

NON-ELECTRIC CONDENSATE PUMPS

Skid Mounted Systems

PMPC & PMPF Skid Mounted Systems

Revised 7/2002

Standard Skid Mounted Systems

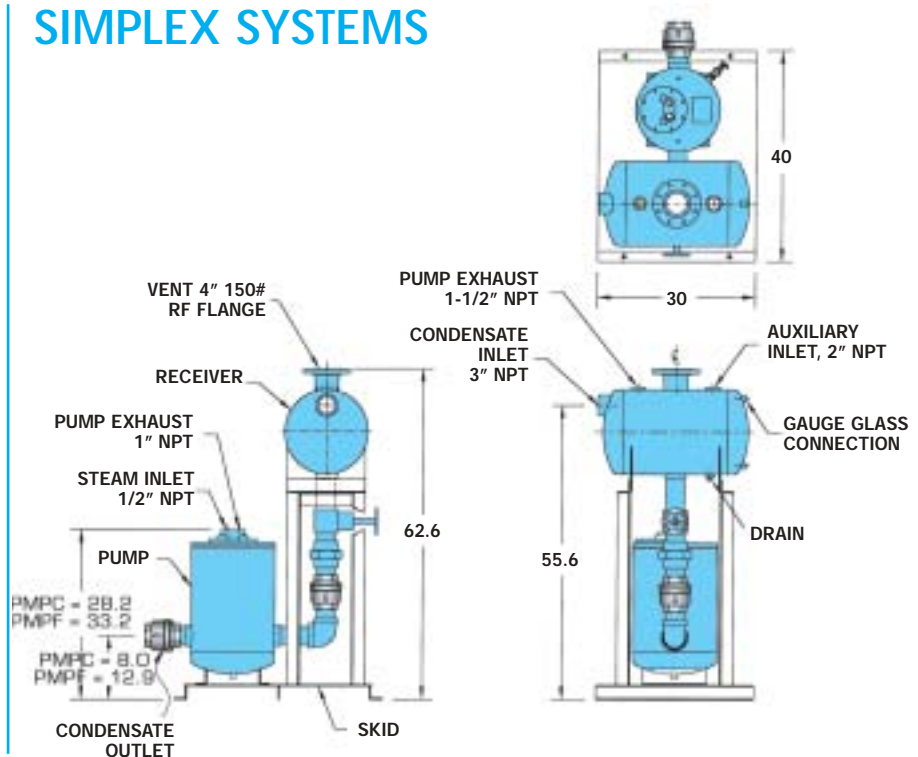
FEATURES

- Easy to install with only 3 connections to be made in the field
- Dramatically reduces installations costs with all system elements pre-piped
- Utilizing Watson McDaniel's years of experience will ensure that vented receivers or pressurized reservoirs are properly sized for optimum system performance
- Watson McDaniel's fully-qualified fabrication facility is ASME code certified. Our engineers can design and build complete custom systems to meet all your requirements

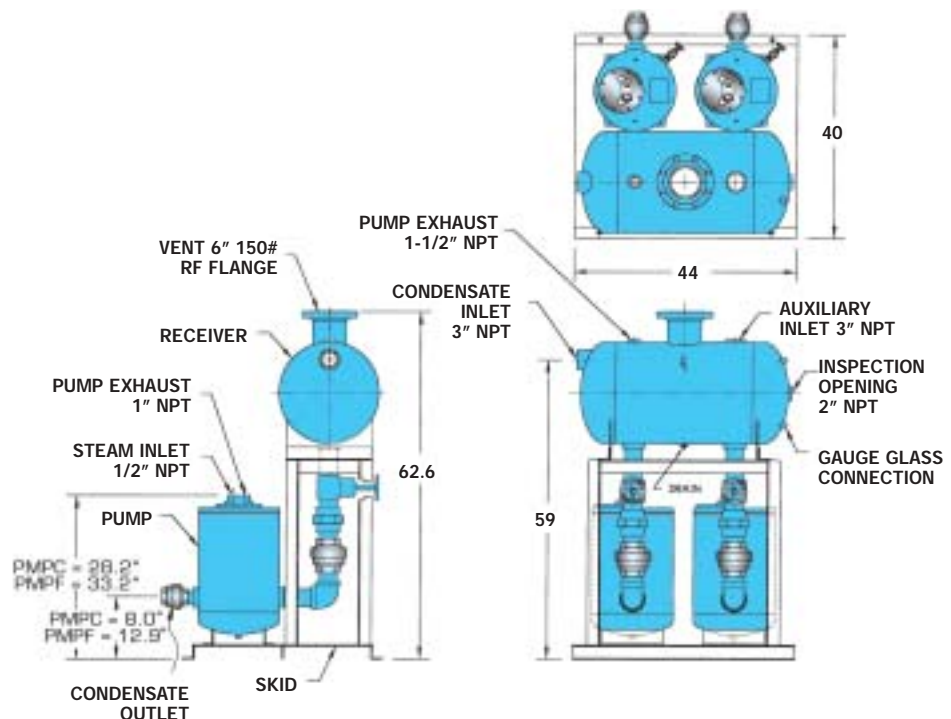
TYPICAL OPTIONS

- Gauge glass assembly
- Cycle counter
- Insulation covers
- Motive steam drip trap
- Overflow pipe connection
- Pressure regulator for motive supply line

SIMPLEX SYSTEMS



DUPLEX SYSTEMS



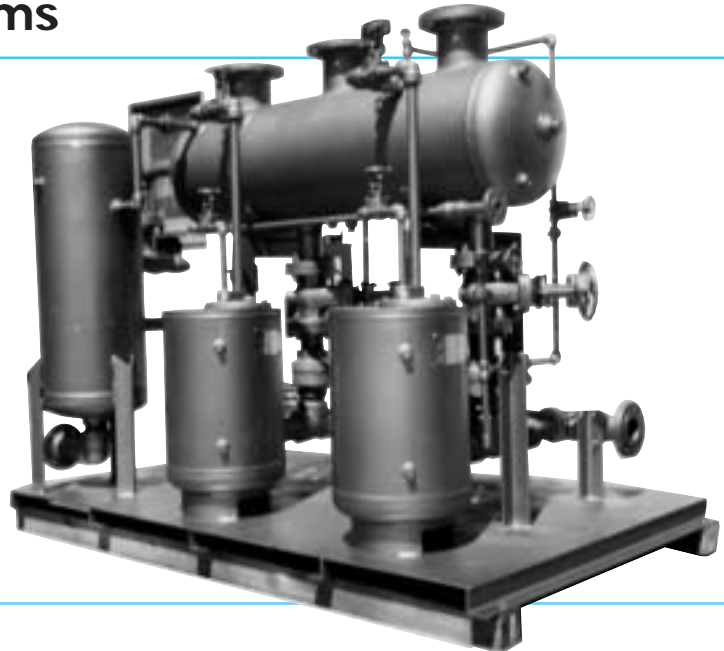
NON-ELECTRIC CONDENSATE PUMPS

Skid Mounted Systems

Pressure Motive Pumps

Custom Fabricated Systems

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.



PUMPS

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 relief valve 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 to the supply acoustic silencer.

Another custom feature is an overflow circuit utilizing a custom flash tank equipped with our Series 153 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.

