

Water treatment systems  
High energy vortex feeders



**HTS-10P**  
Small Application  
Disinfection System

## Vortex Tablet Chlorination

SYSTEMS

### FLUID TECHNOLOGY



Hammonds brings all the advantages of the high energy vortex feeder to this small application disinfection system. Designed specifically for lower volume rural wells, mobile home parks, and individual commercial wells, this compact system mirrors the larger HTS80 system in features and versatility. The heart of the system is Hammonds' exclusive high energy vortex, with no moving parts, that produces a low strength solution of calcium hypochlorite. Infinitely variable solution strength and solution delivery makes this system capable of treating the smallest of wells or industrial disinfection applications. One system, out of the box, for any flow or pressure up to 150 GPM or pressure to 150 PSI.

U.S. Patents: 6,337,024 B1 • 6,451,271 B1 • 6531,056 B2

### SPECIFICATIONS

- Performance: Typical 10-150 GPM wells at dosing levels up to 2 PPM
- Chlorine Delivery: 0-15 pounds per hour
- Water supply requirement: 4 GPM @ 30-150 PSI
- Discharge pressure: 0-150 PSI
- Tablet capacity: 10 lbs.
- Power: 110 VAC @ 3 amps
- Dimensions: 21 9/16" W x 2' - 9 9/16" L x 4' - 2 1/16" H
- Weight: 80 lbs.
- Stainless steel leveling legs
- Variable speed pumps
- All system components NSF® listed
- SCADA ready
- Tablet Recommendations: NSF® Std. 60 listed solid calcium hypochlorite only
- Chlorine delivery: 0-15 lbs. per hour Delivery will vary depending on size and manufacturer of calcium hypochlorite tablet
- Solution metering pump: Type: balanced diaphragm, positive displacement, variable speed-Performance: 0-5 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 or controller (PID)

### STANDARD FEATURES

- 6 gallon solution tank
- Balanced diaphragm positive displacement pump
- Manual pump controls
- High pressure relief valve
- Hot dip galvanized frame
- Ten pound tablet storage

### CONSTRUCTION MATERIALS

- Frame: 3/4" x 3/4" hot dip galvanized steel
- Mixing reservoir: NSF® listed 5 gallon high density polyethylene
- Tablet feeder: NSF® listed PVC
- Solution tank: NSF® listed PVC
- Piping: Schedule 80 PVC (all components NSF® listed)
- Inlet water supply: 1/2" FM NPT schedule 80 PVC
- Relief valve: Schedule 80 PVC
- Supply solenoid valve: Noryl
- Pump relief valve: PVC
- Pump:
  - Fluid end: polypropylene
  - Elastomers: Viton®
  - Lube oil: FDA approved, food grade
  - Valves: 316 S.S.
  - Diaphragm: Viton®

OPTIONAL EQUIPMENT: Process controller, chlorine analyzer  
zchart recorder, flow proportional

### INNOVATION—pure and simple

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



### HAMMONDS TECHNICAL SERVICES

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Water treatment systems  
High energy vortex feeders



**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.

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## 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.

### 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

## 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®

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

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