

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.

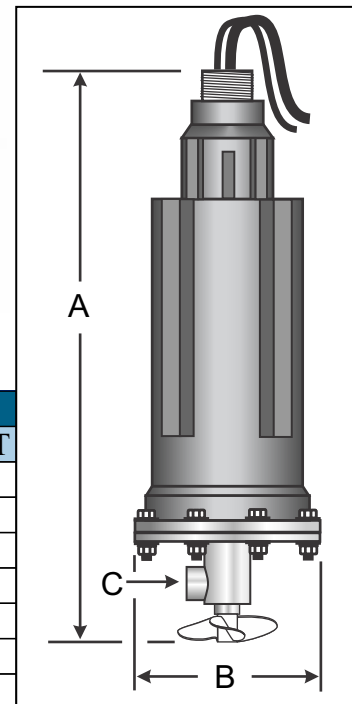
*Maximum feed rate may vary dependent on chemical feed equipment manufacturers meter pump capacities, supply piping size, length, and chemical viscosity. A larger HP CIU may be required to meet mixing (G-value) requirements. HP range is selected by chemical feed rate, channel cross sectional area, peak 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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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	3492	Class F	1.15	5.4	31.7	140TY
5	460	3	60	3483	Class F	1.15	6.8	41.8	180TY
7.5	460	3	60	3519	Class F	1.15	9.8	68.2	180TY
10	460	3	60	3499	Class F	1.15	13.9	78.5	210TY
15	460	3	60	3515	Class F	1.15	18.0	109	210TY
20	460	3	60	3489	Class F	1.15	23.6	131	210TY
25	460	3	60	3515	Class F	1.15	30.6	182	250T

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	90.1	86.5	80.7	57.7	52.7	44.3	K	15	6	4 wire 12g	4 wire 18g
5	91.1	90.1	87.2	73.3	72.2	68.0	H	25	10	4 wire 12g	4 wire 14g
7.5	95.6	92.8	87.8	75.1	74.5	70.9	J	30	15	4 wire 10g	4 wire 14g
10	91.2	89.6	85.7	73.7	70.9	64.6	G	35	20	4 wire 10g	4 wire 14g
15	90.3	88.4	83.5	86.5	86.4	84.4	G	40	25	4 wire 8g	4 wire 14g
20	91.9	90.8	87.3	86.4	87.2	86.4	F	70	30	4 wire 4g	4 wire 14g
25	88.1	86.6	81.9	86.9	86.2	83.6	G	100	45	4 wire 4g	4 wire 14g

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