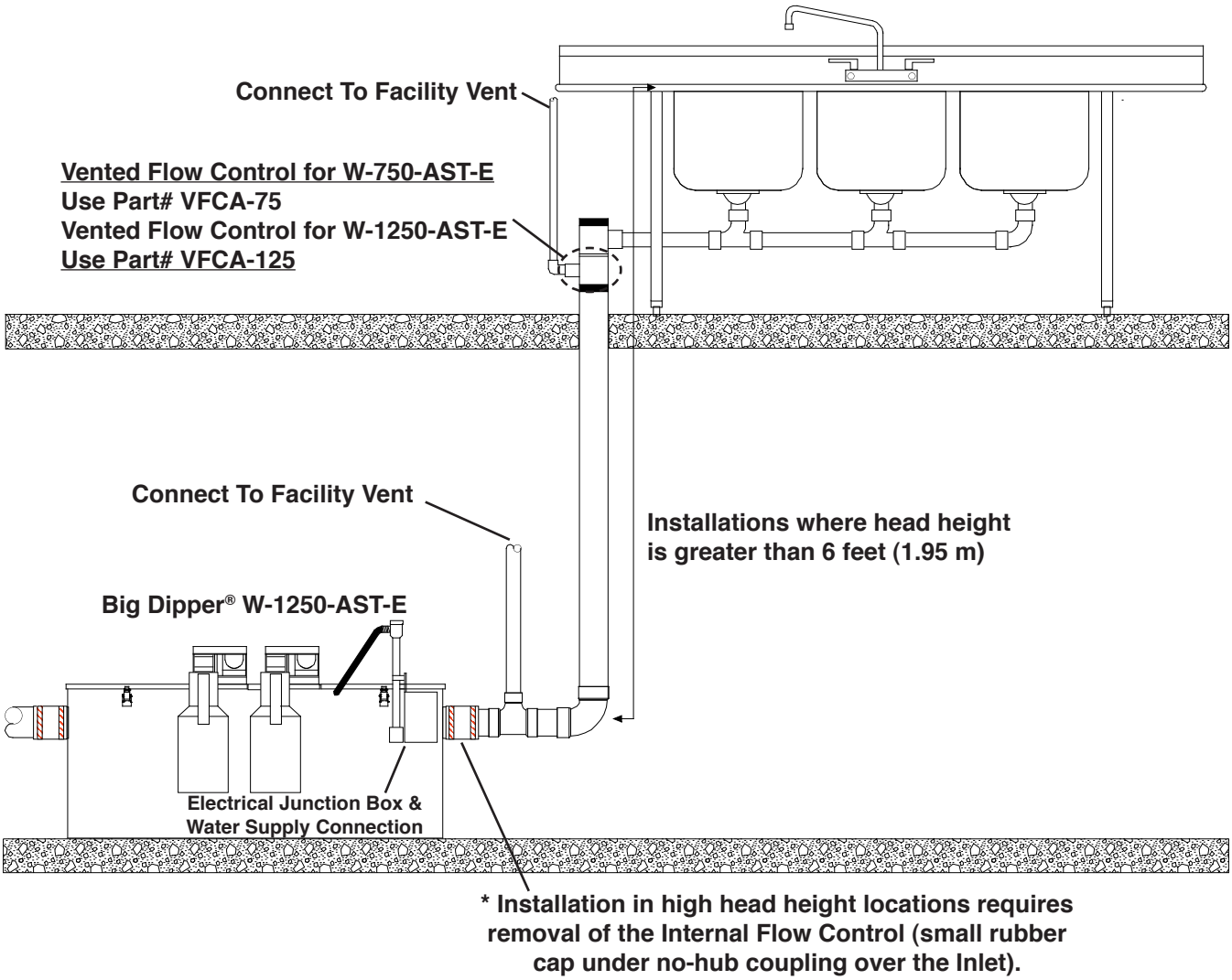
If the system is connected to a Food Disposal or Garbage Grinder, Thermaco's Warranty will be void.

©2007 Thermaco, Inc. All rights reserved • Patented/Patents Pending • Specifications subject to change without notice

Big Dipper® AST System Plumbing Installation

(For Installations With Head Height Greater Than 6 feet (1.95m))

For installations where there is a significant amount of head height (More than 6 ft./1.95 m), Thermaco, Inc. recommends installation of the optional VFCA Vented Flow Control module.



Note: Drawing for reference only. Equipment must be installed in compliance with all applicable laws, regulations and codes, including plumbing codes. Installation should be performed by a qualified plumber.

©2007 Thermaco, Inc. All rights reserved • Patented/Patents Pending • Specifications subject to change without notice