

YardGuard™



- *Emergency inmate/crowd control*
- *Based on successful Water Restraint System (WRS) installations*
- *All new compact enclosure design*
- *Easy to install and maintain*
- *Programmable Logic Control (PLC) System*
- *Fast target acquisition*
- *Automatic water stream safety adjustment*
- *Dynamic chemical injection*

DESCRIPTION

The YardGuard is an oleoresin capsicum (OC) injection water restraint system, OC being the parent name for pepper spray. Water Restraint Systems (WRS) have been successfully controlling inmates and protecting staff since 1998. Since operational deployment, there have been NO injuries to staff or inmates caused by WRS. The new YardGuard is completely self-contained and modular. The system is straight forward to install, simple to maintain, and provides even easier and faster target acquisition and inmate control.

SELF-CONTAINED AND MODULAR DESIGN

The YardGuard is manufactured, preassembled and tested at the Akron Brass factory. The fluid delivery system is contained in one enclosure. The unit is to be installed on the institutions' concrete mounting pad. The YardGuard Water Cannon can be mounted directly on top of the delivery cabinet or remotely mounted and connected with piping.

The YardGuard delivery cabinet is manufactured of heavy gauge steel with lockable inspection panels. The unit can be installed in either secure or non-secure spaces.

Because the YardGuard fluid delivery system is contained in one enclosure, maintenance is easily performed. Secure panels are removable allowing easy access to all components.

YARDGUARD NOZZLE CONTROL

This nozzle pattern automatically varies from a straight stream to a fog stream depending on the shooting direction and distance. This is to help prevent water stream injury at close range.

Comments from officers:

"We no longer have the inmate injuries we used to have before this system installation."

"We have been able to cut the time needed to stop fighting in half with this system."

"The monthly cost of munitions used to stop inmate fighting has been cut more than half."

Comments from inmates:

"When it hit me, the water felt cool but whatever was in it took my breath away."

"It burned real bad. It did the job."

"Worked real good. It will sure make someone think before fighting."



YARDGUARD™ NOZZLE POSITION CONTROL

The YardGuard nozzle includes special sensors that return precise position signals to the control system.

1. As the nozzle is pointed at closer targets, the automatic nozzle stream control feature is activated to provide for the correct chemical coverage to the target area.
2. When rapid nozzle movement is required by the operator; the nozzle responds by automatically moving at a high rate until the nozzle is near the desired location, thereby speeding target acquisition.
3. Multiple control positions can easily be programmed.
4. For long reach installations, nozzle can be programmed for straight stream only.

CONSTRUCTION

Size:

Base:	Concrete base can be as small as 32 inches by 44 inches.
Height:	10' tall cabinet
Water tank:	200 gallons
Chemical tank:	25 gallons

Power:

Electrical
208/230 VAC, 3-phase, 4-wire, 18 KVA
(50 amperes circuit rating)

Pump:

15 HP shrouded impeller single stage pump

Performance:

125 GPM
5% injection
Max reach 125'

PROGRAMMABLE LOGIC CONTROL

The new features most requested by existing system operators are an adaptable and flexible control system. The YardGuard delivers both.

The PLC uses redundant communications between all components. PLC programming and troubleshooting is easily accomplished using a laptop computer.

The PLC displays English language messages on the video screen. The primary video screen is located at the control location. A secondary video screen can be located at the electrical control enclosure for WRS troubleshooting.

OPERATOR CONTROLS

A joystick with trigger allows operator left, right, up and down monitor control. Trigger activation is provided for chemical injection.

Gauges show water & OC tank levels. Water tank refills automatically. The OC is refilled manually.

A video camera is mounted on the YardGuard nozzle to record incident footage on digital recorder for legal purpose. The nozzle mounted camera may also be used for "eyes" of the operator with viewer device.

DIRECT CHEMICAL INJECTION

The YardGuard system utilizes a direct injection system. A positive displacement pump is dedicated to injecting OC into the water stream, allowing OC to be stored at atmospheric pressure.

Security:

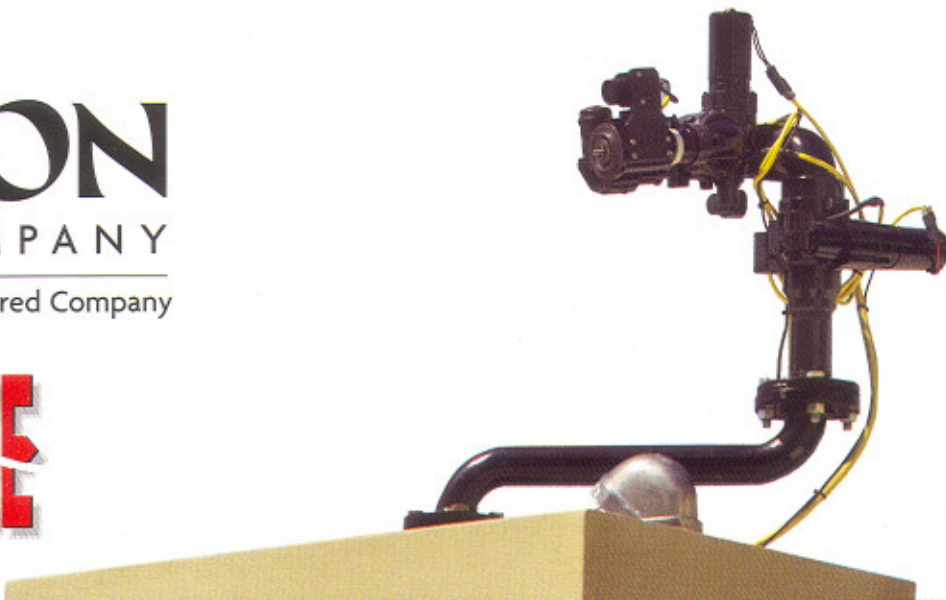
- Steel cabinet with high security fasteners
- All inspection panels with security locks
- Two piece cabinet fits through doorways
- Designed for installation in custody or non custody areas
- Indoor applications
- Alternative flow rates available
- Contact the factory for drawings and installation specifications.



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