

HIGH ENERGY VORTEX
WATER TREATING
SYSTEMS

Hammonds

HTS-80P
Manual Chlorinator

Vortex Tablet Chlorination

SYSTEMS



FLUID TECHNOLOGY



The Hammonds advanced technology vortex chlorinator takes the mystery out of on-site, engineered tablet chlorination. Not to be confused with adapted swimming pool feeders, Hammonds chlorinators are designed from scratch for municipal and industrial disinfection. A high energy vortex mixing chamber with no moving parts produces calcium hypochlorite solution at less than 1/4% (0.25%) concentration precisely metered by a positive displacement pump providing disinfection for wells to 2000 GPM. Single phase 110 VAC power at 5 amps and a water source of 8 GPM is all that is required to provide consistent stable residuals in potable and wastewater treatment. Hammonds vortex tablet chlorination systems, are the state-of-the-art in water treatment systems. Contact a Hammonds water treatment specialist today.

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

ADD THIS TO
NEW DESCRIPTION

SPECIFICATIONS

- Tablet recommendations: NSF® std. 60 listed solid calcium hypochlorite only.
- Performance: Typical 50-2000 GPM wells at dosing levels up to 2 PPM
- Chlorine delivery: 0-3.0 pounds per hour. Delivery will vary depending on size and manufacture of calcium hypochlorite tablet
- Solution metering pump:
 - Type: Balanced diaphragm, positive displacement
 - Performance: 0-3 GPM
- Chlorine delivery controls:
 - Manual: Pump speed with variable control
 - Automatic flow pacing: Automatically adjusts pump speed when supplied with 4-20mA signal from process flow meter
- Tablet capacity: 80 lbs.
- Water required: 8 GPM clear, potable at pressures of 30-150 PSI
- Power: 110 VAC @ 3 amps
- Discharge pressure: Up to 150 PSI, higher pressures available
- Inlet pressure: 30 - 150 PSI
- Frame material: Hot dip galvanized angle iron
- Leveling legs: (4) stainless steel adjustable with leveling bubble
- Dimensions: 24" W x 60" H x 49" L
- Weight: 260 lbs.

CONSTRUCTION MATERIALS

- Frame: 1/2" x 1/2" hot dip galvanized steel
- Mixing reservoir: 30 gallon - polyethylene (actual used capacity approximately 6 gallons)
- Tablet feeder: PVC
- Solution tank: 25 gallon polyethylene 12" W x 20 1/2" H x 20" L)
- Piping: Sch. 80 PVC
 - Inlet water supply at bulkhead: 1" Sch. 80 PVC
 - Outlet 1/2" fnpt
 - Circulation to mixing reservoir: 3/4" Sch. 80 PVC
 - Discharge from circulation reservoir to solution tank: 2" Sch. 80 PVC
 - Suction feed to pump: 1" nylon re-enforced PVC clear hose, PVC hose barbs
 - Pump discharge manifold to system outlet: 3/8" nylon re-enforced PVC tubing with PVC hose barbs
- Relief valve: Sch. 80 PVC
- Flow limiting valve: PVC
- Unions/bulkhead fittings: Sch. 80 PVC
- Pump suction strainer: PVC
- Pump:
 - Fluid end: Polypropylene
 - Elastomers: Viton®
 - Lube oil: Food grade
 - Valves: 316 S.S.
 - Diaphragm: Viton®

ELECTRICAL SPECIFICATIONS

Enclosure: UL® listed NEMA 4X
Power supply: 110 VAC @ 5 amps, actual consumption less than 5 amps
Pump motor: 1/3 hp, variable speed, TEFC, 90 VDC

OPTIONAL EQUIPMENT: Chlorine analyzer, chart recorder, back-up injection pump, remote panel for controls, analyzer, and recorder

CERTIFICATIONS

INNOVATION—pure and simple

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

Hammonds

HAMMONDS WATER TREATMENT SYSTEMS

910 Rankin Road • Houston, Texas 77073
Phone (800) 582-4224 • Fax (281) 847-1857
www.waterchlorination.com



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:
 - Manuel: 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

MATERIALS OF CONSTRUCTION

- 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”Wx 18”H
- Piping: Sch. 80 PVC
 - Inlet water supply at bulkhead: 1” Sch. 80 PVC
 - System Outlet: ½” 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

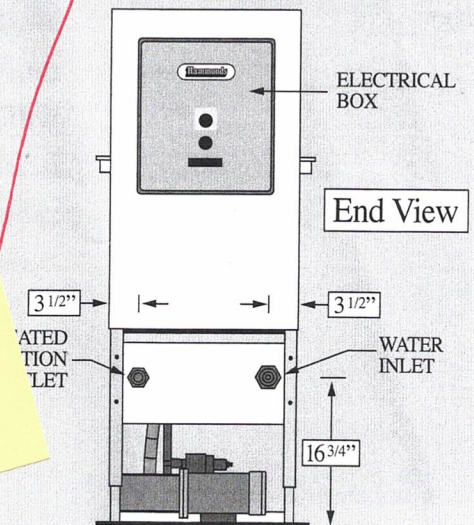
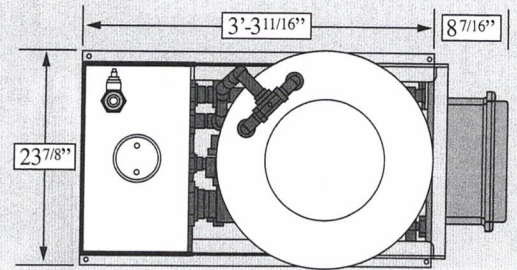
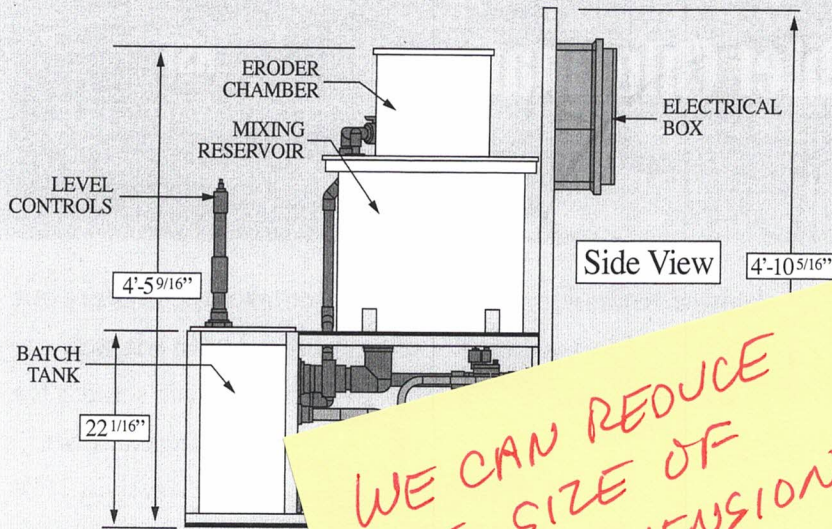
- Chlorine analyzer, chart recorder, back-up injection pump, inlet pressure regulator, inlet strainer

CERTIFICATIONS

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

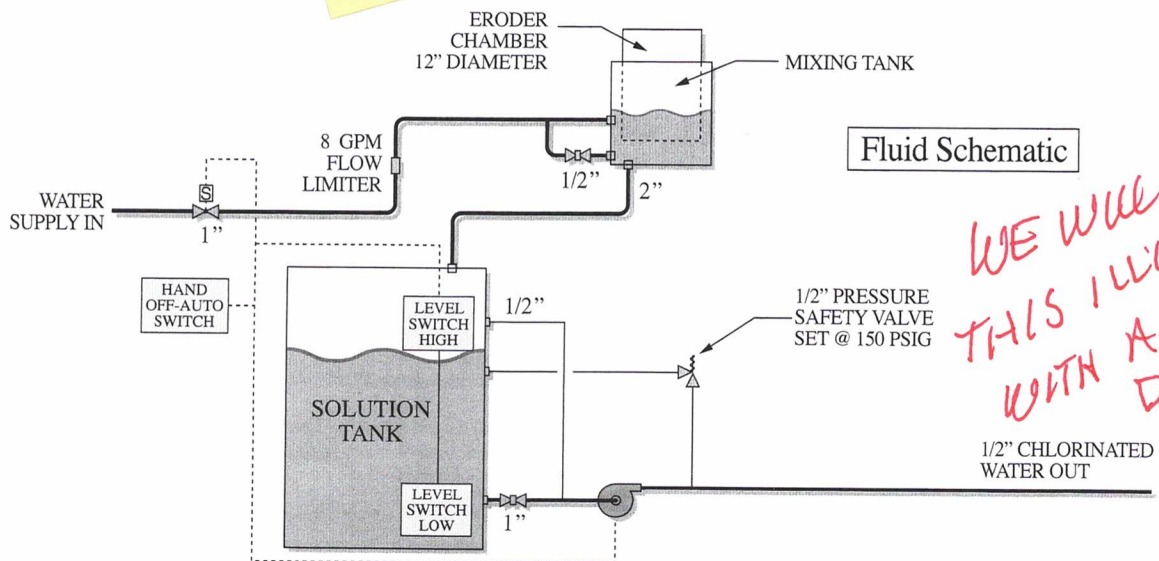
SYSTEM TECHNOLOGY

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.



WE CAN REDUCE THE SIZE OF THESE DIMENSIONS - THERE MAY BE ROOM TO ADD THE TOP VIEW

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HAMMONDS TEC
AND MAY NOT BE USED, CO
OR PART WITHOUT THE
Hammonds Tech



WE WILL CHANGE THIS ILLUSTRATION WITH A NEW DWG.



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