

# NON-ELECTRIC CONDENSATE PUMPS

## Customized Skid Packages

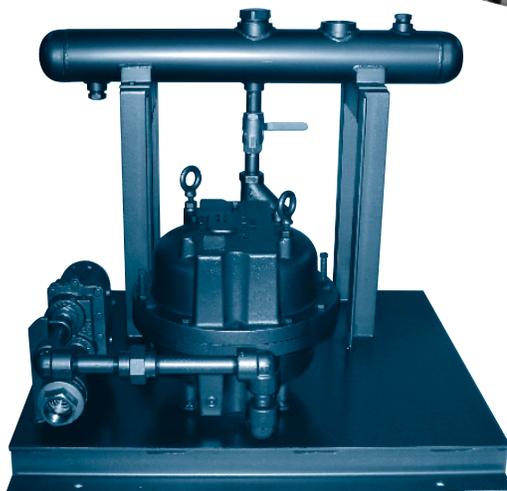
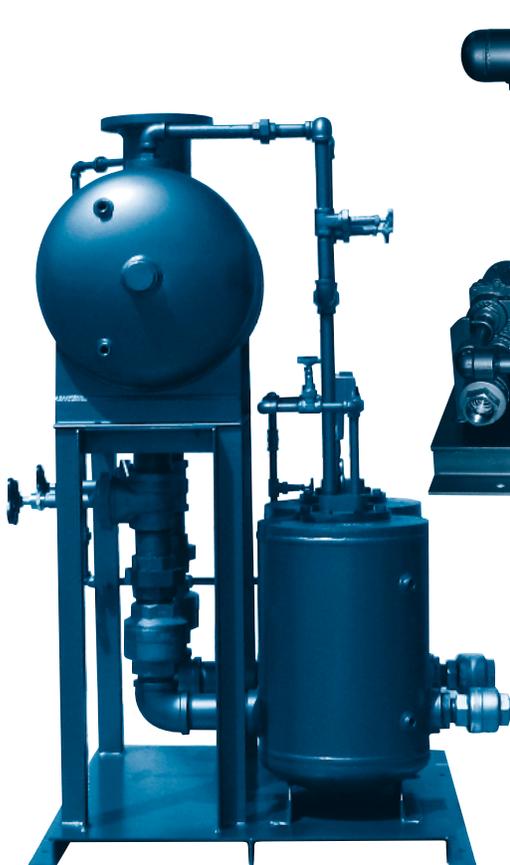
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### Pressure Motive Condensate Pumping Systems

PUMPS

## Custom Fabricated Units

Watson McDaniel's fully equipped ASME qualified fabrication facility stands ready to assist you with all of your fabrication needs. Our engineering staff specializes in the design of Pressure Motive Condensate Pumping Systems for both industrial and institutional applications. You can order either standard packages, available from stock, or specialized systems to meet your specific needs.



**ASME  
Certified**



# NON-ELECTRIC CONDENSATE PUMPS

## Custom Skid Packages

### Pressure Motive Condensate Pumping Systems

#### DESCRIPTION OF CUSTOM SYSTEM

This "Closed Loop" Duplex Pump package utilizes two PMPF Pumps, two FTE Steam Traps, and one 65 gallon receiver tank equipped with a safety relief valve. The Receiver is vented to take the flash steam away at 29 PSIG for usage elsewhere in the plant. To accomplish this, our **pilot-operated back pressure regulator (BPR)** is mounted just off the vent line and set to maintain the 29 PSIG pressure. If pressure exceeds the set, the BPR unit will dump to atmosphere thru the supply acoustic silencer.

Another custom feature is an overflow circuit utilizing a custom flash tank equipped with a **Temperature Regulator** for cooling applications. In the event of a pump failure, the flooded receiver will overflow the hot condensate into the flash vessel where steam will vent to atmosphere while the condensate gets injected with cold water to safely dump to drain.

