

Submersible drainage pump XJ 900

Specification

Electric submersible pump with double outer casing.
Maximum submergence: 80 m (262 ft). Protection class IP68.
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: 8 x 34 mm (5/16" x 1 5/16").
Max number of starts 15/hr.

XJ 900 ND High flow, 3-phase
XJ 900 HD High head, 3-phase

IE3 electric motor

3-phase squirrel-cage induction motor, 50 Hz.
Class F insulation.
Motor rating P2: 90 kW. 2 pol. Speed: 2970 rpm.
η: 96.2 (50 %), 96.0 (75 %), 95.6 (100 % load)

Voltage, V	400	500-550	690	1000
Nominal current, A	155	124	90	62

Motor protection

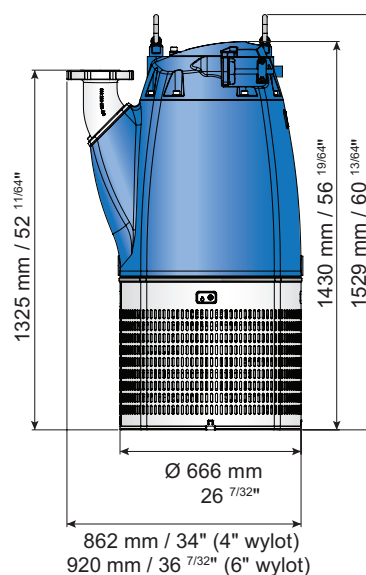
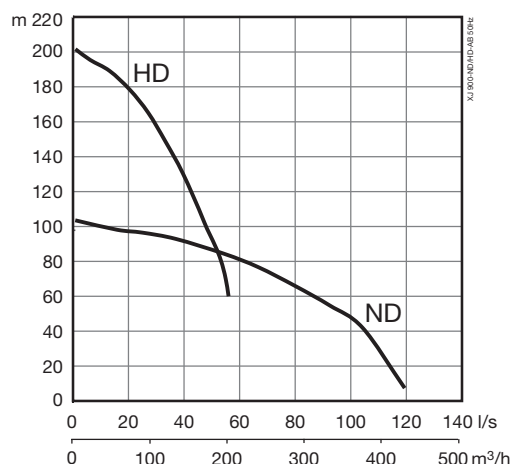
- Thermal control system with temperature sensors in the motor windings for automatic shut-down in case of overheating
- Seal monitoring system with leakage sensor in the junction box and motor chamber for automatic shut-down if water has entered into the pump
- Leakage sensor in the oil chamber that signals an inspection alert, indicating the presence of water in the oil
- Optional bearing monitoring system with temperature sensors at upper and lower bearing indicating excessive temperature

Power cable

Standard length 20 m (longer cable on request).
Type NSSHOEU: allowed lengths 20-100 m
3x50+3x25/E+3x2.5ST (400, 500-550, 690 V)
3X25+3X16/3E+3X2.5ST (400 V star-delta)
3x16+3x16/E+3x2.5ST (1000 V)
Control cable: type H07RN8-F 10G1.5 sq. mm or 12G1.5 sq. mm

Shaft seal

Double mechanical seal in oil bath.
Primary seal: Silicon carbide on silicon carbide.
Secondary seal: Silicon carbide on silicon carbide.



Bearings

Upper bearing: Single-row cylindrical roller bearing.
Lower bearing: Double-row angular contact ball bearing.

Discharge connections

- DN100 / 4" discharge:
Flanged connection PN40 DIN1092-1
Class 250 ASME B16.1 1998 (Standard HD)
- DN150 / 6" discharge:
Flanged connection PN40 DIN1092-1
Class 150 ASME B16.5 1998 (Standard ND)

Options and accessories

HD/ND conversion kit
Bearing temperature sensors
Repair kit
Hydraulic service kit

ISO9001 certified

Weight

1200 kg / 2600 lb. (without cable).

Material

Description	Material	EN	ASTM
Structural castings	Cast iron	EN-GJL-250	ASTM A48 - Class 35
Volute casings	Cast iron	EN-GJL-250	ASTM A48 - Class 35
Outer jacket / Discharge	Ductile iron	EN-GJS-400-18	ASTM A536 60-40-18
Strainer / Handle	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Rotor shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Impeller / Wear rings / Flow elbows	White cast iron	EN-GJN-HV600(XCr23)	ASTM A 532: Alloy III A
Fasteners	Stainless steel	10088:X5CrNiMo 17122 (1.4401)	AISI 316
Volute coating	Polyurethane*		
O-rings	Nitrile rubber		
Coating	2 component epoxy paint 120 µm		

*Nitrile rubber available on request

XJ 900 50 Hz EN 07.2026, Copyright © Sulzer Ltd 2026

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.