CONQUEST

Electric Remote Controlled Monitor

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.

- Brass construction of Monitor and Nozzle 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 Zone 2 hazardous locations, with option of Zone 1
- Electric motors with current limiting and dynamic braking
- Fixed or automatic baffle nozzles with wide angle fog pattern
- Manual overrides

### MONITOR SPECIFICATIONS

<table>
<thead>
<tr>
<th>Material</th>
<th>Cast brass construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Flow</td>
<td>2000 gpm (7570 lpm)</td>
</tr>
<tr>
<td>Inlet</td>
<td>4” 150# flange</td>
</tr>
<tr>
<td>Outlet</td>
<td>3 ½” NH</td>
</tr>
<tr>
<td>Waterway</td>
<td>4” (102mm) diameter internal waterway with turning vanes</td>
</tr>
<tr>
<td>Friction Loss</td>
<td>20 psi at 2000gpm (1.4 bar at 7600lpm) 6 psi at 1000gpm (0.42 bar at 3800lpm)</td>
</tr>
<tr>
<td>Rotation</td>
<td>340° rotation.</td>
</tr>
<tr>
<td>Elevation</td>
<td>175°, +90° above horizontal to -85° below horizontal.</td>
</tr>
<tr>
<td>Motors</td>
<td>AC motors with brass housings for elevation and rotation. Motors are rated for NEC Class I, Div. 2, Groups C &amp; D locations and EX II 3 G Ex nR IIC T6 Gc (-40° C &lt; Ta &lt; 60° C) ATEX Zone 2 locations. Motors have manual override for operation during power failures. Specifically designed for marine use.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°F to +140°F (-40°C to + 60°C)</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>200 psi max. (14 bar max.)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>21 ½” (546 mm) high, 17” (432 mm) wide (radius of motion), and 14” (356 mm) deep (radius of motion)</td>
</tr>
<tr>
<td>Weight</td>
<td>185 lbs. (84 kg)</td>
</tr>
<tr>
<td>Max. Reaction</td>
<td>3400 Lbf. [6360 N] Force</td>
</tr>
<tr>
<td>Moment At Base Inlet</td>
<td>1907 Lb-ft. [2585 N-m]</td>
</tr>
</tbody>
</table>

### 3678 CONQUEST MONITOR PERFORMANCE CHART

![3678 CONQUEST MONITOR PERFORMANCE CHART](chart.png)

© Copyright 2016 Akron Brass Company. All rights reserved. No portion of this can be reproduced without the express written consent of the Akron Brass Company. (12/16)
Nozzle Specifications

2197/5097
- Fixed orifice baffle/Constant pressure balanced baffle (automatic)
- Inlet 3-1/2” NH
- Brass construction
- Pattern straight stream to 90° wide fog
- Operating pressure maximum 150 psi (10.5 bar)
- Weight 53 lbs.
- 300-1000 gpm (1135-3800 lpm) flow range
- Reach of approx. 265 ft. at 1000 gpm

2198/5098
- Fixed orifice baffle/Constant pressure balanced baffle (automatic)
- Inlet 3-1/2” NH
- Brass construction
- Pattern straight stream to 135° wide fog
- Operating pressure maximum 150 psi (10.5 bar)
- Weight 61 lbs.
- Vapor Mitigation nozzle designed for wide fog application therefore effective reach is slightly reduced.
- 500-2000 gpm (1900-7600 lpm) flow range
- Reach of approx. 230/280 ft. at 2000 gpm

2199/5099
- Fixed orifice baffle/Constant pressure balanced baffle (automatic)
- Inlet 3-1/2” NH
- Brass construction
- Pattern straight stream to 90° wide fog
- Operating pressure maximum 150 psi (10.5 bar)
- Weight 61 lbs.
- 500-2000 gpm (1900-7600 lpm) flow range
- Reach of approx. 340/300 ft. at 2000 gpm

OPERATOR PANELS
- Master operator panels designed to control multiple monitors. Custom engineered to meet the customers operator requirements with respect to size, features and functionality. Available for Hazardous Area locations.
- Local operator panel custom engineered to meet the customers control requirements with respect to size, features and functionality. Available for Hazardous Area locations.
- Wireless handheld controls
MOTOR CONTROL UNIT:
- Custom three axis AC Motor Drive
- Forward and reverse operation for each motor
- Motors with current limiting protection and dynamic braking
- Manual overrides
- Master and Slave control inputs
- Two internal relays for operation of up to two valves, with max. switching voltage of 300VAC 5amps
- Operating temperature range of +140° to -40°F (Zone 2)
- FM approved- ClassI, Div.2, Groups C, D
- CE, ATEX Zone 1, II 2 G Ex d IIB T6 Gb, II 2 D Ex tb IIIB T85° C Db (-20° C to +60° C)
- CE, ATEX Zone 2, II 3 G Ex nAnC IIC T6 Gc (-40° C < Ta < 60° C)
- Enclosures NEMA 4X, IP65 (Zone 2) standard enclosure 304SS or optional 316SS,
  Optional EX flameproof enclosure (Zone 1)
- Input voltage 120-600VAC 50/60Hz 500w
- Optional wireless receiver for wireless remote control with hand held transmitter. (Belly Pack)
- Optional Ethernet I/O Module provides an ethernet network interface for remote operation
  (ATEX) II 3 G Ex nAnC IIC T4 Gc (-20° C < Ta < 50° C)
- Optional Fiber Optic Media Converter for remote operation via fiber optics
  (ATEX) II 3 (2) G Ex nAnC [op pr Gb] IIC T4 Gc (-20° C < Ta < 50° C)
- Optional Pushbutton Operators in door for monitor operation (ATEX)
- All systems functionally tested during final factory inspection