

# GAS MASTRRR SERIES 32XP SUBMERSIBLE MIXING SYSTEMS



## SERIES 32XP EXPLOSION PROOF SUBMERSIBLE MIXER

The **GAS MASTRRR** series 32XP explosion proof submersible mixers are designed for flash mixing of chlorine solution or sodium hypochlorite into SSO & CSO basins for storm water or wastewater overflow high rate disinfection. The non-vacuum design allows liquid chemicals to be flash mixed directly into in small or large channels and basins.

The series 32XP is available in ranges from 3 - 25 Hp for through feed rates up to 70 GPM liquid chemical per unit. External feed pipe assemblies up to 2" allow for chemical feed rates in excess of 70 GPM.

The 32XP utilizes a Hasteloy-C propeller which provides a high GPM axial chemical dispersion for superior velocity gradient mixing.

The 32XP is supplied standard with a 316 stainless steel flange/housing and feed port. Optional Titanium housing available.

Stainless steel guide rails and lifting crane/hoists are available for easy retrieval of the unit for maintenance inspection.

The **GAS MASTRRR** series 32XP utilizes a rugged and reliable U.S.A. manufactured submersible explosion proof motor with an epoxy coated cast iron construction for long-term duty in harsh environments. The motors are air filled and cooled for 230 or 460 VAC three phase service. Standard motor features include high temperature and seal failure moisture detection sensors. The motors explosion proof rating is (FM Listing) Class 1, Groups C&D for hazardous locations.

### Performance Specifications

| Model No.        | HP  | Motor Data  |              | Maximum Liquid Induction GPM | Propeller Diameter O.D. (in.) | Propeller Discharge |          |
|------------------|-----|-------------|--------------|------------------------------|-------------------------------|---------------------|----------|
|                  |     | Length(in.) | Weight(lbs.) |                              |                               | GPM                 | Velocity |
| Series 32XP-3    | 3   | 29          | 141          | 20                           | 4.75                          | 1,050               | 18.6     |
| Series 32XP-5    | 5   | 29          | 142          | 25*                          | 5.0                           | 1,150               | 19.2     |
| Series 32XP-7.5  | 7.5 | 32          | 325          | 30*                          | 5.5                           | 1,565               | 21       |
| Series 32XP-10   | 10  | 32          | 325          | 40*                          | 5.75                          | 1,775               | 21.5     |
| Series 32XP-15   | 15  | 35.5        | 370          | 50*                          | 6.0                           | 1,985               | 22       |
| Series 32XP-20   | 20  | 35.5        | 370          | 60*                          | 6.25                          | 2,275               | 23       |
| Series 32XP-25** | 25  | 41.5        | 475          | 70*                          | 6.5                           | 2,565               | 24       |

\*\*Consult Factory. 25 HP used for extreme applications where additional mixing intensity is required in large width or high flow rate channels.

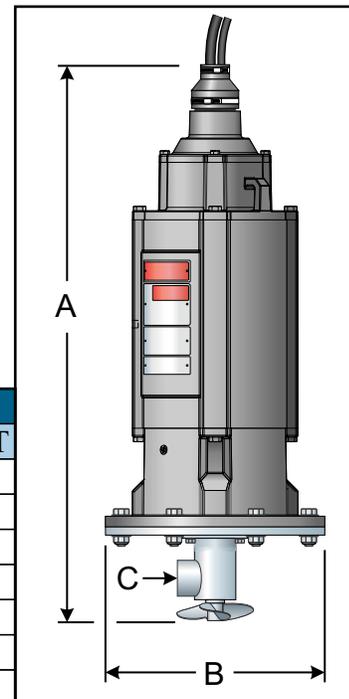
\* Maximum feed rate may vary dependent on chemical feed equipment manufacturers meter pump capacities, supply piping size, length, and chemical viscosity. A larger HP CIU may be required to meet mixing (G-value) requirements. HP range is selected by chemical feed rate, channel cross sectional area, peak flow rate, and (G-value) mixing requirement.

The **GAS MASTRRR** series 32XP is proudly made in the U.S.A. and is backed by a 1 year limited warranty. **THE MASTRRR COMPANY** offers an exclusive exchange program for competitive CIU mixers.



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## SERIES 32XP EXPLOSION PROOF SUBMERSIBLE MIXER SPECIFICATIONS



### MATERIALS OF CONSTRUCTION

| PART           | MATERIAL                                  |
|----------------|---|
| Power Cable    | SOOW Submersible 30'                      |
| Motor          | Epoxy Coated Cast Iron                    |
| Shaft          | 316 S.S. isolated in Hasteloy-C shaft hub |
| Housing Flange | 316 Stainless Steel or Titanium           |
| Housing/Cone   | 316 Stainless Steel or Titanium           |
| Mixing Element | Hasteloy-C                                |
| Feed Port      | 316 Stainless Steel or Titanium           |
| Hardware       | 316 Stainless Steel                       |

### DIMENSIONS (inches)

| HP  | A    | B    | C   | WEIGHT   |
|-----|------|------|-----|----------|
| 3   | 30.5 | 12.4 | 1.5 | 210 lbs. |
| 5   | 30.5 | 12.4 | 1.5 | 210 lbs. |
| 7.5 | 30.5 | 12.4 | 1.5 | 210 lbs. |
| 10  | 36.5 | 15.2 | 1.5 | 345 lbs. |
| 15  | 36.5 | 15.2 | 2.0 | 345 lbs. |
| 20  | 36.5 | 15.2 | 2.0 | 345 lbs. |
| 25  | 41.5 | 17.0 | 2.0 | 475 lbs. |

### MOTOR SPECIFICATION DATA

| HP  | Volts | Phase | Hz. | RPM  | Insulation | S.F. | Full Load Amps | Locked Rotor Amps | Frame Size |
|-----|-------|-------|-----|------|------------|------|----------------|-------------------|------------|
| 3   | 460   | 3     | 60  | 1750 | Class F    | 1.15 | 4.4            | 31.1              | 180TY      |
| 5   | 460   | 3     | 60  | 1725 | Class F    | 1.15 | 8.0            | 46.0              | 180TY      |
| 7.5 | 460   | 3     | 60  | 1730 | Class F    | 1.15 | 10.1           | 62.5              | 180TY      |
| 10  | 460   | 3     | 60  | 1755 | Class F    | 1.15 | 13.0           | 76.0              | 210TY      |
| 15  | 460   | 3     | 60  | 1745 | Class F    | 1.15 | 20.1           | 114               | 210TY      |
| 20  | 460   | 3     | 60  | 1740 | Class F    | 1.15 | 26.2           | 141               | 210TY      |
| 25  | 460   | 3     | 60  | 1760 | Class F    | 1.15 | 32.1           | 175               | 250TY      |

| HP  | Nominal Power Factor % |      |      | Typical Efficiency % |      |      | KVA Code | Breaker or Fuse Amps |       | Cable Gauge |            |
|-----|------------------------|------|------|----------------------|------|------|----------|----------------------|-------|-------------|------------|
|     | F.L.                   | 3/4  | 1/2  | F.L.                 | 3/4  | 1/2  |          | Standard             | Delay | Power       | Control    |
| 3   | 81.7                   | 77.2 | 68.7 | 78.1                 | 75.9 | 70.5 | J        | 15                   | 6     | 4 wire 12g  | 4 wire 18g |
| 5   | 83.9                   | 79.9 | 71.9 | 80.2                 | 79.9 | 77.0 | H        | 25                   | 10    | 4 wire 12g  | 4 wire 14g |
| 7.5 | 83.9                   | 80.1 | 72.1 | 82.7                 | 82.9 | 80.7 | H        | 35                   | 15    | 4 wire 10g  | 4 wire 14g |
| 10  | 84.1                   | 80.6 | 72.8 | 85.6                 | 85.3 | 83.0 | G        | 40                   | 20    | 4 wire 10g  | 4 wire 14g |
| 15  | 82.0                   | 77.9 | 69.2 | 85.4                 | 85.4 | 83.3 | G        | 70                   | 30    | 4 wire 8g   | 4 wire 14g |
| 20  | 82.7                   | 78.6 | 69.7 | 86.6                 | 87.2 | 86.1 | G        | 80                   | 35    | 4 wire 4g   | 4 wire 14g |
| 25  | 82.5                   | 79.3 | 71.3 | 88.5                 | 88.7 | 87.2 | F        | 100                  | 45    | 4 wire 4g   | 4 wire 14g |

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