

# 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 2 - 25 Hp for feed rates up to 70 GPM liquid chemical per unit.

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 (UHMW Polyethylene) housing. 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 230/460 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 (f/s)
Series 32XP-2	2	29	140	10	4	725	18.5
Series 32XP-3	3	29	141	20	4.75	1,050	18.6
Series 32XP-5	5	29	142	25*	5	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*	6	1,985	22
Series 32XP-15	15	35.5	370	50*	6.5	2,565	24
Series 32XP-20	20	35.5	370	60*	7	3,150	26
Series 32XP-25	25	**	**	70*	7.5	3,925	28

\*\*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. Contact us for our exchange policy details.



THE MASTRRR COMPANY

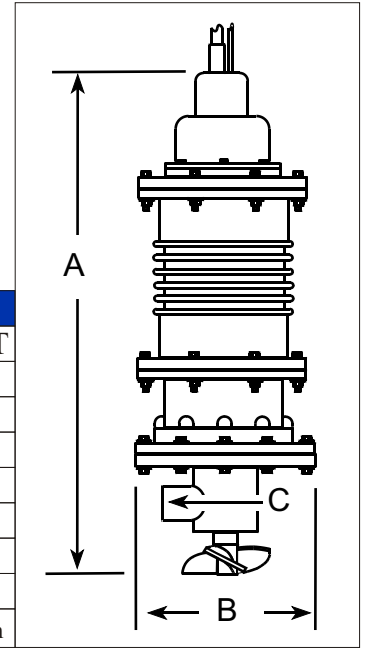
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# GAS MASTRRR SERIES 32XP SUBMERSIBLE CIU SPECIFICATIONS

## SERIES 32XP EXPLOSION PROOF SUBMERSIBLE MIXER SPECIFICATIONS



TITANIUM HOUSING SHOWN



MATERIALS OF CONSTRUCTION	
PART	MATERIAL
Power Cable	SEOW-A Submersible 30'
Motor	Epoxy Coated Cast Iron
Shaft	Hasteloy-C
Housing Flange	316 Stainless steel
Housing/Cone	UHMW Polyethylene or Titanium
Mixing Element	Hasteloy-C
Feed Port	UHMW Polyethylene or Titanium
Hardware	316 Stainless steel

DIMENSIONS (inches)					
HP	A	B	C	WEIGHT	
2	27.5	11.1	1.0	140 lbs.	
3	27.5	11.1	1.5	140 lbs.	
5	27.5	11.1	1.5	140 lbs.	
7.5	32.5	12.5	1.5	320 lbs.	
10	32.5	12.5	1.5	320 lbs.	
15	32.5	12.5	2.0	320 lbs.	
20	35.5	15.0	2.0	370 lbs.	
25	Consult factory for information				

HP	Volts	Phase	Hz.	RPM	Insulation	S.F.	Full Load Amps	Locked Rotor Amps	Frame Size
2	230/460	3	60	3490	Class F	1.15	5.6(230) 2.8(460)	21.9 @ (460)	YC140
3	230/460	3	60	3492	Class F	1.15	8.0(230) 4.0(460)	31.6 @ (460)	YC140
5	230/460	3	60	3483	Class F	1.15	12.4(230) 6.2(460)	45.8 @ (460)	YC140
7.5	230/460	3	60	3519	Class F	1.15	17.8(230) 8.9(460)	63.4 @ (460)	YC180
10	230/460	3	60	3499	Class F	1.15	23.6(230) 11.8(460)	75.1 @ (460)	YC180
15	230/460	3	60	3515	Class F	1.15	35.4(230) 17.7(460)	111.5 @ (460)	YC180
20	230/460	3	60	3489	Class F	1.15	48.4(230) 24.2(460)	132.9 @ (460)	YC210

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
2	85.0	80.0	71.0	77.1	73.7	67.0	K	15@(230) 8@(460)	7@(230) 4@(460)	4 wire 12g	4 wire 18g
3	87.0	83.0	74.0	81.3	78.8	73.2	K	20@(230) 15@(460)	10@(230) 5@(460)	4 wire 12g	4 wire 18g
5	90.0	86.0	78.0	84.3	82.9	78.9	J	35@(230) 20@(460)	15@(230) 8@(460)	4 wire 12g	4 wire 14g
7.5	88.1	85.6	78.7	89.7	90.7	90.3	H	45@(230) 25@(460)	20@(230) 10@(460)	4 wire 10g	4 wire 14g
10	89.3	87.9	82.9	88.7	90.6	91.0	G	70@(230) 30@(460)	30@(230) 12@(460)	4 wire 10g	4 wire 14g
15	87.1	85.0	78.7	91.2	92.1	91.7	G	100@(230) 45@(460)	40@(230) 20@(460)	4 wire 8g	4 wire 14g
20	86.4	84.4	77.8	89.6	91.4	88.7	F	125@(230) 70@(460)	60@(230) 30@(460)	4 wire 4g	4 wire 14g
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