

GAS MASTRRR SERIES 32PT SUBMERSIBLE MIXING SYSTEMS



32PT 3-25 HP

32PT 2 HP

SERIES 32PT SUBMERSIBLE MIXER

The GAS MASTRRR series 32PT submersible design allows liquid chemicals to be non-vacuum flash mixed directly into the water stream, channel, chamber, or rapid mix box with superior velocity gradient mixing intensity. The units are available with an optional Titanium external feed style for high scaling or aggressive chemicals. Units may be installed in an upstream or down stream orientation depending on the chemical and application. They easily install with new or retrofit with existing chemical feed equipment. Stainless steel guide rails and lifting crane/hoists are available for easy retrieval of the unit for maintenance inspection.

The GAS MASTRRR series 32PT utilizes a rugged and reliable U.S.A. manufactured submersible motor of 316 stainless steel construction and a Titanium lower housing for long-term duty submerged environments. The Hasteloy-C propeller is designed for high rate axial dispersion of chemicals into the water stream.

The series 32PT units are available in ranges from 2-25 hp for feed rates up to 70 GPM liquid chemical.

The GAS MASTRRR series 32PT utilizes a rugged and reliable U.S.A. manufactured submersible motor of 316 stainless steel construction for long-term duty in harsh submerged environments. The motors are liquid filled, water cooled, and are available for three phase service with a variety of VAC voltage options.

The optional external feed system allows for heavy scaling or aggressive chemical to be dispersed away from the unit reducing maintenance and the potential for chemical attack of the motor or guide rail system. The direct through feed system allows the chemical to be induced upstream of the propeller and provides a high rate axial dispersion of the chemical mixture into the water stream. Dual feed options available for both internal and external feed applications.

Performance Specifications

Model No.	HP	Maximum Liquid Induction GPM	Propeller Diameter O.D. (in.)	Propeller Discharge	
				GPM	Velocity (f/s)
Series 32PT-2	2	10	4	725	18.5
Series 32PT-3	3	20	4.75	1,050	18.6
Series 32PT-5	5	25*	5	1,150	19.2
Series 32PT-7.5	7.5	30*	5.5	1,565	21
Series 32PT-10	10	40*	5.75	1,775	21.5
Series 32PT-15	15	50*	6	1,985	22
Series 32PT-20	20	60*	6.25	2,275	23
Series 32PT-25	25	70*	6.5	2,565	24

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 series 32PT 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 older series 32 & 32PT units and competitive CIU mixers. Contact us for our exchange details.

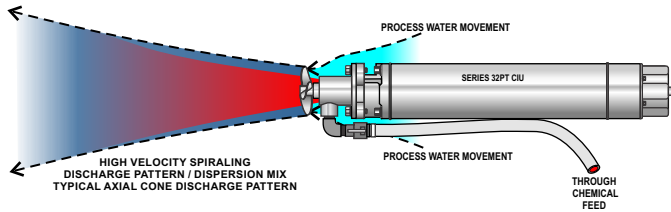


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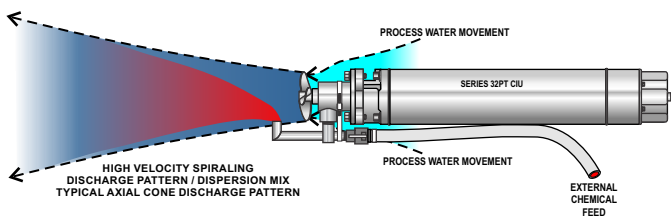
THROUGH CHEMICAL FEED



The direct through feed system allows the chemical to be induced upstream of the propeller and provides a high rate axial dispersion of the chemical mixture into the water stream.



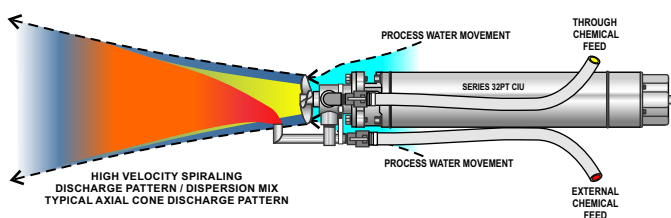
EXTERNAL CHEMICAL FEED



Optional external feed system allows for heavy scaling or aggressive chemicals to be dispersed away from the unit, reducing maintenance and the potential for scale buildup or chemical attack of the motor and or guide rail system.

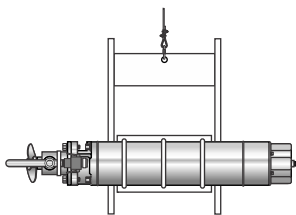


DUAL THROUGH/EXTERNAL CHEMICAL FEED

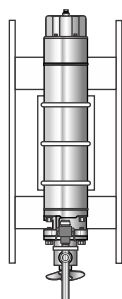


Dual feed options available for both through feed and external feed applications.

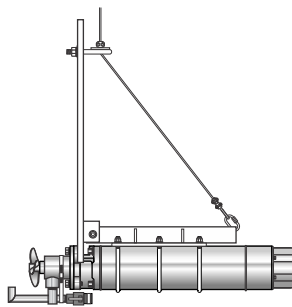
HORIZONTAL



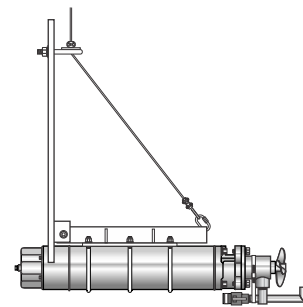
VERTICAL



PIVOTING FORWARD



PIVOTING REVERSED



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GAS MASTRRR SERIES 32PT SUBMERSIBLE MIXING SYSTEMS

SERIES 32PT OPTIONS - OR-1 EXTERNAL CIU MOTOR OIL RESERVOIR

The Series 32PT CIU's require periodic inspection of the oil level for maintenance. In many applications the CIU is not easily accessible or requires a chemical feed shutdown. The optional OR-1 external reservoir allows for oil addition and inspection without the need of CIU access or shut down.

The OR-1 mounts external on a hand rail or wall near the CIU installation or SAVVY control panel. The CIU motor is ported to the external oil reservoir via a 1/4" 316 stainless steel braided hydraulic hose. Standard hose length is 25' with longer lengths optional.

The OR-1 has a 10 VA float switch that closes on descending level. The float switch may be wired in series with the SAVVY control panel for visual Low Oil alarm, remote indication or CIU shut down if required.

The OR-1 easily mounts on a hand rail or wall near the CIU for ease of access in new or retrofit for existing series 32PT installations.



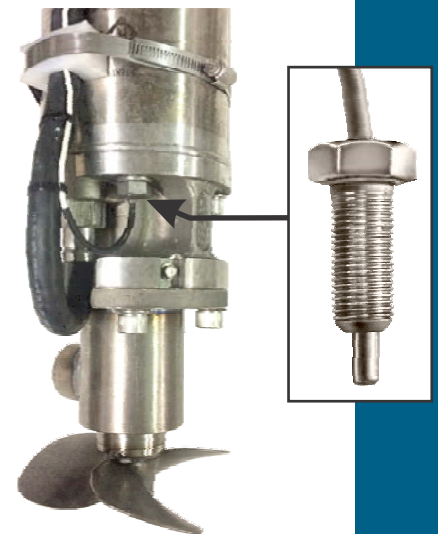
SERIES 32PT OPTIONS - PT-100/SOLO CIU MOTOR TEMPERATURE SENSOR

The Series 32PT can be supplied with an optional PT-100 temperature sensor & SOLO controller for maximum submersible motor high temperature protection.

The PT-100 is a precision platinum RTD that is mounted on the lower end bell of the submersible motor and provides direct readout of motor temperature.

A (3 wire) Teflon jacketed control lead is run from the submerged motor to the SOLO temperature controller located in the SAVVY panel enclosure or MCC. The SOLO is a high performance micro-processor based smart temperature indicator/controller with relay output for alarm indication and control. The SOLO has selectable °F/°C temperature readout on the bright 4 digit LED display. Alarm relay has LED indication and programmable High Temperature and Reset Temperature set points.

The PT-100 is not approved as motor overload protection. Motor warranty will be void if Factory approved MCP or fused disconnect switch, motor overload protection and SYMCOM motor monitoring devices are not installed as required by THE MASTRRR COMPANY.



PT-100 SPECIFICATIONS:

Wire Size: #20 AW (3 wire)
Lead Insulation: Teflon jacket
Lead Length: 30' feet
Temperature Range:
-70° to 400°F (-56.6° to 204.4°C)
Output: 0-100 ohm Platinum



SOLO SPECIFICATIONS:

Power: 120 VAC
Input: #20 AW (3 wire) PT-100
Accuracy: 0.2% of span ± 1 digit
Operating Environment:
32° to 122°F (0° to 50°C)
Output Relay: 1 - SPST 3A@250VAC



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