



JCCH/JCCQ DELUXE

Self-Priming Jet Pumps for Special Applications Pumps

Features

This new version of the JCC is designed for water treatment applications. The components were developed to resist the extreme working conditions of systems pumping liquid with sulfur. The JCCH DELUXE / JCCQ DELUXE is sized to work in boosting operations because its components resist pressure above standard pump capacity.

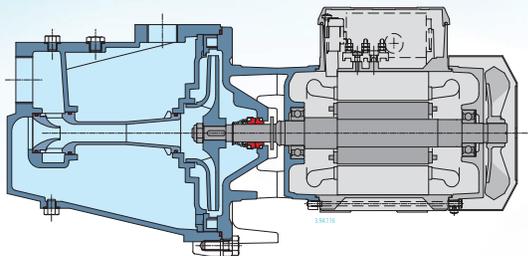
An exclusive diffuser design with a flow control device allows for compact construction, fast self-priming, and low noise.

Built with reliable new design features, the JCCH DELUXE / JCCQ 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 JCCH DELUXE / JCCQ DELUXE is capable of lifting water from depths of 22 ft. in less than 3 minutes, offers new possibilities for suction lift applications, and provides better, trouble-free service on normal shallow-well suction lift duties, using a long suction pipe 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.



Applications

- Boosting water from well pumps to reverse osmosis filtration systems.
- Pumping water with sulfur content.
- Lifting water out of a well that contains sulfur.
- Lifting water containing air or other gases.
- Increasing water pressure from flooded suction applications.
- A pressure boosting pump for water systems with low pressure (follow local specifications if increasing network pressure).

Operating Conditions

- Liquid temperature: 32 °F to 95 °F.
- Ambient temperature up to 104 °F.
- Suction lift up to 22 ft.
- Maximum permissible pressure in the pump casing: 140 psi
- Continuous duty.



Construction

- Close-coupled self-priming shallow-well jet pump with built-in ejector.
- Connections: threaded ports NPT.

Motor

- 2-pole induction motor, 60 Hz ($n \approx 3450$ 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.
- Liquid-filled pressure gauge in Stainless Steel.

Special Features Available Upon Request:

Other voltages.

Materials

COMPONENT	MATERIAL
Pump Casing	Cast iron GJL 200 EN 1561
Casing Cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Impeller	Brass P-Cu Zn 40 Pb 2 UNI 5705
Wear Ring Impeller-Diffuser	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Diffuser	PPO-GF20 (Noryl)
Ejector	PPO-GF20 (Noryl)
Shaft	Stainless Steel AISI 316
Mechanical Seal	Carbon - Ceramic - Viton

Self-Priming Jet Pumps for Special Applications

Technical Data | n= 3450 rpm

MODEL	HP	Total Suction Lift H _s ft	Discharge Pressure in PSI							Max. Shut - OFF PSI	
			20	30	40	50	60	70	80		90
JCCH 15 DELUXE	1.5	5			-	19.2	12.3	6.3			83
		10			26.2	18.3	11.5	5.6			81
		15			24.0	16.4	9.9	4.2			79
		20			22.6	15.2	8.9	3.3			76
		25			20.6	13.5	7.3	1.9			74
JCCQ 15 DELUXE	1.5	5	50.2	38.3	26.5	14.8					64
		10	48.7	36.8	25.0	13.3					62
		15	45.6	33.7	21.9	10.3					60
		20	43.5	31.6	19.9	8.3					57
		25	40.4	28.6	16.9	5.3					55
JCCH 20 DELUXE	2	5				22	20	16	12	8	111
		10				21	18	15	11	7.5	107
		15				21	18	13.5	10	6.5	105
		20				21	17	13	9	6	103
		25			20	20	16	12	8	4.5	101

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

█ Recommended operating range.

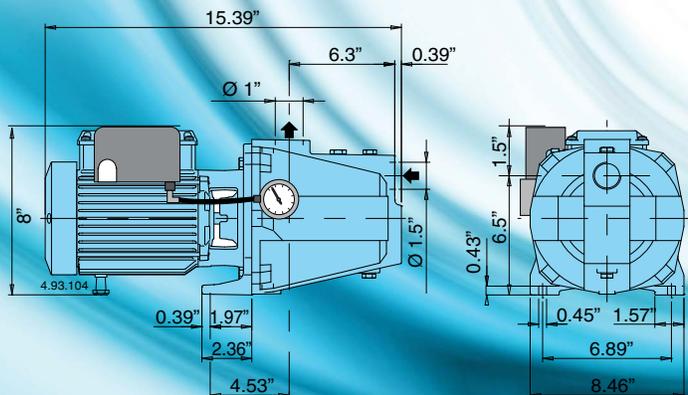
Nominal Currents

MODEL	P2 HP	3 ~		1 ~			
		230 / 460V In A	I _A / In	115V In A	230V In A	115 / 230V In A	I _A / In
JCCH 15 DELUXE	1.5	8.3 / 4.8	5.4		10.6		3.8
JCCQ 15 DELUXE	1.5	8.3 / 4.8	5.4		10.6		3.8
JCCH 20 DELUXE	2				13.5		

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

Weights and Dimensions

MODEL	NET WEIGHT LBS	
	3 ~	1 ~
JCCH 15 DELUXE	65	67.8
JCCQ 15 DELUXE	65	67.8
JCCH 20 DELUXE	69	74



Installation

