

Pump & Trap Combinations

Why use a Pump-Trap?

A **Pump-Trap Combination** is used when draining condensate from a single piece of heat transfer equipment whose steam flow is being controlled with a modulating type valve. When a modulating valve controls the flow of steam to a heat exchanger, a stall condition can develop. Stall occurs when the modulating valve closes and steam pressure downstream of the valve is unable to push the condensate into the return line and it backs up into the heat exchanger. A Pump-Trap combination will eliminate this problem.

Pump-Traps with either **Internal** or **External** Steam Trap designs are available to suit individual application requirements.

Pump with Internal Steam Trap



PMPT

The Model **PMPT** low-profile pressure motive pump has an internal Steam Trap for applications requiring compact design due to spatial constraints. It is an excellent choice for drainage of various modulating process equipment.

Pump with External Steam Trap



WPT

The **WPT** Series are stand-alone pump units with an appropriately sized Steam Trap preassembled at the factory and mounted on a common base plate, allowing for simple installation. Pump-trap combos with an external trap are suitable when capacity requirements exceed internal steam trap designs. Available in several sizes and capacities.

The Pump-Trap Combination allows condensate discharge under all operating conditions of modulating equipment, including vacuum.