

Vortex Tablet Chlorination

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S Y S T E M T E C H N O L O G Y



The HTS-10-P2 combines all the advantages of our larger high energy vortex feeders but aimed at small volume disinfection applications. Designed specifically for rural communities, mobile home parks and individual commercial wells, this compact system mirrors the larger HTS-80-P2 system in features and versatility. Like all Hammonds tablet chlorinators, the patented vortex eroder produces a consistent, low concentration of calcium hypochlorite solution that is easily adjusted from 0 - .25% from a constant potable supply of 4 GPM. Every system comes standard out-of-the-box with SCADA ready, UL certified controls that may be managed manually or paced automatically with a 4 – 20 mA signal from your chlorine analyzer or process flow meter. This third generation chlorination system utilizes an easy to service sliding sieve plate, external weirs and lift away eroder that makes handling smelly chemicals almost a thing of the past.

U.S. Patents: 6,337,024 B1 - 6,451,271 B1 - 6,531,056 B2 and others pending

S P E C I F I C A T I O N S

- Tablet recommendations: NSF®Std. 60 listed solid calcium hypochlorite only
- Performance: Typical 10 – 150 GPM wells and fresh water supply at dosing levels up to 2 PPM
- Chlorine delivery: 0 – .15 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 – 19 GPH
- 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. (4 GPM feed water remains unchanged)
- Tablet Capacity: 10 lbs.
- Water required: 4 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: 44 1/4" L x 53" H x 28 1/8" W
- Weight: 196 lbs.

E L E C T R I C A L S P E C I F I C A T I O N S

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

C O N S T R U C T I O N M A T E R I A L S

- Frame: Laser cut, hot dip galvanized steel with hot dip galvanized fasteners
- Tablet feeder (eroder): PVC
- Mixing chamber: HDPE 5 gallon tank with all PVC internal components including lid
- Solution tank: 22 gallon, HDPE 24" L x 12" 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

O P T I O N A L E Q U I P M E N T

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

C E R T I F I C A T I O N S

- Entire system is NSF 61 listed, (Application pending), Hammonds is ISO 9001:2015, UL certified electrical

HTS-10-2P System Components

