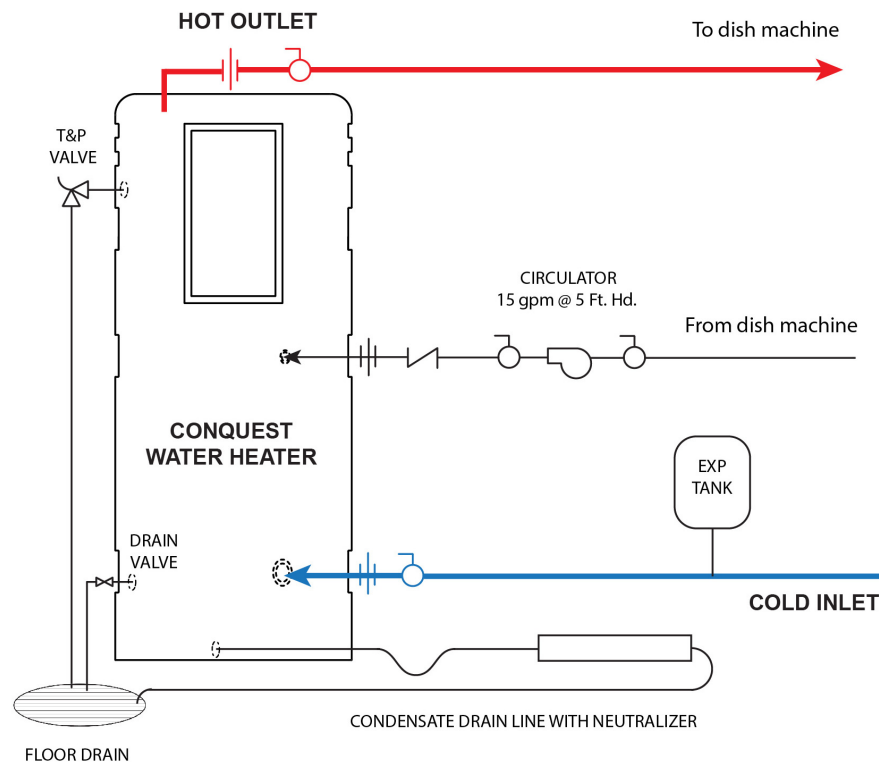


# CONQUEST® 199 MBH through 299 MBH WATER HEATER REQUIREMENTS FOR 180°F DELIVERED WATER TO A DISH MACHINE

Instructions are not for booster heaters applications. For booster heaters, refer to PV 8558. Follow all instructions in the Installation and Maintenance manual PV500-70, except as identified below.



## Application Requirements and Notes:

For Conquest applied as the high temperature water source for a dish washing application, follow all instructions in the “VENTING” and “GENERAL PIPING GUIDELINES” Sections of I&M manual PV500-70, EXCEPT that:

1. These instructions are for operation with normal cold inlet water temperatures of less than or equal 110°F. Contact factory for inlet water temperatures above 110°F.
2. Solid PVC exhaust venting is acceptable for inlet water temperatures less than or equal 100°F. If inlet water temperatures are above 100°F, then solid CPVC or ETL, UL, ULC or CSA listed polypropylene or stainless steel venting is required and the vent limit switch must be adjusted for the higher temperature rating allowed by these vent materials (Contact factory for instructions).
3. Change the following EOS control settings on the Conquest water heater applied as the high temperature water source for a dish washing application: 1. Adjust the operating differential (DIFF) to 2°F; 2. Adjust the operating offset (OFFSET) to 3°F; and 3. If the installed exhaust venting material is solid CPVC or ETL, UL, ULC or CSA listed polypropylene or stainless steel, adjust the vent limit switch (Contact factory for instructions). Adjust these parameters in the Setup menu of the digital control display. These settings are used on most dish washing applications, but may require adjustment for optimal performance.
4. The dish washer application must include a 15 gpm circulation loop between the booster heater and the dish machine. A B&G NBF 22 pump with a minimum 1-inch pipe return to the heater is recommended and is available from PVI.
5. All dishwashing machines meeting National Sanitation Foundation (NSF) requirements must operate between 15 and 25 PSI water flow pressure. Pressure reducing or flow regulating control valves in the hot water supply line to the dishwasher should be adjusted within these limits.