

Waste pH Neutralization

Regulate pH of waste streams prior to treatment or discharge.

Skid-mounted, multi-stage, continuous flow and batch waste neutralization systems for the pharmaceutical industry that monitor and regulate the pH level of effluent waste streams to meet local sewer authority discharge guidelines.

From small lab, compact solutions (100 – 2000 Liters per Day) to production facility solutions (over 750 Liters per Minute), PRI can design a system to meet your specific performance and space requirements, and comply with industry standards. PRI's Waste Neutralization Systems are fully engineered, fabricated and tested in our facility.



EQUIPMENT OVERVIEW

- Tanks: Heavy duty PE / PP / FRP or stainless alloy
- Piping: PVC / cPVC / PE / PP / FRP or stainless alloy
- Controls: NEMA 4 / 4X with PLC, touchscreen HMI and emergency stop
- Instrumentation: pH, flow, and level, with optional temperature
- Precision chemical feed pumps for acid / caustic injection
- Internal agitation / mixer
- Flow diversion valves with recirculation loop as required
- Operating vents
- Centrifugal effluent discharge pump(s)
- Manway (as required)

OPTIONS

- Integration with upstream / downstream systems
- SCADA / Modbus interface with BAS
- Process sampling port
- Process cooling loop
- Manual strainers to remove aggregated solids
- Access platform (as required)

TECHNICAL SUMMARY

Biosafety Class:	BSL-1 through BSL-4
Hourly Capacity:	from 2.2 L (0.5 G) to 45,000 L (11,888 G)
Power:	1ph/3ph to suit site requirements
Controls:	NEMA 4 / 4X with PLC, touchscreen HMI and emergency stop
Tank Materials:	Heavy duty PE / PP / FRP or stainless alloy
Piping Materials:	PVC / cPVC / PE / PP / FRP or stainless alloy

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Single: 5gpm



Single: 10gpm



Double: 30gpm



Custom

