Pearl®

JSCH/JSCQ

Self-Priming Jet Pumps

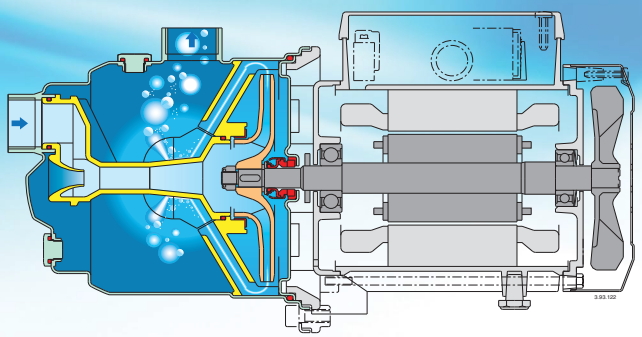
Features

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

Built with reliable new design features, the JSCH /JSCQ 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 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.



Construction

- Close-coupled self-priming shallow-well jet pump with built-in ejector.
- High quality pump for use with domestic water supplies.
- Designed with environmental factors in mind; features a Stainless Steel casing, brass allow impeller, and minimal use of plastic materials.
- Connections: Threaded ports NPT.

Motor

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

Assembled with:

- Pressure switch.
- Pressure gauge.

Special Features Available Upon Request

Other voltages

Applications

- Lifting water out of wells.
- Lifting water containing air or other gases.
- Increasing water pressure from flooded suction applications.
- As a 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: 140 psi.
- Continuous duty.

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 403) Cr-Ni steel 1.4305 EN 10088 (AISI 303) for JSC(H) 15
Mechanical Seal	Carbon - Ceramic - Viton

Self-Priming Jet Pumps

Technical Data | n= 3450 rpm

MODEL	HP	Total Suction Lift Hs ft	Discharge Pressure in PSI						Max. Shut - OFF PSI
			20	30	40	50	60	70	
			Pump Capacity US (GPM)						
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.

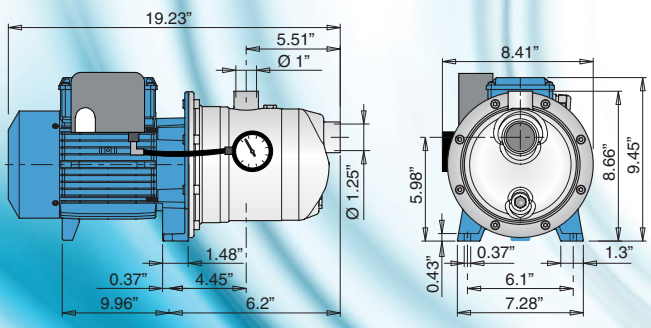
Nominal Currents

MODEL	P2 HP	3 ~		1 ~			
		230 / 460V IN A	IA / IN	115V IN A	230V IN A	115 / 230V IN A	IA / IN
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. | IA / IN D.O.L. starting current / Rated current.

Weights and Dimensions

MODEL	NET WEIGHT LBS	
	3 ~	1 ~
JSCH 15	39.2	40
JSCQ 15	39.2	40



Installation