

Pearl

JSC

Self Priming Jet Pumps

Features

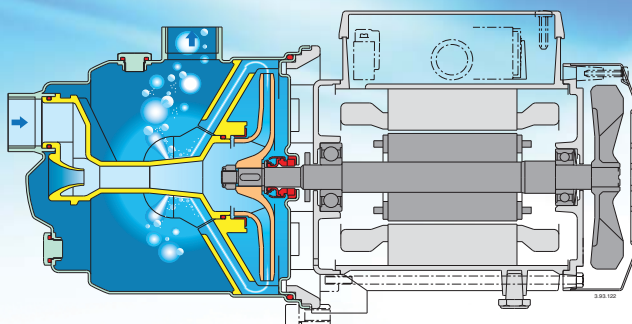
An exclusive diffuser design with flow control device provides for compact construction, fast self-priming capability and low noise.

Reliable with new design features, the JSC is more robust and forgiving when temporary abnormal operating conditions may exist.

The JSC is smaller than conventional pumps of a similar type, allowing for installation in restricted spaces and providing for easier retrofit applications.

Fast air evacuation reduces the risk of air-pockets developing at the mechanical seal preventing the danger of seal failure due to a lack of flushing and cooling.

The new diffuser and flow control device guide the fluid from the impeller into the central part of the pump casing, reducing turbulence and velocity, with effective use of the surrounding liquid in dampening the noise of flow.



Applications

- For lifting water out of a well.
- For lifting water containing air or other gases.
- For increasing water pressure from flooded suction applications.
- As pressure boosting pump for water systems with low pressure (follow local specifications if increasing network pressure).
- For garden use.
- For clean liquids or slightly dirty surface water.
- For washing with a jet of water.

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

- Close-coupled self-priming shallow-well jet pump with built-in ejector.
- A high-quality pump for domestic water supply. Designed with environmental considerations, featuring a stainless steel casing, brass alloy impeller with minimal use of plastic materials.
- 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.

Assembled with:

- Pressure switch.
- Pressure gauge.

Special Features on 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)
Impeller	Brass CW510L (lead free public LAW 111-380)
Wear Ring Impeller-Diffuser	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Diffuser	PPO-GF20 (Noryl)
Ejector	PPO-GF20 (Noryl)
Shaft	Chrome Steel 1.4104 EN 10088 (AISI 304) Cr-Ni steel 1.4305 EN 10088 (AISI 303) for JSC(H) 15
Mechanical Seal	Carbon - Ceramic - NBR

Above Ground Pearl Pumps

Technical Data | n= 3450 rpm

MODEL	HP	Total Suction Lift Hs ft	Pump Capacity US gpm - Discharge Pressure in PSI					Max. Shut - OFF PSI	
			20	30	40	50	60		70
JSC 05	0.5	5		12.3	9.0	5.5	2.4	73	
		10		11.9	8.5	5.0	2.0	71	
		15		11.1	7.6	4.2	1.4	69	
		20		10.5	7.0	3.6	1.0	66	
		25		9.6	6.1	2.9	0.6	64	
JSC 07	0.75	5	21.3	14.7	8.7	3.3		58	
		10	20.4	13.9	8.0	2.7		56	
		15	18.7	12.3	6.6	1.4		54	
		20	17.5	11.3	5.6	0.6		51	
		25	15.8	9.7	4.2	-		49	
JSC 10	1	5		22.2	16.3	11.1	6.2	74	
		10		21.4	15.6	10.4	5.6	72	
		15		19.8	14.2	9.1	4.3	70	
		20		18.8	13.3	8.3	3.5	67	
		25		17.3	12	7	2.3	65	
JSCH 15	1.5	5			25.2	18.6	12.0	5.9	82
		10			24.4	17.8	11.2	5.1	80
		15			22.7	16.0	9.5	3.7	78
		20			21.5	14.9	8.5	2.8	75
		25			19.8	13.2	6.9	1.4	73
JSCQ 15	1.5	5		38.4	26.8	16.8	6.7	67	
		10		36.7	25.4	15.5	5.2	65	
		15		33.6	22.8	12.9	2.3	63	
		20		31.5	21.0	11.2	0.3	60	
		25		28.7	18.5	8.5	-	58	

P2 Rated motor power output. | Tolerance according to UNI EN ISO 9906:2012 | H D.O.L. starting current / Rated current.

■ Recommended operating range.

Nominal Currents

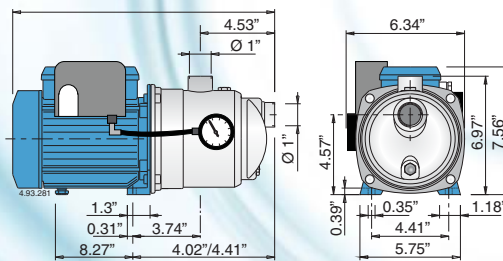
MODEL	P2 HP	3 ~		1 ~			
		230 / 460V In A	I _A / I _N	115V In A	230V In A	115 / 230V In A	I _A / I _N
JSC 05	0.5	2.6 / 1.6	3.7	10.8	5.4	8.8 / 4.5	3.1
JSC 07	0.75	3.8 / 2.3	6.8	12.4	6.2	10.5 / 5.4	3.5
JSC 10	1	5.4 / 3.1	5.5	13.8	7.2	13.6 / 7	3.5
JSCH 15	1.5	8.3 / 4.8	5.4		10.6		3.8
JSCQ 15	1.5	8.3 / 4.8	5.4		10.6		3.8

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

Weights and Dimensions

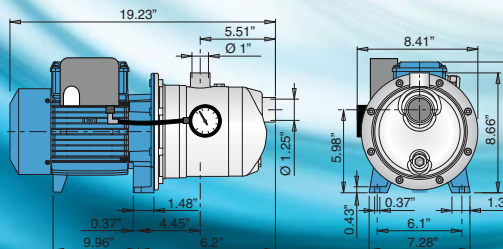
JSC 05, JSC 07, JSC 10

MODEL	NET WEIGHT	
	3 ~	1 ~
JSC 05	19.1	21.1
JSC 07	21.1	23.3
JSC 10	25.3	25.4



JSCH, JSCQ 15

MODEL	NET WEIGHT	
	3 ~	1 ~
JCCH 15	39.2	40
JCCQ 15	39.2	40



Installation

