

Conquest Remote Control Monitor System

STYLE 3678

The Conquest Electric Remote Controlled Monitor System is ideal for use in industrial fire suppression, vapor mitigation, and other fixed site applications. In addition, the Conquest is an ideal petro-chemical monitor.

Features

The Style 3678 Conquest Monitor is a fixed site, electrically operated, vapor mitigation and fire fighting device, designed to flow water up to 2000gpm. Unlike many competitors that adapt existing products intended for truck applications the AC Conquest is specifically designed for industrial applications and the harsh environments they are located in. ATEX approved for all gas groups II 3 G Ex nR IIC T6 Gc. Also FM approved for Class 1, Div. 2, Group C & D locations.

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
- Electric motors with current limiting and dynamic braking: AC motors with brass housings for elevation and rotation. Motors have manual override for operation during power failures.
- Fixed or automatic baffle nozzles
- Manual overrides
- Elevation: 175°, +90° above horizontal to -85° below horizontal.
- Electrical: 120VAC, Supplied from the Motor Control Unit.
- Max. Reaction 1430Lbf. (6360 N)
- Force Moment at Base Inlet: 1907Lb.-ft. (2585 N-m)

Conquest Nozzle

The Style 5097/5098/5099 or 2197/2198/2199 Conquest Nozzles are electrically adjustable fog nozzles. The 5097/5098/5099 nozzle comes equipped with a pressure balanced baffle designed to flow 300 – 1000gpm or 500 to 2000gpm at an approximate pressure of 100 psi. The 2197/2198/2199 nozzles are a Fixed Orifice (Constant Flow) for flows from 500 to 2000gpm at an approximate pressure of 100 psi. All nozzles have manual override. ATEX approved for all gas groups II 3 G Ex nR IIC T6 Gc. Also FM approved for Class 1, Div. 2, Group C & D locations

Conquest Motor Control Unit



Specifications

Type	Industrial
Flow (GPM)	2000 gpm (7570 lpm)
Inlet	4" FF 150# flange
Outlet	3½" NH
Weight	185 lbs (75 kg)
Width	17 in (432 mm)
Height	21.53 in (radius of motion) (546 mm (radius of motion))
Depth	14 in (radius of motion) (356 mm (radius of motion))
Material	Cast Brass construction
Water Size	4" diameter internal waterway with turning vanes (102 mm diameter internal waterway with turning vanes)
Operating Pressure	14 bar max. (200 psi max.)

The Conquest Motor Control Unit contains a custom engineered, three axis motor drive module, control transformer, auxiliary relays and terminal strips for easy field connections. NEMA 4X enclosures, 304SS with 316SS available as option. ATEX approved for all gas groups II 3 G Ex nA nC IIC T6 Gc. Also FM approved for Class 1, Div. 2, Group C & D locations.

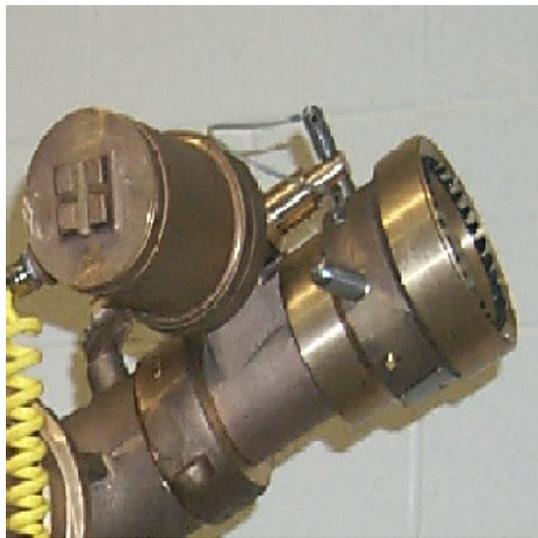
Applications/Solutions

- Engineered Solutions
- Firefighting - Industrial
- Petro-Chemical



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The system should consist of the following components, monitor, nozzle and Control system.

- Monitor – Shall be ATEX approved for all gas groups II 3 G Ex nR IIC T6 Gc. Also FM approved for Class 1, Div. 2, Group C & D locations. Cast Brass construction with a maximum flow of 7600 LPM (2000GPM), 4" FF 150 lb. Flange inlet x 3 ½" NH outlet with a 4" internal water way with cast in turning vanes, 340° rotation and +90° above horizontal to -85° below horizontal. Monitor shall have hard wired AC drive motors to be enclosed in a cast brass housing with manual override.

Temperature range from -40C to +60 C (-40F to 140F)

- Nozzle – Shall be a pressure balanced or fixed flow nozzle (Must specify). Shall be ATEX approved for all gas groups II 3 G Ex nR IIC T6 Gc. Also FM approved for Class 1, Div. 2, Group C & D locations. Cast Brass construction with flows between 1900 -7600 LPM (500 - 2000GPM). Nozzle to have hard wired AC drive motor to be enclosed in cast brass housing with manual override.
- Motor Control Unit – Shall be 120-600VAC 50/60 Hz and have three axis motor drive, line filter and terminal strip. It should have the following operator inputs, Left/Right, Up/Down, Stream /Fog from master or slave control inputs. It should have the following features, 120VAC LED power indicator, LED input and output indicators on drive, LED status for trouble shooting, 120VAC Line filter, 5 Amp slow blow fuse, internal hermetically sealed relays for water on/off, foam (Aux) on/off. Axis drive unit is a self-contained unit for easy repair or replacement. FM approved for: Class 1, Div. 2, Group C&D locations.

Also rated: ATEX Zone 2, II 3 G Ex nAnC IIC T6 Gc.

- Master Control Panel - The Master Control Panel will contain (Must Specify Qty. of stations) monitor control stations and use 24VDC control voltage supplied from the motor control unit.

Controls include: Power on/off selector switch with pilot light, Joystick for left/right and up/down operation, Set of fog/straight stream pushbutton switches, set of water on/off pushbutton switches (for Class 1, Div. 2, Group C & D locations).

Power on/off selector switch with pilot light, pushbuttons for left/right and up/down operation, Set of fog/straight stream pushbutton

switches, Set of water on/off pushbutton switches (for ATEX Zone 2, II 3 G Ex nAnC IIC T6 Gc. The enclosure will be, NEMA 4X, (Increased Safety for ATEX) and made of stainless steel.

Panel is pre-wired to a numbered terminal strip. Rated for Class 1, Div.2, Group C&D locations. Rated for: ATEX Zone 2 Locations

- Single Station Control Panel - The Local Control Panel will contain (1) monitor control station and use 24VDC control voltage supplied from the motor control unit. Controls include: Power on/off selector switch with pilot light, Joystick for left/right and up/down operation, Set of fog/straight stream pushbutton switches, set of water on/off pushbutton switches (for Class 1, Div. 2, Group C & D locations).

Power on/off selector switch with pilot light, pushbuttons for left/right and up/down operation, Set of fog/straight stream pushbutton switches, Set of water on/off pushbutton switches (for ATEX Zone 2, II 3 G Ex nAnC IIC T6 Gc. The enclosure will be, NEMA 4X, (Increased Safety for ATEX) and made of stainless steel.

Panel is pre-wired to a numbered terminal strip. Rated for Class 1, Div.2, Group C&D locations. Rated for: ATEX Zone 2 Locations