

## 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/m<sup>3</sup> (0.0397 lbs/inch<sup>3</sup>).  
 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

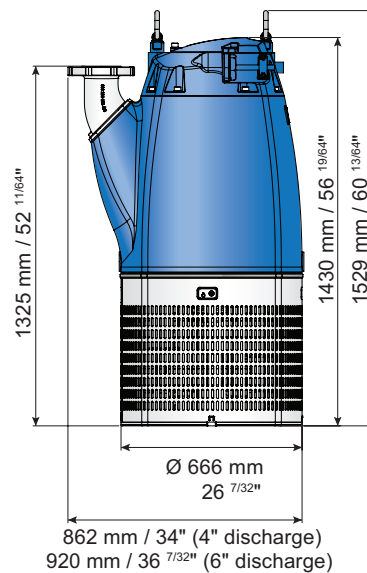
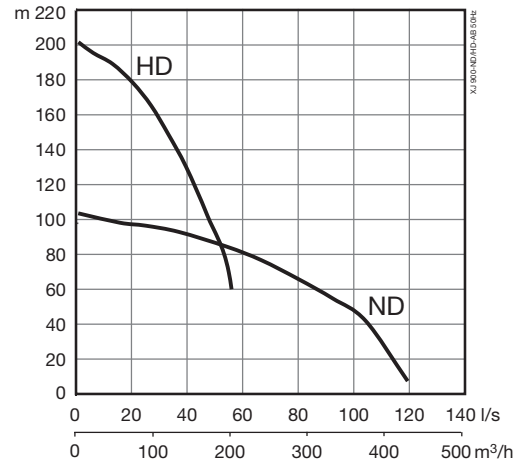
- Thermal control system with temperature sensors in the motor windings for automatic shut-down in case of overheating
- Seal monitoring system with leakage sensor in the junction box and motor chamber for automatic shut-down if water has entered into the pump
- Leakage sensor in the oil chamber that 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 / O-rings	Nitrile rubber		
Coating	2 component epoxy paint 120 µm		

---

[sulzer.com](http://sulzer.com)

---

XJ 900 50 Hz EN 09.2024, 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.