

Vortex Tablet Chlorination

SYSTEMS

SYSTEM TECHNOLOGY



The latest generation HTS-80-P2 Vortex tablet chlorinator marks 25 years of proven performance and dependability in water disinfection. Improvements in eroder design significantly reduces maintenance labor and personnel contact with chemicals. TKM™ heavy duty diaphragm pumps with adjustable stroke in addition to Hammonds variable speed controls provide precise, repeatable metering of calcium hypochlorite solution for a variety of disinfection applications. The standard HTS-80-P2 is SCADA ready and can be controlled manually or paced automatically by a 4-20 mA signal from a chlorine analyzer or process flow meter. Hammonds' patented Vortex tablet eroder operates on a fixed 8 GPM water supply that produces an adjustable strength calcium hypochlorite solution from 0 - 0.25% concentration. The HTS-80-P2 is a complete system out of the box powered by a 20 amp 110 VAC circuit providing consistent residuals for potable and waste water treatment.

U.S. Patents: 6,337,024 B1 • 6,451,271 B1 • 6,531,056 B2 • Others Pending

SPECIFICATIONS

- Tablet recommendations: NSF® Std. 60 listed solid calcium hypochlorite only
- Performance: Typical 50 – 2,000 GPM wells and fresh water supply at dosing levels up to 2 PPM
- Chlorine delivery: 0 – 3.0 pounds of chlorine per hour. Delivery will vary depending on size and manufacture of calcium hypochlorite tablet.
- Solution metering pump:
 - Type: Diaphragm, positive displacement, variable stroke and variable speed
 - Performance: 0 – 2.75 GPM
- Chlorine delivery controls:
 - Manual: Pump speed with variable control, panel mounted
 - Automatic flow pacing: Automatically adjusts pump speed when supplied with 4-20mA signal from process flow meter or chlorine analyzer
 - Solution Strength: Solution concentration can be varied by adjustment of Vortex by-pass water. (8 GPM feed water remains unchanged)
- Tablet Capacity: 80 lbs.
- Water required: 8 GPM clear, potable at pressures of 30 – 75 PSI (Feed water pressures above 75 PSI requires an optional inlet pressure regulator)
- Frame: Laser cut, hot dip galvanized steel
- Leveling legs: (4) stainless steel adjustable with leveling bubble
- Dimensions:
- Weight:

ELECTRICAL SPECIFICATIONS

- Enclosure: UL® listed NEMA 4X
- Power supply: 110 VAC @ 5 amps
- Pump motor: 1/3 hp, variable speed, TEFC, 90 VDC
- SCADA READY

CONSTRUCTION MATERIALS

- Frame: Laser cut, hot dip galvanized steel with hot dip galvanized fasteners
- Tablet feeder (eroder): PVC
- Mixing chamber: HDPE tank with all PVC internal components including lid
- Solution tank: 33 gallon, HDPE 24"L x 18"W x 18"H
- Piping: Sch. 80 PVC
 - Inlet water supply at bulkhead: 1" Sch. 80 PVC
 - System Outlet: 1/2" FNPT
 - All piping is Sch. 80 PVC or 1" nylon reinforced PVC clear tubing
- Relief valve: Sch. 80 PVC
- Flow limiting valve: PVC
- All pipe and hose fittings: Sch. 80 PVC
- Bulkhead Fittings: HDPE spin welded and Sch. 80 PVC
- Pump Suction Strainer: PVC
- Pump:
 - Fluid end: PVC,
 - Valves: Ceramic with Viton® trim
 - Diaphragms: Teflon®/EPDM

OPTIONAL EQUIPMENT

- Chlorine analyzer, chart recorder, back-up injection pump, inlet pressure regulator, inlet strainer

CERTIFICATIONS

- Entire system is NSF® 61 listed (pending), Hammonds is ISO 9001:2015, Hammonds is a UL® certified mfg. facility™

INNOVATION—pure and simple

To contact a Hammonds water treatment specialist, please call (800) 582-4224.