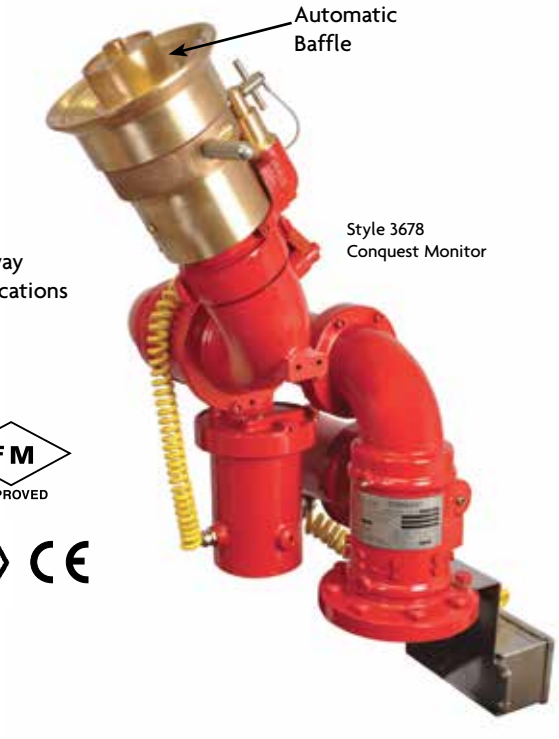
Conquest™ Electric Remote Controlled Monitor System

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)

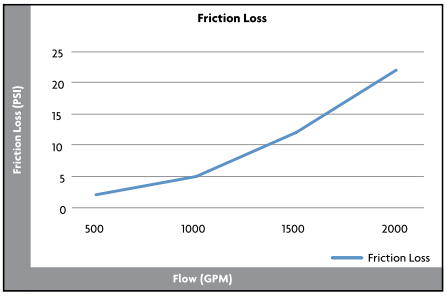


Style 3678
Conquest Monitor

FM APPROVED

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 elevation 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 Lb.-ft. (2585 N-m)
Approvals	ATEX Zone 1 II 2 D Ex tb IIIC 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



3678 AC Conquest Motor Drive	
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
Other drive features	LED power indicator
	LED input indicators
	LED output 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.
Approvals	ATEX Zone 1 – II 2 G Ex d IIB T6 Gb
	ATEX Zone 2 – II 3 G Ex nA nC IIC T6 Gc
	FM NEC Class 1 DIV2