

SUBMERSIBLE PUMP 4" TYPE DOMINATOR



SUMMARY

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WARNINGS

For the safety of individuals and objects.

Carefully follow the instructions marked with the following symbols.



DANGER - ELECTRIC SHOCK RISK

Warns that the failure to follow the directions given may cause electric shock.



DANGER

Warns that the failure to follow the directions given could cause serious risk to individuals or objects.



WARNING

Warns that the failure to follow the directions given could damage the pump or the system.

WARNING

Read this manual carefully before installing this pump. Any damage caused by failure to observe the directions contained in this manual will not be covered by warranty.

CHAPTER 1

FEATURES

DOMINATOR electropumps are suitable to pump clear water that contains no dissolved gases.

The electropumps of this series are multiphase centrifugal and submersible pumps. The parts that come into contact with water are all suitable to be used with cooking water. Every electropump has been carefully tested and packed. On receiving the product, verify that the electropump has not been damaged during transport. If damage is reported, immediately contact the dealer within and no later than 8 days from the purchase date.

CHAPTER 2

LIMITATIONS

The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter. The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system. Information on benchmark efficiency is available at: www.europump.org/efficiencycharts

**WARNING**

The electropump cannot be used to move inflammable or dangerous liquids.

**WARNING**

Verify that the electropump never runs without liquids.

- Max. Temperature of pumped liquid 40° C continuous operation
- Max. On/off cycles/hour 30 equally spaced
- Max. Immersion depth 20 m
- Maximum dimension of pumped solid objects 2 mm
- Maximum amount of sand 50 g/m³
- Minimum diameter of the well 135 mm DOMINATOR 5" (without float)
- Minimum diameter of the well 100 mm DOMINATOR 4" (without float)

CHAPTER 3

INSTALLATION

**DANGER - ELECTRIC SHOCK RISK**

During installation, verify that the pump is disconnected from the electrical supply.

**WARNING**

Make sure that the float switch stops the pump, when the min. level of liquid is reached.

**WARNING**

Make sure no obstacles obstruct the movement of the float switch.

**DANGER**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

- It is advisable to fit a check valve to prevent the fluid from re-circulating when the pump is stopped. Avoid using the electric cable to lift or transport the pump.
- Use a stainless steel or nylon rope, suitable to sustain the weight, to immerse the electropump.
- 1 slot only has been provided to anchor the electropump.
- Anchor the rope so that it balances the weight of the electropump.
- It is advisable to connect the electric cable to the delivery with plastic straps, at a distance of about 3 m, when using rigid piping.
- It is also advisable to fit automatic level controls to prevent the electropump from running without liquids and a pressure gauge (suitable to the electropump model) to verify its performance during operation.
- The automatic DOMINATOR model is equipped with a pre-set float switch (See fig.1). To change the adjustment range, increase or decrease the free piece of float switch cable by sliding it through the seat on the handlebar.

CHAPTER 4

ELECTRICAL CONNECTIONS



WARNING

Verify that the voltage and frequency of the electropump shown on the nameplate correspond to those available on the mains.



DANGER - ELECTRIC SHOCK RISK

The installer must make sure that the electric system is grounded in accordance with the law in force.



DANGER - ELECTRIC SHOCK RISK

Make sure that the electric system has a high-sensitivity circuit breaker D=30 mA (DIN VDE 0100T739).

Electropumps have a plug with double ground contact at the end of the power supply cable. In this case the electropump is grounded by inserting the plug in the socket.

OVERLOAD PROTECTION

DOMINATOR is a single-phase electropump with in-built thermal circuit breaker and automatic reset and doesn't therefore require any external protections.

COMPONENTS		CABLE COLOURS								
		VOLTAGE								
		50 Hz					60 Hz			
		1x 220-230 V	1x 240 V	1x 110-115 V	3x 230-400 V	3x 240-415 V	1x 220-230 V	1x 110-115 V	3x 230-480 V	3x 230-460 V
1	AUX	green	green	green			grey	red		
2	RUN	red	yellow	brown			white	brown		
3	COMMON	black	black	black			black	black		
L1	AV. 1				black	yellow			white	blue
L2	AV. 2				red	red			red	red
L3	AV. 3				green	green			green	green
4	CONDENSER									
5	POWER SUPPLY CORD									
6	GROMMET									
7	PLUG									
8	GROUND CABLE	yellow - green								
9	CONDENSER CABLE	white								
10	FLOAT SWITCH CABLE	brown								
11	FLOAT SWITCH CABLE	tight blue								
12	FLOAT SWITCH									

CHAPTER 5

STARTING THE UNIT (SEE PICTURE 1 - PAGE 91)

**WARNING**

Use the electropump for the applications listed on the nameplate.

**WARNING**

Do not operate the electropump without liquids, to avoid damaging hydraulic parts and seal.

**WARNING**

Do not operate the electropump when the interception valve on the delivery side is completely closed.

Connect the pipe to the 1" 1/4 delivery mouth before starting the electropump. Connections must be made so as to avoid losses. Start the pump by inserting the plug in an appropriate outlet.

CHAPTER 6

MAINTENANCE AND TROUBLESHOOTING

**DANGER - ELECTRIC SHOCK RISK**

Make sure the machine is disconnected from electric power supply, before performing servicing operation.

**DANGER - ELECTRIC SHOCK RISK**

The power cord must be replaced by the manufacturer or the Customer service, using special tools.

- Under normal conditions DOMINATOR electropumps do not need any type of maintenance. In order to avoid possible failures, it is advisable to periodically check the pressure supplied and current absorption.
- A decrease in pressure is a symptom of wear. An increase in current absorption is a sign of abnormal mechanical friction in the pump and/or motor.
- If the electropump is not going to be used for long periods of time it should be emptied completely, rinsed with clean water and put in a dry place.

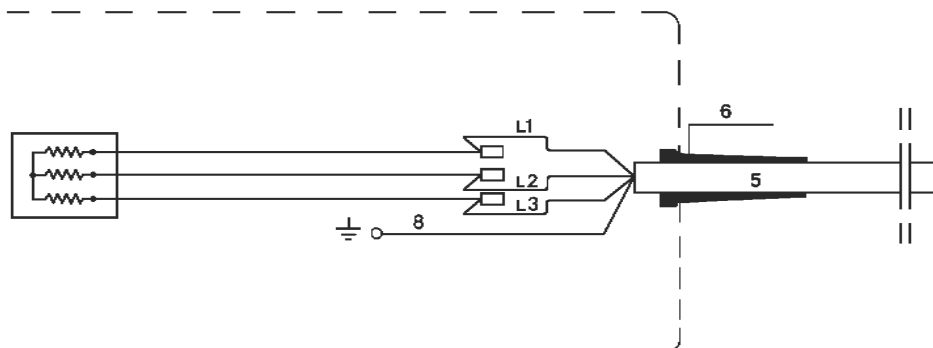
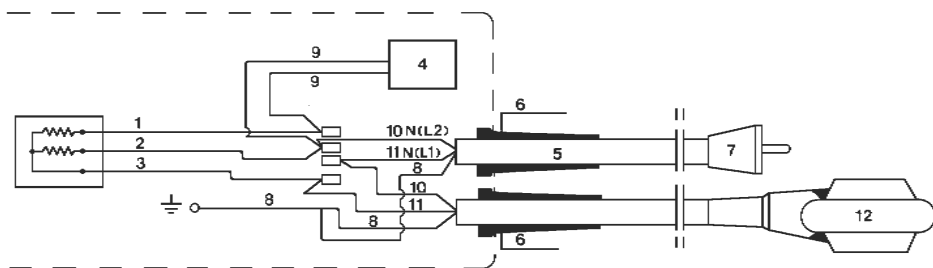
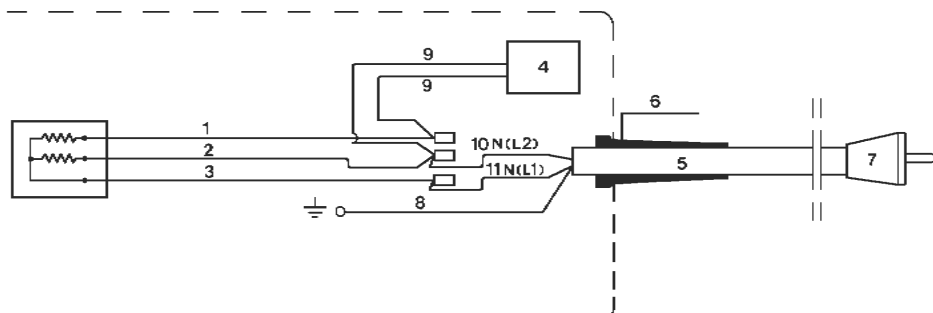
CLEANING THE FILTER

- If the sucked water is not perfectly clean, it may be necessary to clean the filter with a steel brush to scrape the dirt accumulated on the external surface.
- It is also possible to clean the internal section of the filter.
- Loosen the screw that fixes the filter to the body of the electropump and remove it.
- Scrape the dirt with a steel brush and rinse it with clean water.
- If this is not sufficient, have the hydraulic parts cleaned by an authorised centre.

PROBLEM	POSSIBLE CAUSE	REMEDY
THE ELECTROPUMP DOES NOT PUMP WATER, THE MOTOR DOES NOT RUN	1) No power.	1) Check the presence of voltage and if the plug is plugged in properly.
	2) Motor protection tripped.	2) Verify the cause and reset the switch. If the thermal circuit breaker has tripped wait for the system to cool down.
	3) Defective condenser.	3) Replace the condenser.
	4) Shaft blocked.	4) Verify the cause and unblock the electropump.
THE MOTOR RUNS BUT THE ELECTROPUMP DOES NOT PUMP LIQUID	1) The pump is sucking air.	1) • Make sure that the joints are airtight. • Check that the level of liquid has not dropped below the minimum priming level.
	2) The pump rotates in the wrong direction	2) Reset the direction of rotation.
	3) Suction grid blocked.	3) Clean the suction grid.
	4) Check valve blocked.	4) Clean or replace valve.
THE ELECTROPUMP STOPS AFTER RUNNING FOR A SHORT PERIOD OF TIME BECAUSE ONE OF THE THERMAL MOTOR CIRCUIT BREAKER TRIPS	1) The power supply does not conform with the data on the nameplate.	1) Check the voltage on the power supply cable leads.
	2) A solid object is blocking the impellers.	2) Take the electropump to an authorised centre so that it can be disassembled and completely cleaned.
	3) The liquid is too thick.	3) Change the type of electropump.

If the problem cannot be eliminated after carrying out the above-described operations contact the closest service centre.

FIGURA 1 / PICTURE 1





(I)

SOLO PER PAESI UE

Non gettare le apparecchiature elettriche tra i rifiuti domestici. Secondo la Direttiva Europea 2002/96/CE sui rifiuti di apparecchiature elettriche ed elettroniche e la sua attuazione in conformità alle norme nazionali, le apparecchiature elettriche esauste devono essere raccolte separatamente, al fine di essere reimpiegate in modo eco-compatibile.

(GB)

ONLY FOR EU COUNTRIES

Do not dispose of electric tools together with household waste material! In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

(F)

POUR LE PAYS EUROPÉENS UNIQUEMENT

Ne pas jeter les appareils électriques dans les ordures ménagères ! Conformément à la directive européenne 2002/96/CE relative aux déchets d'équipements électriques ou électroniques (DEEE), et à sa transposition dans la législation nationale, les appareils électriques doivent être collectés à part et être soumis à un recyclage respectueux de l'environnement.

(D)

NUR FÜR EU-LÄNDER

Werfen Sie Elektrowerkzeuge nicht in den Hausmüll! Gemäss Europäischer Richtlinie 2002/96/EG über Elektro- und Elektronik-Altgeräte und Umsetzung in nationales Recht müssen verbrauchte Elektrowerkzeuge getrennt gesammelt und einer umweltgerechten Wiederverwertung zugeführt werden.

(E)

SÓLO PARA PAÍSES DE LA UNIÓN EUROPEA

No deseches los aparatos eléctricos junto con los residuos domésticos! De conformidad con la Directiva Europea 2002/96/CE sobre residuos de aparatos eléctricos y electrónicos y su aplicación de acuerdo con la legislación nacional, las herramientas eléctricas cuya vida útil haya llegado a su fin se deberán recoger por separado y trasladar a una planta de reciclaje que cumpla con las exigencias ecológicas.

(P)

DECLARAÇÃO DE CONFORMIDADE CE

Não deite ferramentas eléctricas no lixo doméstico! De acordo com a directiva europeia 2002/96/CE sobre ferramentas eléctricas e electrónicas usadas e a transposição para as leis nacionais, as ferramentas eléctricas usadas devem ser recolhidas em separado e encaminhadas a uma instalação de reciclagem dos materiais ecológica.

(NL)

ALLEN VOOR EU-LANDEN

Geef elektrisch gereedschap niet met het huisvuil mee! Volgens De Europese richtlijn 2002/96/eg inzake oude elektrische en Elektronische apparaten en de toepassing daarvan binnen de Nationale wetgeving, dient gebruikt elektrisch gereedschap Gescheiden te worden ingezameld en te worden afgevoerd naar Een recycle bedrijf dat voldoet aan de geldende milieu-eisen.

(DK)

KUN FOR EU-LANDE

Elværktøj må ikke bortskaffes som almindeligt affald! I henhold til det europæiske direktiv 2002/96/EF om bortskaffelse af elektriske og elektroniske produkter og gældende national lovgivning skal brugt elværktøj indsamles separat og bortskaffes på en måde, der skåner miljøet mest muligt.

(S)

GÄLLER ENDAST EU-LÄNDER

Elektriska verktyg får inte kastas i hushållssoporna! Enligt direktivet 2002/96/EG som avser äldre elektriska och elektroniska utrustning och dess tillämpning enligt nationell lagstiftning ska uttjänta elektriska verktyg sorteras separat och lämnas till miljövänlig återvinning.

(N)

KUN FOR EU-LAND

Kast aldri elektroverktøy i husholdningsavfallet! I henhold til EU-direktiv 2002/96/EF om kasserte elektriske og elektroniske produkter og direktivets iverksetning i nasjonal rett, må elektroverktøy som ikke lenger skal brukes, samles separat og returneres til et miljøvennlig gjenvinningsanlegg.

(FIN)

KOSKEE VAIN EU-MAITA

Älä hävittää sähkötyökaluja tavallisen kotitalousjätteen mukana! Vanhoja sähkö- ja elektronikkalaitteita koskevan EU-direktiivin 2002/96/EY ja sen maakohtaisten soveltusten mukaisesti käytetyt sähkötyökalut on toimitettava ongelmajätteen keräyspisteeseen ja ohjattava ympäristöstavalliseen kierrätykseen.

(GR)

Μόνο για τις χώρες της ΕΕ

Μην πετάτε τα ηλεκτρικά εργαλεία στον κάδο οικιακών απορριμμάτων! Σύμφωνα με την ευρωπαϊκή οδηγία 2002/96/ΕΚ περί ηλεκτρικών και ηλεκτρονικών συσκευών και την ενσωμάτωσή της στο εθνικό δίκαιο, τα ηλεκτρικά εργαλεία πρέπει να συλλέγονται ξεχωριστά και να επιστρέφονται για ανακύκλωση με τρόπο φιλικό προς το περιβάλλον.

(PL)

Dobrycy tylko państw UE

Nie wyrzucaj elektronarzędzi wraz z odpadami z gospodarstwa domowego! Zgodnie z Europejską Dyrektywą 2002/96/WE w sprawie zużytego sprzętu elektrotechnicznego i elektronarzędziowego oraz dostosowaniem jej do prawa krajowego, zużyte elektronarzędzia należy segregować i zutylizować w sposób przyjazny dla środowiska.

(RO)

Numai pentru țările UE

A nu se arunca echipamentele electrice împreună cu deșeurile domestice. Conform Directivei Europene 2002/96/CE privind deșeurile din echipamente electrice și electronice, și transpunerea sa conform legilor naționale, aparaturile electrice uzate trebuie colectate separat, pentru a fi refolosite în mod ecologic.

(H)

Csak EU-országok számára

Az elektronikus kéziszerszámokat ne dobja a háztartási szeméttel! A használt villamos és elektronikai készülékekről szóló 2002/96/EK irányelv és annak a nemzeti jogba való átültetése szerint az elhasznált elektronikus kéziszerszámokat külön kell gyűjteni, és környezetbarát módon újra kell hasznosítani.

(CZ)

Jen pro státy EU

Elektrické nářadí nevyhazujte do komunálního odpadu! Podle evropské směrnice 2002/96/EG o nakládání s použitými elektrickými a elektronickými zařízeními a odpovídajících ustanovení právních předpisů jednotlivých zemí se použité elektrické nářadí musí sbírat odděleně od ostatního odpadu a podrobit se ekologicky šetrnému recyklování.

(TR)

Sadece AB ülkeleri için

Elektrikli el aletlerini evdeki çöp kutusuna atmayınız! Kullanılmış elektrikli aletleri, elektrik ve elektronikli eski cihazlar hakkındaki 2002/96/EG Avrupa yönetmeliğine göre ve bu yönetmelğin ulusal hukuk kurallarna göre uyarlanarak, ayrı olarak toplanmalı ve çevre şartlarına uygun bir şekilde tekrar değerlendirilmeyle gönderilmelidir.

(RUS)

Только для стран ЕС

Не выкидывайте электротools вместе с обычным мусором! В соответствии с европейской директивой 2002/96/EG об утилизации старых электрических и электронных приборов и в соответствии с местными законами электротools, бывшие в эксплуатации, должны утилизироваться отдельно безопасным для окружающей среды способом.