

Submersible drainage center-line pump XJC 80

Specification

Electric submersible pump.

Maximum submergence: 20 m (65 ft). Protection class IP 68. Max temperature of pumped medium at max power input and continuous duty 40 °C (104 °F).

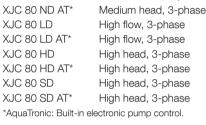
Max medium density 1100 kg/m3 (0.0397 lbs/inch3).

pH of the pumped medium 5-8.

Strainer hole: 7.5 x 22 mm (5/16" x 7/8").

Max number of starts 30/hour.

XJC 80 ND Medium head, 3-phase High flow, 3-phase High flow, 3-phase High head, 3-phase High head, 3-phase High head, 3-phase High head, 3-phase



Electric motor

3-phase squirrel-cage induction motor, 60 Hz.

Service factor 1.1. Class F insulation.

Dual voltage stator 230/460 V (single voltage contactor coil).***

Motor rating P2: 9.8 kW (13 Hp). 2 pol. Speed: 3520 rpm. η: 87.8 (50 %), 88.7 (75 %), 89 (100 % load)

^{***}For pumps with built in contactor.

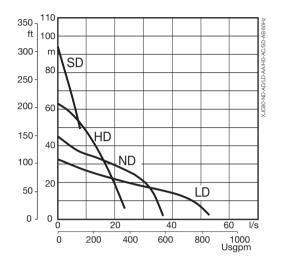
Voltage, V	230	380	460	575
Nominal current, A	31.4	19	15.7	12.6

Starting method and motor protection

XJC 80 AT: Soft start (230-460 V) is built in with the Aqua-Tronic unit, where three thyristors reduces start current to three times the nominal current. Here two relavs ensures correct motor rotation.

The AquaTronic unit monitors motor temperature, by use of NTC thermistors built into stator windings, and stops the motor at high temperature. It will also stop the motor at high amperage or if a phase is missing.

XJC 80: Direct on line start with built in contactor. Pumps to be used with VFD must have terminal block instead of contactor. Thermal switches (140 °C/284 °F, ±5) built into the stator windings are connected to the contactor and stops the pump at high temperature.





^{**} Max measurement based on largest discharge size.

Power Cable

20 m type H07RN8-F (standard cable):

4 x 4 sq.mm. (230 V)

4 x 2.5 sq.mm. (380-575 V)

20 m type NSSHÖU.../3E (heavy duty cable): 3x2.5+3x2.5/3E (380-575 V) 3x6+3x6/3E+3x1.5 (230 V)

Shaft Seal

Double mechanical seal in oil bath.

Primary seal: Silicon carbide on silicon carbide. Secondary seal: Silicon carbide on carbon.

Bearings

Upper bearing: Single-row deep groove ball bearing. Lower bearing: Double angular contact ball bearing.

Discharge connections

3" (standard HD/SD), 4" (standard ND), 6" (standard LD) hose connections.

3", 4", 6" G/B.S.P. threaded connections.

3", 4", 6" NPT threaded connections.

Weight

ND/LD/HD: 63 kg (139 lbs), SD: 78 kg (172 lbs) (without cable)

Options and accessories

AquaPlug. Level sensor. Service data kit. Zinc anodes. Surface protection coating. Series connection.

Discharge connection accessories and hose.

Pump control

Features	XJS 80	XJS 80 AT					
		AT	AT+ Level Sensor	AT + AquaPlug	AT + AquaPlug + Level Sensor	Service Data Kit Read out	
Run mode	•	•	•	•	•	-	
Integrated start equipment	•	•	•	•	•	-	
Automatic direction of rotation	-	•	•	•	•	-	
Motor protection high temp	•	•	•	•	•	•	
Motor protection high amp	-	•	•	•	•	•	
Protection against missing phase	-	•	•	•	•	•	
Level control	-	-	•	-	•	-	
Dry run protection	-	-	•	-	•	-	
Automatic restarting	-	-	•	-	•	-	
Stop mode	-	-	-	•	•	-	
E-mode (Automatic stop/run)	-	-	•	-	•	-	
Indication of water in oil	-	-	-	•	•	•	
Indication of low motor insulation	-	-	-	•	•	•	
Indication of high or low voltage	-	-	-	••	••	•	
Indication of high temperature	-	-	-	••	••	•	
Indication of high amp	-	-	-	••	••	•	
Indication of phase unbalance	-	-	-	••	••	•	
USB cable connection	-	•	•	•	•	•	
Crash log (10 latest)	-	-	-	-	-	•	
Documentation (spare part list, workshop manual)		-	-	-	-	•	

^{•• =} Fault indication when pump is automatically stopped to protect the motor.

TECHNICAL DATASHEET 2

Materials

Description	Material	EN	ASTM	
Castings	Aluminium	EN 1706:AC-43100	ASTM AlSi10mg	
Strainer / Jacket	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304	
Rotor shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420	
Impeller / Wear ring	White cast iron	EN-GJN-HV600(XCr23)	ASTM A 532: Alloy III A	
Fasteners	Stainless steel	10088:X5CrNiMo 17122 (1.4401)	AISI 316	
Wear parts / O-rings	Nitrile rubber			
Coating	2 component epoxy paint 120 µm			
Coating	2 component epoxy paint 120 µm		<u>.</u>	

sulzer.com

XJC 80 60Hz EN (10.2024), Copyright © Sulzer Ltd 2024

This document does not provide a warranty or guarantee of any kind. Please contact us for a description of the warranties and guarantees offered with our products. Directions for use and safety will be given separately. All information herein is subject to change without notice.

TECHNICAL DATASHEET 3