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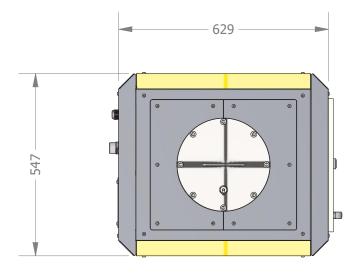


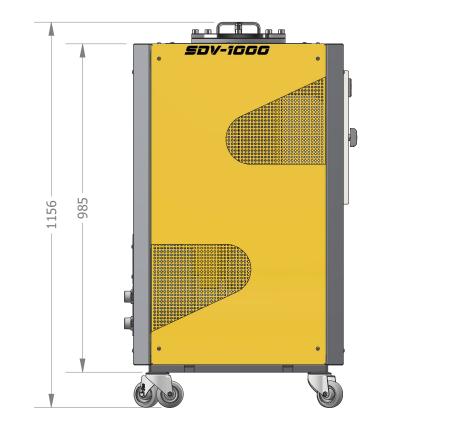
## SYSTEM SPECIFICATIONS

- Inlet Pressure -	Flooded Suction
- Maximum Pressure -	1.5 Bar MAX.
- Maximum Flow -	60 Litres MIN.
- Coolant Volume -	10 Litres
- RPM -	2900
- Voltage -	415V 3ph
- Power -	10 Amps
- Kilowatts -	1.2kW
- Filter -	15 micron
- Integrated Control Panel	



# SYSTEM FOOTPRINT

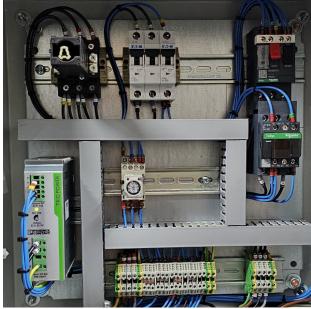






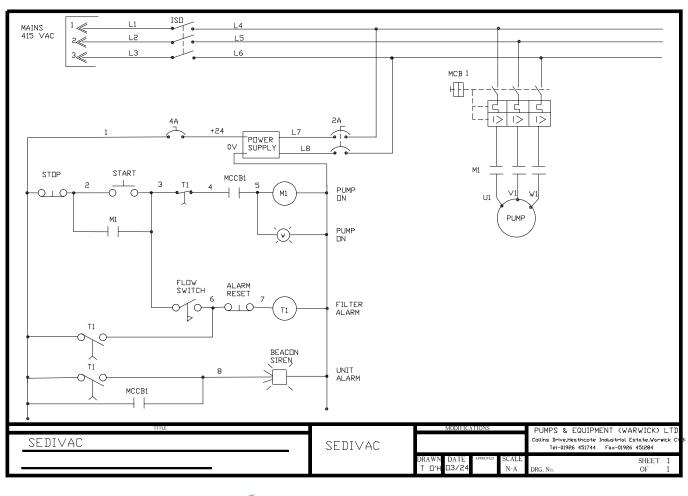


# **ELECTRICAL PANEL & SCHEMATIC**



CIRCUIT BREAKER / CONTACT / OVERLOAD CODES: MCB1 - MAIN PUMP CIRCUIT BREAKER 415V MCCB1 - MAIN PUMP 24V CIRCUIT

Main Electrical Board





# **ELECTRICAL INSTALLATION**

Please comply with all local and national electrical codes and safety guidelines when making electrical connections to the Sedivac system.

Refer to electrical drawing during installation.

Refer to foot print drawing for recommended work clearance.

NOTE: This Sedivac is a standalone / offline system with a closed loop circuit.

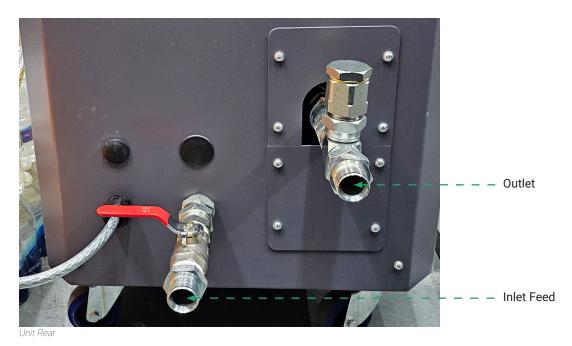
The unit is factory tested using 110vAC. L1,L2 and L3 are 3-phase supply voltage.

See drawing supplied.

# PLUMBING INSTALLATION

Connecting Sedivac to the Machine Tank:

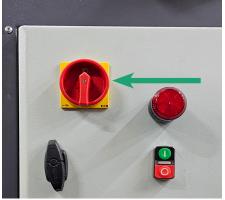
- Connect Inlet feed to the machine tank vacuum hose.
- Connect to the Outlet to the machine tank agitator hose.



## SEDIVAC FILTRATION SYSTEM INITIAL SETUP / FILTER PURGE



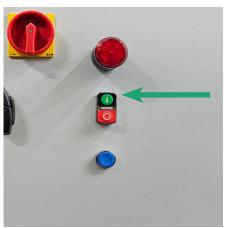
Step 1: Ensure the Sedivac system is connected to the machine tank and that power is connected.



Step 2: Switch the power isolation switch to the 'on' position.



Step 3: Unscrew the test port on the Filter lid and connect the supplied purge hose. Insert the end of the hose in the supplied jug.



Step 4: Activate the pump by pressing the green pump activate button. The filter will fill - liquid will be visible through the purge hose.



NOTE: If the filter alarm sounds, press the blue reset button (filter alarm reset), then re-activate the pump with the green activate button.



Step 5: When the jug has started filling, press the red standby button (below the green button). The filter has now been purged successfully.



Step 6: Ensure the pump has stopped before removing the purge hose. Replace the protective filter port cap.



Step 7: Activate the pump by pressing the green pump activate button. The system will now agitate and filter the machine tank fluid.



# METHOD OF OPERATION

When properly connected the Sedivac system will operate in the following way.

- 1 Fluid is pulled from the machine tank through the Sedivac filter.
- 2 The integrated pump returns the filtered fluid to the machine tank.
- 3 The tank agitator lifts sediment and directs it towards the suction tube.
- 4 The alarm sounds if the filter bag is full. Replace filter bag.
- 5 Alarm still engaged, consult Pumps and Equipment.

# PREVENTATIVE MAINTENANCE

Power down and check the suction tube, agitator tube and all hoses monthly. Ensure the power cable is free from abrasion.

If in doubt, call the helpline to ensure the system is running safely and efficiently.

# TROUBLESHOOTING

The information listed below is for guidance only. If in doubt, call the helpline. Only qualified individuals are permitted to inspect the system or follow the suggested actions.

FAULT	CAUSE	SOLUTION
Unit not functioning	Power supply not connected.	Turn on power Check harting plug is connected.
Motor not rotating pump	Coupling is slipping	Tighten grub screw
Not producing required flow	Feed pump blocked Hoses blocked Filter blocked	Clear pump. Clear hoses. Change over filter.
Filter alarm sounding.	Blocked filter or system fault.	Check the filter, as described in the 'Filter Change Procedure' section. If clean, check for suction tube blockages - ENSURE POWER IS OFF WHEN CHECKING SUCTION. Press the blue 'Filter Alarm Reset' button before pressing the green pump activate button.
Pump not priming	Drawing air from suction hose and fittings. Feed pump not running.	Seal and tighten fittings. Turn on feed pump.

## Customer Helpline: 01926 451744



# FILTER CHANGE PROCEDURE

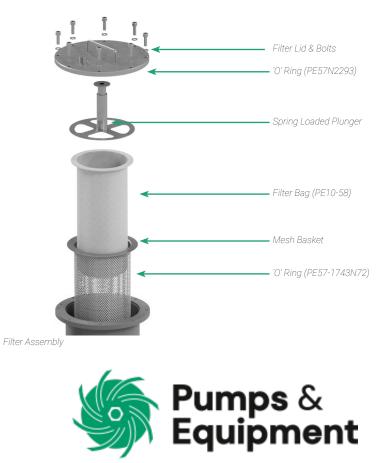
The following procedure can be used to replace a filter on the Sedivac. The filter block alarm will sound when a filter needs changing.

#### The system will be in an alarm state - alarm beacon sounding / flashing, along with the control panel indicator.

#### Filter Replacement Procedure :- When machine is at stop condition.

- 1) Turn power off.
- 2) Remove lid off filter (see image below).
- 3) Remove spring loaded plunger assembly.
- 4) Remove dirty bag with handle and dispose of in accordance with local regulations.
- 5) Replace with new filter bag (PE10-58).
- 6) Refit spring loaded plunger.
- 7) Refit filter lid, ensuring 'O' ring is in correct position.
- 8) Re-tighten 8x bolts to specified torque (as per label).
- 9) Power on.
- 10) Follow Filter Purge guide to remove air from the system.

If the above procedure does not resolve the issue of filter blocked, refer to the troubleshooting guidelines.



## PUMP - JE 1-110 G10 NT20









**Product Data** Suction port Threaded - 1 1/2" ISO 228 (BSP) Delivery port Threaded - 1 1/2" ISO 228 (BSP) Qmax 24 m3/h - 400 l/min (105 USgpm) Hmax 16 m (52 ft) Solids handling 20 mm (0.8") Motor power 1,1 kW - 1,5 HP Motor type **IEC** standard Winding for inverters Cast iron casing Motor make WEG W22 Premium Weiaht 32 kg (67 lb)

Without foot valve up to a height of 7.5 m (24.5 ft)

To abrasive liquids which are turbid and sandy

Easily replaceable cast iron wear plate, front to

5)Easy maintenance Removable front cover for direct access to the

3)Semi-open impeller High thickness casting impact resistant

Indicative picture of the product

#### Close-coupled self-priming centrifugal pump with electric motor

#### **Characteristics**

The J series self-priming centrifugal pumps are used in applications where a rapid priming capacity is required from demanding suction heights combined with the ability to transfer and manage polluted fluids, dirty and abrasives with suspended large diameter solids. The system is based on an inspectable pump casing which also acts as a water tank allowing a first quick priming without auxiliary systems, simplifying management of the system and reducing the time for maintenance. Within the physically permitted suction height limits, J pumps are a more comfortable and reliable solution than submersible pumps and vertical submersed impeller pumps.

### Applications

#### Industry:

clean, dirty, sandy, muddy, neutral, alkaline, acidic liquids: low viscous petroleum products, solvents even if dirty; milk of lime, caustic soda; washing, cooling, recirculation, smoke scrubbing.

#### Treatment:

pumping polluted corrosive wastewater containing sand, mud or solids in suspension; dosing neutralizing liquids; pumping out settled sludge.

#### Naval:

loading and unloading; bilge pumping; washing, fire-fighting, stripping, sanitary duty and circulation

**Benefits** 

4)Wear plate

the impeller

impeller

1)Rapid self-priming

2)High resistance

Agriculture: surface irrigation; liquid manure oxygenation; transfer and spraying

Varisco S.r.l. has certified its Quality, Environment and Safety Management System in accordance with the requirements of the international standard ISO 9001-14001-45001, recognized by the Lloyd Register.

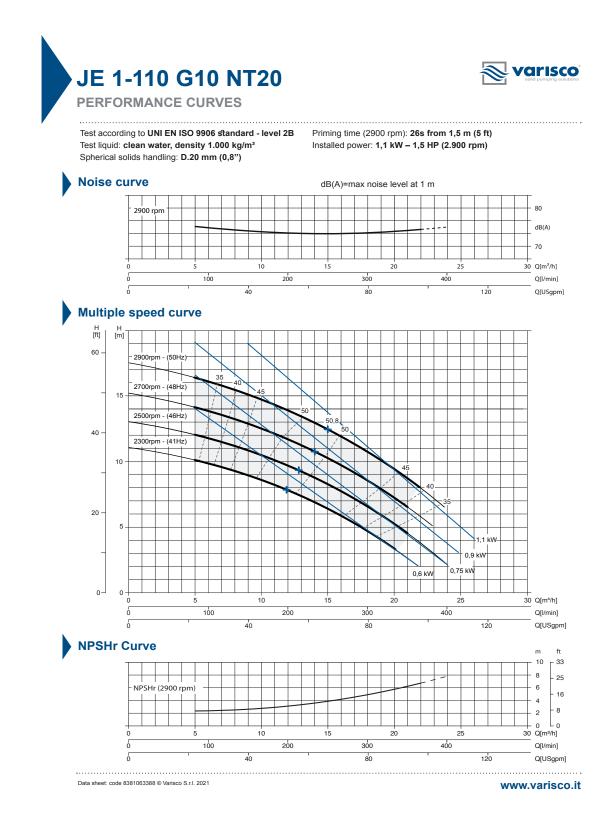
Data sheet: code 8381063388 © Varisco S.r.l. 2021

liquid manure or fertilizers; distribution of liquid animal feed; transfer of wine must; washing.

www.varisco.it



## PUMP - JE 1-110 G10 NT20



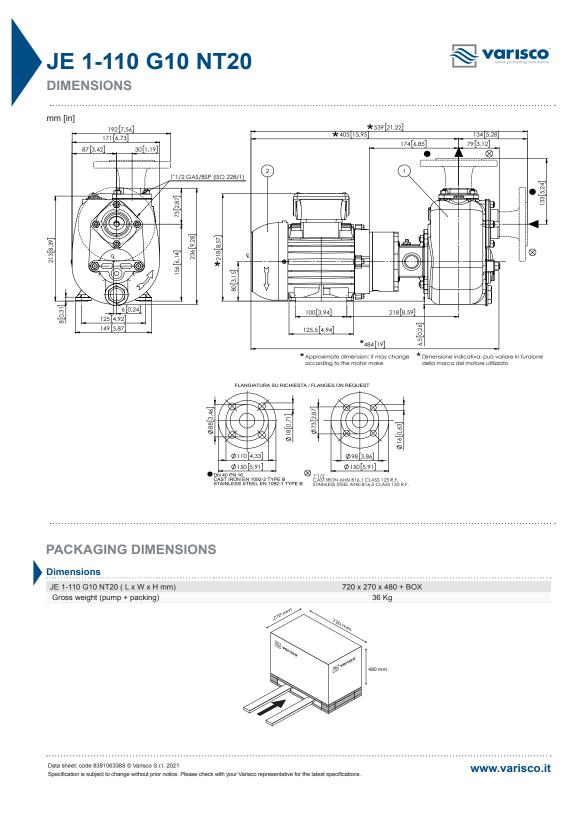


## PUMP - JE 1-110 G10 NT20

JE 1-110 G10 NT	<sup>-</sup> 20			
TECHNICAL DATA				
Pump				
Pump model		J 1-110 G10		
Qmax [2.900 rpm]		24 m³/h - 400 l/min (105 USgpm)		
Hmax [2.900 rpm]	16 m (52 ft)			
Suction port	Threaded - 1 1/2" ISO 228 (BSP)			
Delivery port	Threaded - 1 1/2" ISO 228 (BSP)			
Impeller type	Semi-open, 3 vanes			
Solids handling	20 mm (0.8")			
Casing	EN 1561 EN-GJL-200 cast iron			
Impeller	EN 1561 EN-GJL-200 cast iron			
Wear Plate	EN 1561 EN-GJL-200 cast iron			
Non-return valve	Check-valve, NBR			
Shaft	C45E EN 10083-2 steel			
Mechanical seal		Silicon carbide / Silicon carbide		
Elastomers		NBR		
Lubrification		Grease		
Notor				
Mains Supply (Three Phase)	220 VD/380 VY ± 5%	230 VD/400 VY ± 10%	240 VD/415 VY ± 5%	
Frequency (Nominal Speed)		50 Hz ± 3% / 2.900 rpm		
Absorbed Current	4,21/2,43 A	4,23/2,43 A	4,06/2,35 A	
Starting Current Is/In	6.6	6.8	7.7	
Efficiency (100%)	82,7% (IE3)	82,7% (IE3)	83,4% (IE3)	
Make		WEG W22 Premium		
Standards/Directives		IEC 60034-1		
Construction		Cast iron, TEFC		
Mounting Arrangement		IM 2101 B34		
No. poles		2		
Rated power	1,1 kW - 1,5 HP			
Degree of protection Markings	IP55 CE, UL, CSA, EAC			
Insulation Class/Temperature		F/80°K		
Duty Type	Varia	Continuous - S1 Variable - suitable for inverter use (30-50 Hz)		
Temperature Sensors	PTC, available as option			
Arrangement				
Model		Close-coupled N		
Dimensions	171 x 484 x 236 mm (6,73 x 19 x 9,28")			
Coatings	Polyuret	hane enamel, average thickness of	100 µm	
Color		RAL 5010 Blue (standard)		
Features	Close-coupled with rigid coupling "N"			
Height connection		0,17 m (0,55 ft)		
Optionals				
Flanged ports DN40 PN16 EN1092-2 Type B		Cod. 10042259		
Flanged ports 1 1/2" ANSI B16.1 Class 125 R.F.		Cod. 10042817		
Automatic mechanical seal greaser		Cod. 10008316		
Integrated VSD motor inverter		Available by 2021		
Veight				
Net weight		32 kg (67 lb)		
Data sheet: code 8381063388 © Varisco S.r.I. 2021			www.varisco.	

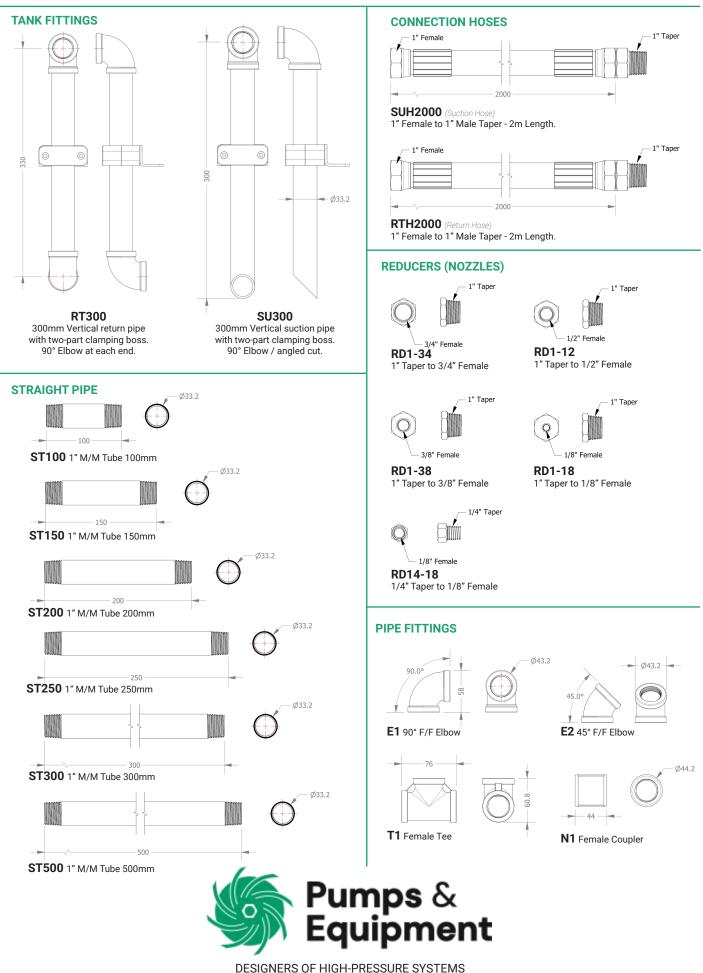


## PUMP - JE 1-110 G10 NT20





# **INSTALLATION KIT**



# FAULT REPORT FORM

Photocopy and complete as required.

DATE OF FAULT:	
TIME OF FAULT:	
CONTACT NAME:	
CONTACT TELEPHONE NUMBER:	
SYSTEM SERIAL NUMBER:	
DESCRIPTION OF FAULT	
ACTION TAKEN:	

EMAIL TO: sales@pumps-equip.co.uk



## SEDIVAC FILTRATION SYSTEM FILTER BAG ORDER FORM

## Filter Bag Part Number 'PE1058'

Photocopy and complete as required.

Address to be Sent:

Ordered By:

Order Number:

Telephone:

Email:

Email to: sales@pumps-equip.co.uk





**NOTES**