

## **Industrial Monitor Systems**

## **Conquest™ Electric Remote Controlled Monitor System** 2000 GPM (7600 LPM)

The Conquest Electric Remote Controlled Monitor System was designed as a small compact unit with exceptional performance and value. This System is ideal for use in industrial fire suppression, vapor mitigation, and other fixed site applications.

## 3678 **Conquest Electric Monitor System**

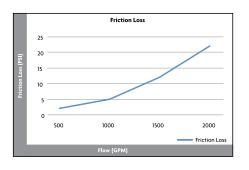
- Brass construction for use in severe environments
- Efficient flows up to 2000 gpm (7600 lpm) through a 4" waterway
- FM approved for NEC Class 1, Div 2, Groups C & D hazardous locations
- ATEX approved for Zone 1, 2, 21, & 22 hazardous locations
- Electric motors with current limiting and dynamic braking
- Fixed or automatic baffle nozzles
- Manual overrides
- Custom Engineered to your specification (Available)





Conquest Drive System

3678 Conquest	
Material	Cast brass construction
Max. Flow	2000 gpm (7570 lpm)
Inlet	4" 150# Flange
Outlet	3½" NH
Waterway	4" (102mm) diameter internal waterway with turning vanes
Friction Loss	22 psi at 2000 gpm (1.4 bar at 7600 lpm) 6 psi at 1000 gpm (0.42 bar at 3800 lpm)
Rotation	340° rotation.
Elevation	175°, +90° above horizontal to -85° below horizontal.
Motors	AC motors with brass housings for eleva- tion and rotation. Motors are rated for hazardous locations. Motors have manual override for operation during power failures.
Operating Pressure	200 psi max. (14 bar max.)
Dimensions	21½" (546 mm) high, 17" (432 mm) wide (radius of motion), and 14" (356 mm) deep (radius of motion)
Weight	212 lbs. (96 kg)
Max. Reaction Force	1430 Lbf. (6360 N)
Moment at Base Inlet	1907 Lbft. (2585 N-m)
Approvals	ATEX Zone 1 II 2 D Ex tb III C T85°C Db (-20° C ≤ Ta ≤ 60°C)  ATEX Zone 2 II 3 G Ex nR IIC T6 Gc
	(-40° C ≤ Ta ≤ 60°C) FM NEC Class 1 DIV2





Type   Custom Three Axis AC Motor Drive   Features   Forward and reverse operation for each motor   Over current and current limiting protection for each motor   Dynamic braking for each motor   No holding torque applied to stopped motors.   Manual override capabilities remain when drives are powered   Enclosures   NEMA 4X, NEMA 7   Operator inputs for control of monitor axis   Left/right, Up/Down, Stream/Fog from master or slave control panel   Inputs from master override slave inputs   Conflicting inputs are ignored   Axis control circuitry, for master/slave control panel, is 24VDC   LED power indicator   LED output indicators   LED input indicators   LED status indicators for troubleshooting   120 VAC input line filter   15 Amp slow-blow fuse   +140 to -40 F operating temperature   Jumper selected "Nozzle return to fog on power down" feature on motor drive   Finger safe, pluggable socket type, terminal strips used through out 2 - Auxiliary relays for water on/off, foam on/off or customer selected functions are included   PC board is coated to resist corrosion   Three axis drive is a self contained unit which is easily removable for repair/ replacement   Can be located up to 1000 feet (300 meters) away from the Conquest Remote Controlled Monitor.   Electrical Requirements   120VAC, 10 amp, 60Hz or 240VAC, 5 amp,50Hz, supplied to the motor drive box. Other voltages available.   AFEX Zone 2 - II 3 G Ex nA n C IIC T6 Gc   FM NEC Class 1 DIV2	3678 AC Conquest Motor Drive		
Over current and current limiting protection for each motor Dynamic braking for each motor No holding torque applied to stopped motors. Manual override capabilities remain when drives are powered  Enclosures  NEMA 4X, NEMA 7  Operator inputs for control of monitor axis  Inputs from master override slave inputs Conflicting inputs are ignored Axis control panel Inputs from master override slave control panel, is 24VDC  LED power indicator LED output indicators LED output indicators LED status indicators LED status indicators for troubleshooting 120 VAC input line filter 15 Amp slow-blow fuse +140 to -40 F operating temperature Jumper selected "Nozzle return to fog on power down" feature on motor drive Finger safe, pluggable socket type, terminal strips used through out 2 - Auxiliary relays for water on/off, foam on/off or customer selected functions are included PC board is coated to resist corrosion  Three axis drive is a self contained unit which is easily removable for repair/ replacement Can be located up to 1000 feet (300 meters) away from the Conquest Remote Controlled Monitor.  Electrical Requirements  Approvals  ATEX Zone 1 – II 2 G Ex d IIB T6 Gb ATEX Zone 2 – II 3 G Ex nA nC IIC T6 Gc	Туре	Custom Three Axis AC Motor Drive	
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FM NEC Class 1 DIV2		ATEX Zone 2 – II 3 G Ex nA nC IIC T6 Gc	
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