



Submersible Drainage Pump J

Submersible drainage pump J is suitable for pumping water and dirty water mixed with light abrasives. The pump design enables convenient transport, handling and installation.

1 Easy to start

Pump J 205 has a built-in contactor connected to the thermal sensors in the stator windings, which protects the motor from overheating and features an automatic restart function. Pumps J 405 and J 604 have thermal sensors in the stator windings that protect the motor from overheating by means of an external control panel.

2 Wear resistance

Abrasive-resistant impellers, combined with diffusers and wear rings coated in oil-resistant nitrile rubber, provide extended pump life in tough applications.

3 Reliable operation

Double mechanical shaft seals in an oil bath, with primary seal surfaces in silicon carbide, extend the life of the pump. In pumps J 205 and J 405, the primary and secondary seals comprise an easy-to-replace seal cartridge. A double outer casing and good heat convection enable the pump to operate continuously at low levels – or even run dry without damaging the motor.

4 Serviceability

External inspection ports for the oil and motor chambers enable quick and easy evaluation of the shaft seal during service. By removing the top cover of the pump, the electrical junction area can easily be hecked. The adjustable wear ring ensures proper clearance throughout the impeller lifetime.

5 Flexibility

Conversion between high-volume and high-head hydraulics is managed with only a few parts, ensuring the right performance for the application.





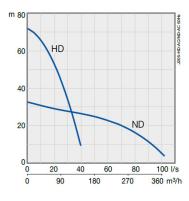


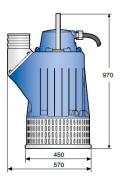




SUBMERSIBLE DRAINAGE PUMP J 205

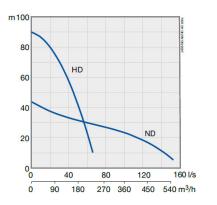
J 205 ND J 205 HD	MEDIUM HEAD HIGH HEAD
Motor rating P2	21 kW, 3~
Voltage (V)	230 / 400 / 500-550 / 690 / 1000
Full load (A)	68 / 39 / 31.2 / 23 / 16
Speed	2910 rpm
Strainer hole	8 x 34 mm
Discharge connections	Hose 4", 6", 8"
	Thread G/BSP 4", 6", 8"
Weight (excl. cable)	155 kg
Motor protection	Built-in
Electric cable	20 m

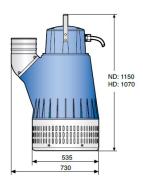




SUBMERSIBLE DRAINAGE PUMP J 405

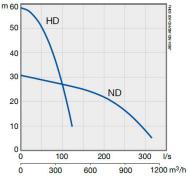
MEDIUM HEAD HIGH HEAD
35 kW, 3~
230 / 400 / 500-550 / 690 / 1000
108 / 62 / 51 / 36 / 25
2930 rpm
8 x 34 mm
Hose 4", 6", 8"
Thread G/BSP 4", 6", 8"
270 kg
Thermal overload sensors
20 m

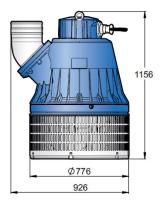




SUBMERSIBLE DRAINAGE PUMP J 604

J 604 ND J 604 HD	MEDIUM HEAD HIGH HEAD			
Motor rating P2	56 kW, 3~			
Voltage (V)	230 / 400 / 500-550 / 690 / 1000			
Full load (A)	184 / 106 / 84 / 61 / 42			
Speed	1450 rpm			
Strainer hole	12 x 60 mm			
Discharge connections	Hose 6", 8", 10"			
5	Thread G/BSP 6", 8"			
Weight (excl. cable)	525 kg			
Motor protection	Thermal overload sensors			
Electric cable	20 m			







1800 PUMP RENTAL nationalpump.com.au | sales@nationalpump.com.au





AquaTronic and Other Supervision Options

Submersible dewatering pumps XJ, XJC and XJS have several options for electronic supervision that make them even more reliable and easy to use. Most important is the AquaTronic unit, which ensures correct motor rotation every time.

AquaTronic

The AquaTronic unit replaces the built-in contactor in the basic pump configurations and ensures that the motor always rotates correctly, no matter how the phases are connected. Key benefits of the AquaTronic unit include:

- Correction of motor rotation if phases are improperly connected
- Run mode
- Integrated start equipment (direct or soft start depending on pump model)
- Motor protection against high temperature, high amperage and missing phase

If the pump is also equipped with an optional level sensor, AquaTronic provides:

- Precise level control
- Protection against dry running

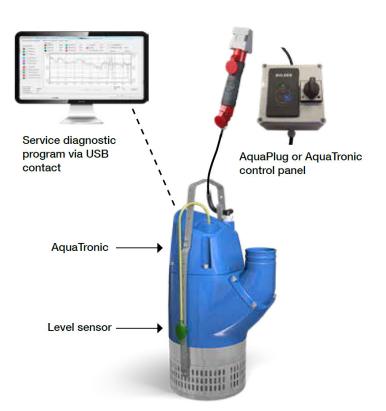
AquaTronic service diagnostic program

Connecting a PC to the AquaTronic unit via USB cable provides access to the service diagnostic program, which offers:

- Pump status data (temp, voltage, moisture, etc.)
- Pump operating history
- Pump failure history
- Pump service and maintenance history
- Digital manual and spare parts documentation

AquaPlug and AquaTronic control panel

AquaPlug and AquaTronic control panel are options that combine with AquaTronic to provide additional alarm and start/stop functions, as well as indications for important arameters. AquaPlug is incorporated into the power line via 16A or 32A sockets.











Overview of Electronic Supervision Features

The table below shows the range of features available when the AquaTronic unit and other electronic supervision options are used with the submersible dewatering pumps XJ, XJC and XJS.

Electronic supervision feature	Basic pump configuration with contactor	Pump with AquaTronic	Pump with AquaTronic + level sensor	Pump with AquaTronic + AquaPlug/ AquaTronic control panel	Pump with AquaTronic + AquaPlug/ AquaTronic control panel + level sensor
Run mode	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Integrated start equipment	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Automatic correction of rotation		V	×	×	\checkmark
Motor protection - high temp	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Motor protection – high amp		×	×	×	\checkmark
Protection against missing phase		\checkmark	\checkmark	\checkmark	\checkmark
Level control			√		<
Protection against dry running			\checkmark		\checkmark
Automatic restart			\checkmark		 Image: A second s
Stop mode				\checkmark	\checkmark
E-mode (automatic stop/run)					\checkmark
Indication of water in oil				\checkmark	\checkmark
Indication of low motor insulation				×	\checkmark
Indication of high/ low voltage				\checkmark	\checkmark
Indication of high temp				$\checkmark\checkmark$	\checkmark
Indication of high amp				\checkmark	\checkmark
Indication of phase imbalance				ŚŚ	$\checkmark\checkmark$
USB cable connection		\checkmark	\checkmark	\checkmark	\checkmark

Image: Second Second



1800 PUMP RENTAL nationalpump.com.au | sales@nationalpump.com.au







Overview of Electronic Supervision Features

AQUATRONIC UNIT FOR CORRECT MOTOR ROTATION

Our built-in AquaTronic unit integrates electronic intelligence into the pump, ensuring correct motor rotation by automatically adjusting for incorrect phase order. It also protects the motor by stopping the pump in the event of over-amperage, overheating, low or high voltage or missing phase. Another feature of the AquaTronic unit is the internal software that allows pump performance and service diagnostics data to be viewed on a PC via USB link, enabling accurate evaluation of service and maintenance needs. The workshop manual and spare parts list, readily available in the AquaTronic unit, can be viewed via the link as well. The AquaTronic unit must be ordered when ordering the pump. Retrofitting is not possible.

AQUAPLUG AND AQUATRONIC CONTROL PANEL

AquaPlug and AquaTronic control panel are options that combine with AquaTronic to provide additional alarm and start/stop functions, as well as indications for important parameters. AquaPlug is incorporated into the power line via 16A or 32A sockets.

LEVEL SENSOR FOR PRECISE AND COST EFFECTIVE WATER LEVEL CONTROL

Together with AquaTronic, the level sensor provides precise and cost-effective water level control, and helps lower power consumption.

SOFTDRIVE FOR COST EFFECTIVE OPERATION

Sulzer offers a built-in SoftDrive concept on the J 205 pumps. It reduces starting current dramatically and provides smooth operation for both the power net and pump equipment. The pump can be started with a smaller-sized generator compared to a standard pump started directly on-line.

QUICK AND EASY INSTALLATION WITH FLOATATION RING

Sulzer offers a solution for pumps up to 45 kg. The ring is easy to install and can be used with dewatering pumps J 12-15, XJ 25-40.

FLOATATION SYSTEM TO PREVENT UNNECESSARY WEAR

A modular flotation system is available, covering pumps from 59 to 600 kg. The modular floatation system is easy to build and used with dewatering pumps XJ 50-110, XJS 50-110, J 205-604.



NPE-MAR-PR-0301





1800 PUMP RENTAL nationalpump.com.au | sales@nationalpump.com.au







SPEC SHEET



SULZER SUBMERSIBLE DEWATERING PUMPS (J LRG)

PROTECTIVE BELTS FOR MORE DURABLE OPERATION

Sulzer submersible dewatering pumps can easily be fitted with zinc anode belts providing protection against galvanic corrosion. The cast parts of the pump can also be protectively coated, ensuring trouble-free operation when pumping salty or brackish water.

STAINLESS STEEL IMPELLERS FOR TOUGH APPLICATIONS

Submersible dewatering pumps J 205HD and J 405HD can be fitted with stainless steel impellers to give an extra corrosive and abrasive resistance when pumping in harsh environments.

POLYURETHANE FOR PROLONGED DRAINAGE PUMP LIFE

Sulzer offers wear rings in polyurethane, which increases resistance when pumping fine sand and other abrasive mediums. Polyurethane-coated wear rings are available as an option on J 205-604.

SERIES CONNECTIONS FOR PUMPING HIGH HEADS

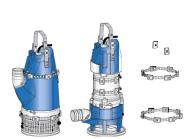
With minimal effort, the standard Sulzer drainage pumps can be rebuilt to function in series for high head applications.

BOTTOM SUCTION ADAPTER FOR TOTAL WATER REMOVAL

On pumps J 12-15, the standard bottom plate may be replaced by a bottom suction adapter. A basement floor or a tank can be pumped practically dry with this adapter.

REPAIR KITS THAT SAVE TIME AND MONEY

Sulzer offers repair kits for all submersible dewatering pumps. The repair kits include common parts required for a typical repair. Our modular pump design makes it possible to repair all drainage and sludge pumps with just a few repair kits.









NPE-MAR-PR-0301



