

Pearl[®]

MSC DELUXE

Horizontal Multistage Pumps

This new version of the MSC horizontal multistage pump is designed for water treatment applications. The components are developed to resist the extreme working conditions associated with the system's pumping of liquid containing sulfur. The MSC DELUXE is sized to work in boosting operations because its components resist pressure above standard pumps.

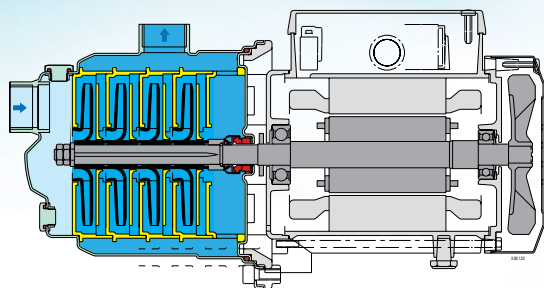
An exclusive diffuser designed with a flow control device provides compact construction, fast self-priming, and low noise.

Built with reliable new design features, the MSC DELUXE is more robust and forgiving in situations where temporary abnormal operating conditions may exist.

Fast air evacuation reduces the risk of air pockets developing in the mechanical seal, eliminating the danger of seal failure due to a lack of flushing and cooling.

The MSC DELUXE is capable of lifting water from depths of 22ft. in less than 3 minutes, offers new possibilities on suction lift applications, and provides better, trouble-free service on normal shallow-well suction lift duties, thanks to a long suction pipe that resides above the water level.

The new diffuser and flow control device guides the fluid from the impeller into the central part of the pump casing, reducing turbulence and velocity, while effectively using the surrounding liquid to dampen the noise of flow.



Features

A suction port located above pump axis provides extra safety against running dry.

Robust, single-piece barrel casing.

Compact, single-piece lantern bracket and base.

Water-filled shroud located around the stages ensures low noise during operation.

Applications

- Pumping water out from Reverse Osmosis (RO) water.
- For water supply.
- For domestic use, garden use, and irrigation.
- Pumping in environments where water contains a percentage of sulfur.



Operating Conditions

- Liquid temperature: 32 °F to 95 °F.
- Ambient temperature up to 104 °F.
- Maximum permissible pressure in the pump casing: 116 psi.
- Continuous duty.

Construction

- Horizontal, multistage close coupled pump.
- Single-piece barrel casing in chrome-nickel Stainless Steel, with front suction port located above the pump's axis, and radial delivery at the top.
- Stages in Noryl.
- Connections: Threaded ports NPT.

Motor

- 2-pole induction motor, 60 Hz ($n \approx 3450$ rpm).
- Three-phase 230/460 V.
- Single-phase 115/230 V, 115 V, 230 V.
- Capacitor inside the terminal box.
- Insulation class F.
- Protection IP 44.

Special Features Available Upon Request

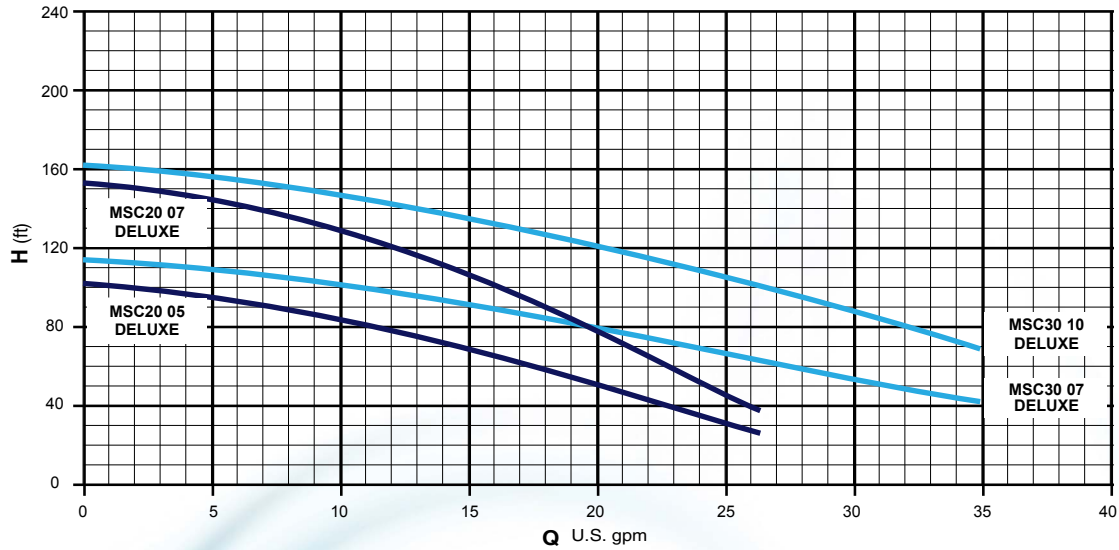
Other voltages

Materials

COMPONENT	MATERIAL
Pump Casing	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Casing Cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Pump Shaft	Stainless Steel (AISI 316)
Plug	Cr-Ni steel 1.4305 EN 10088 (AISI 303)
Stage Casing	PPO-GF20 (Noryl)
Impeller	PPO-GF20 (Noryl)
Mechanical Seal	Carbon - Ceramic - EPDM

Horizontal Multistage Pumps

Performance Curves | n= 3450 rpm



Nominal Currents

MODEL	P2 HP	3 ~		1 ~			
		230 / 460V In A	I _A / In	115V In A	230V In A	115 / 230V In A	I _A / In
MSC20 05 DELUXE	0.5	2.6/1.6	5.4	8.4	4.2		2.6
MSC20 07 DELUXE	0.75	2.6/1.6	3.7	10.8	5.4	8.6/4.5	3.1
MSC30 07 DELUXE	0.75	2.6/1.6	3.7	10.8	5.4	13.6/7	3.1
MSC30 10 DELUXE	1	5.4/3.1	5.5	13.8	7.2		3.5

P2 Rated motor power output | I_A / In D.O.L. starting current / Rated current.

Weights and Dimensions

MODEL	DIMENSIONS INCHES			NET WEIGHT LBS	
	fM	H	w1	3 ~	1 ~
MSC20 05 DELUXE	14.25	6.93	4.02	15.9	15.9
MSC20 07 DELUXE	15.39	7.56	4.41	19.6	21.6
MSC30 07 DELUXE	15.39	7.56	4.41	19.3	21.3
MSC30 10 DELUXE	15.39	7.56	4.41	24.2	

