

HIGH PRESSURE RINSING SYSTEM

THE CHALLENGE

The Customer was using a piston/plunger pump for their sanitation process and found it was constantly requiring service. The demand to accommodate multiple showers and the necessary increase in pressure proved to be too much for the existing system, resulting in increased downtime and maintenance and constant delays in the sanitation process. The customer needed a solution to this problem, needed it fast and within a restrictive budget.

THE SOLUTION

Our pump application expert met with the Customer in order to understand their present and future application requirements. Working with our Engineered Systems team they came up with a recommendation for a duplex pump and motor assembly package with controls, isolating valves, dampeners, gauges, pressure transmitter, check valves.

THE RESULTS

- ▶ Improved Uptime
- ▶ Reduced Service & Maintenance Costs
- ▶ Significant Energy Savings

For more information on this solution or if you have a fluid handling challenge of your own - Contact a John Brooks Company Application Expert today!



FOOD PROCESSING | SANITATION PROCESS HIGH PRESSURE RINSING SYSTEM

TECHNOLOGY UTILIZED

Wanner Engineering Inc. Hydra-Cell Pump Technology - Two Model D35 Seal-less Diaphragm Pumps ([Click for the D35 Data Sheet](#)) with Buna Elastomers, mounted on a base with 30hp Motors. One pump was intended to back-up the other pump but they can also work in unison when there are high demands.

HOW IT WORKS

- Pumps are energized by the motors which are wired to the VFD's. The VFD's are inside the Control Panel which is wired to the Pressure Transmitter.
- The controls adjust themselves to the operation's/plant's requirements. i.e. when the spray gun is triggered - the pump speed will increase to reach the desired pressure and will slow down once the pressure is obtained.
- If other processes require water such as spray nozzles or other spray guns, the VFD will adjust the speed accordingly.