



- IT** MANUALE D'ISTRUZIONI
- GB** INSTRUCTIONS MANUAL
- F** MANUEL D'INSTRUCTIONS
- D** BETRIEBSANLEITUNG
- E** MANUAL DE INSTRUCCIONES
- NL** GEBRUIKSAANWIZIJNG
- SF** KÄYTTÖHJE
- P** USO E MANUTENÇÃO
- S** BRUKSANVÍSNING
- RUS** ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ
- CZ** NÁVOD NA POUŽITÍ
- SI** NAVODILA ZA UPORABO
- SK** NÁVOD NA ABSLUHU
- HR** UPUTE ZA KORIŠTENJE
- SCG** UPUTSTVA ZA UPOTREBU
- PL** INSTRUKCJA OBSŁUGI
- HU** KEZELÉSI KÉZIKÖNYV





**MISURE DI SICUREZZA - SAFETY MEASURES - MESURES DE SÉCURITÉ - SICHERHEITSMABNAHMEN - MEDIDAS DE SEGURIDAD - VEILIGHEIDSMATREGELEN - TURVATOIMENPITEET - MEDIDAS DE SEGURANÇA SÄKERHETSÅTGÄRDER - МЕРЫ БЕЗОПАСНОСТИ - BEZPEČNOSTNÍ INSTRUKCE - NOSTNI UKREPI - PEČNOSTNÉ POKYNY - MJERE SIGURNOSTI - MERE BEZBEDNOSTI - ŚRODKI BEZPIECZEŃSTWAV - BIZTONSÁGI ELŐÍRÁSOK**

<b>IT</b>	L'apparecchio non è destinato ad essere usato da persone (bambini compresi) le cui capacità fisiche sensoriali e mentali siano ridotte, oppure con mancanza di esperienza o di conoscenza, a meno che esse abbiano potuto beneficiare, attraverso l'intermediazione di una persona responsabile della loro sicurezza, di una sorveglianza o di istruzioni riguardanti l'uso dell'apparecchio. I bambini devono essere sorvegliati per sincerarsi che non giochino con l'apparecchio. (EN 60335-1).
<b>GB</b>	The 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. (EN 60335-1)
<b>F</b>	L'appareil n'est pas destiné à être utilisé par des personnes (enfants compris) dont les capacités physiques, sensorielles ou mentales sont réduites, ou manquant d'expérience ou de connaissance, à moins qu'elles aient pu bénéficier, à travers l'intervention d'une personne responsable de leur sécurité, d'une surveillance ou d'instructions concernant l'utilisation de l'appareil. Il faut surveiller les enfants pour s'assurer qu'ils ne jouent pas avec l'appareil. (EN 60335-1)
<b>D</b>	Das Gerät darf nicht von Personen (einschließlich Kindern) benutzt werden, deren physische, sensorische oder mentale Fähigkeiten eingeschränkt sind, oder denen es an Erfahrung oder Kenntnissen mangelt, sofern ihnen nicht eine für ihre Sicherheit verantwortliche Person zur Seite steht, die sie überwacht oder beim Gebrauch des Gerätes anleitet. Kinder nicht unbeaufsichtigt in die Nähe des Gerätes lassen und sicherstellen, dass sie nicht damit herumspielen. (EN 60335-1)
<b>E</b>	El aparato no deberá ser utilizado por personas (tampoco niños) con capacidades físicas, sensoriales o mentales reducidas, o bien sin la debida experiencia o conocimientos, salvo que un responsable de su seguridad les haya explicado las instrucciones y supervisado el manejo de la máquina. Se deberá prestar atención a los niños para que no jueguen con el aparato. (EN 60335-1)
<b>NL</b>	Het apparaat is niet bedoeld voor gebruik door personen (waaronder kinderen) met beperkte lichamelijke, sensoriele of mentale vermogens, of die onvoldoende ervaring of kennis ervan hebben, tenzij zij bij het gebruik van het apparaat onder toezicht staan van of geïnstrueerd worden door iemand die verantwoordelijk is voor hun veiligheid. Kinderen moeten in het oog gehouden worden om erop toe te zien dat ze niet met het apparaat spelen. (EN 60335-1)
<b>SF</b>	Laitetta eivät saa käyttää lapset tai muut sellaiset henkilöt, joiden fyysiset, aistinvaraiset tai henkiset ominaisuudet tai kokemuksen ja tiedon puute estää/estävät heitä käyttämästä laitteita turvallisesti ilman valvontaa ja opastusta. Lapsia tulee valvoa, etteivät he leiki laitteella. (EN 60335-1)
<b>P</b>	O aparelho não é destinado a ser utilizado por pessoas (inclusive crianças) com reduzidas capacidades físicas, sensoriais ou mentais, ou que faltem de experiência ou conhecimentos, a não ser que possam beneficiar, através de uma pessoa responsável pela sua segurança, de um controlo ou de instruções relativas à utilização do aparelho. As crianças devem ser vigiadas de forma a assegurar que não brinquem com o aparelho. (EN 60335-1)
<b>S</b>	Apparaten får inte användas av barn eller personer med nedsatt fysisk eller psykisk förmåga eller utan erfarenhet och kunskap. Det måste i sådana fall ske under översyn av en person som ansvarar för deras säkerhet och som kan visa hur apparaten används på korrekt sätt. Håll barn under uppsikt för att säkerställa att de inte leker med apparaten. (EN 60335-1)
<b>RUS</b>	Агрегат не предназначен для использования лицами (включая детей) с физическими, сенсорными или умственными ограничениями, или же не имеющими опыта или знания обращения с агрегатом, если это использование не осуществляется под контролем лиц, ответственных за их безопасность, или после обучения использованию агрегата. Следите, чтобы дети не играли с агрегатом. (EN 60335-1)
<b>CZ</b>	Přístroj není určený osobám (včetně dětí), které mají snížené fyzické, smyslové nebo mentální schopnosti nebo mající nedostatečné zkušenosti či znalosti o přístroji. Výjimku mohou tvořit pouze ty případy, kde tyto osoby mohou využít dozoru nebo pokynů, týkajících se používání přístroje, prostřednictvím osoby zodpovědné za jejich bezpečnost. Děti musí být pod dohledem, aby bylo zaručené, že si s přístrojem nehrají. (EN 60335-1)

<b>SI</b>	Naprava ni namenjena za uporabo oseb (vključno otroci), pri katerih telesne, čutne in umne sposobnosti so omejene, ali pa v odsotnosti izkušenosti ali poznavanja, razen če iste niso pridobile čez posredstvo za njihovo varnost odgovorne osebe, sposobnost za nadzor ali pa navodila v zvezi z uporabo te le naprave. Otroke treba stalno nadzirati, kako bi se preprečili, da se isti ne igrajo z napravo. (EN 60335-1)
<b>SK</b>	Prístroj nie je určený na používanie osobami (vrátane detí) so zníženými fyzickými, zmyslovými alebo mentálnymi schopnosťami alebo pri nedostatočných skúsenostiach alebo znalostiach o prístroji, s výnimkou prípadov, že by títo mohli mať z neho úžitok prostredníctvom: osoby zodpovednej za ich bezpečnosť, dohľadu alebo pokynov, týkajúcich sa používania prístroja. Deti musia byť pod dohľadom, aby bolo možné uistiť sa o tom, že sa s prístrojom nehrajú. (EN 60335-1)
<b>HR</b>	Sprava nije namjenjena za upotrebu osoba (uključivši djecu) čije su tjelesne, osjetne i umne sposobnosti ograničene, ili u izostanku iskustva ili spoznaje, s iznimkom ako te osobe nisu ishodile posredstvom odgovornih osoba za njihovu sigurnost, prikladnu sposobnost za nadgledanje, ili upute u vezi s upotrebom iste sprave. Djecu se mora nadgledati, kako bi se uvjerili da se ne igraju sa spravom.(EN 60335-1)
<b>SCG</b>	Aparat nije namjenjen za upotrebu lica (uključena djeca) kod kojih su tjelesne, čulne i umne vještine ograničene, ili u odsutnosti iskustva ili poznavanja, osim ako ista lica nijesu postigla putem odgovornih lica za njihovu bezbjednost, dgovarajuću vještinu za nadzor, ili upustva vezana za upotrebu istog aparata. Djecu mora da se nadzoruje, kako bi se uvijerili da se ne igraju s aparatom. (EN 60335-1)
<b>PL</b>	Urządzenie nie jest przeznaczone do użytku przez osoby (w tym dzieci) o ograniczonych zdolnościach fizycznych, sensorycznych i umysłowych lub przez osoby nie posiadające odpowiedniego doświadczenia i wiedzy, chyba że będą one nadzorowane lub zostaną poinstruowane na temat korzystania z urządzenia przez osobę odpowiedzialną za ich bezpieczeństwo. Dzieci powinny znajdować się pod nadzorem, aby mieć pewność, że nie bawią się urządzeniem. (EN 60335-1)
<b>HU</b>	A berendezés NEM alkalmas olyan személyek (beleértve a gyermekeket is) általi használatra akik csökkent fizikai, érzékszervi és mentális képességgel rendelkeznek, vagy hiányzik a megfelelő tapasztalatuk vagy ismeretük, kivéve, ha mindezek pótolhatók egy a biztonságukért felelős személy közreműködésével, vagy felügyelettel, vagy a berendezés használatára vonatkozó megfelelő utasítások kiadásával. Felügyelettel biztosítani kell, hogy gyermekek NE tudjanak játszani a berendezéssel (EN 60335-1)

## 1. SAFETY MEASURES



Before starting the pump, read this instruction booklet carefully and keep it in a safe place for future reference. The pump must only be used for the purpose for which it was designed. For safety reasons the pump must not be used by anyone under the age of 16 or by anyone who has not read and understood the present instructions booklet.



The power cord and floating switch must never be used to carry or move the pump. Always use the pump's handle.



When handling the pump, while it is connected to the electric power supply, you should avoid all contact with water.



Never remove the plug by pulling on the power cord.



Before taking any action on the pump, always remove the plug from the power socket.



If the power supply cord has been damaged, it must be replaced by the manufacturer or its authorized customer support service in order to avoid all risks.



The pump is equipped with a thermal overload safety device. In the event of any overheating of the motor, this device automatically switches off the pump. The cooling time is roughly 15 to 20 minutes, then the pump automatically comes on again. If the overload cutout is tripped, it is essential to identify and deal with the cause of the overheating. See Troubleshooting.

## 2. USE

**Multi-impeller submersible pumps with built-in electronics ideal for rain water and mains irrigation systems, for pumping water from tanks, ponds and wells and other applications that require high pressure.**

The pump is equipped with a built-in electronic control unit which manages its operation (pump ON/FF) and prevents damages.

The electronics protects the pump against dry running conditions:


- Priming cycle: When started, the pump will perform the following operation until it is primed: four priming trials of 30" (motor ON) with pauses of 3" (motor OFF). If there is no water, i.e. if the priming trials fail, the pump will stop for an hour before trying to prime again. If also this trial fails, there will be a 5 hours pause. Afterwards, if the lack of water persists, the pump will try to prime every 24 hours until it has picked up a prime.
- Normal Operation: If, during the pumps operation, the water supply is inferior to the minimum delivery for more than 40", the pump will go into alarm, and start a priming cycle. In this case the priming trials are made after 1, 5, and 24 hours until the pump picks up a prime.


The electronic unit also protects the pump from damages that could be caused by the blocking of the Not Return Valve (NRV). Such blockings are generally due to dirt deposits, or sand and they cause the pump to operate also if there is no water demand from the end-user. The protection function stops the pump automatically every hour; if no damage is detected the pump re-starts immediately. If the VNR is blocked the pump goes into alarm and stops. In this case the pump can be re-started only after unplugging the pump and removing the obstruction to the VNR.


The best working condition is with the pump be completely submersed in water.

Anyway the motor's cooling system allows the use at the minimum suction height for very short periods.


The pump is equipped with a stainless steel anti-deposit filter


 **The temperature of the fluid being pumped must never exceed 35° C.**

 **The pump must not be used to pump salt water (unless specifically designed for the purpose), sewage, flammable, corrosive or explosive liquids (e.g. petroleum oil, petrol, thinners), grease, oils or foodstuffs.**

 **Comply with the rules and regulations of the local water authority when using the pump for the supply of domestic water.**

### 3. STARTING THE PUMP

 **Given the different provisions applicable to the safety of electric systems in different countries, make sure that the pump system, as concerns its intended use, is in accordance with current legislation.**

 **Before starting the pump, make sure that:**

- the voltage and frequency specified on the pump's nameplate coincide with those of the available power supply;
- there are no signs of damage to the pump or its power cord;
- the electric connection is made in a dry place, protected against any risk of flooding;
- the electric system is complete with a residual current circuit-breaker ( $I \Delta n \leq 30 \text{ mA}$ ) and an efficient earthing connection;
- Any extension cords must comply with the requirements of the DIN VDE standard 0620.

### 4. RECOMMENDATIONS

To ensure the proper operation of the pump, it is important to comply with the following recommendations:

- The pump must only be used when it is immersed in water.
- The pump must be placed in a stable position inside a trap or in the lowest part of the place where it is installed.
- Periodically, it is advisable to make sure that no dirt (leaves, sand, etc.) has accumulated in the collection trap.

### MAINTENANCE AND CLEANING

It is absolutely essential to prevent any risk of the pump freezing. In the event of freezing temperatures, remove the pump from the liquid, empty it and keep it in a place where it cannot freeze. The pump must be disconnected from the mains power supply before any cleaning operation is performed. The pump is maintenance free.

## 5. TROUBLESHOOTING



Before taking any troubleshooting action, disconnect the pump from the power supply (i.e. remove the plug from the socket). If there is any damage to the power cable or pump, any necessary repairs or replacements must be performed by the manufacturer or his authorized customer support service, or by an equally-qualified party, in order to prevent all risks.

Fault	Possible causes	Solutions
The motor does not start or makes no noise.	A) The motor is not powered. B) There is no water (pump in alarm mode) C) The VNR is blocked (pump in alarm mode)	A) Check the power supply B) Check the water level C) Clean the valve
The pump delivers no water.	A) The suction grid or piping are clogged. B) The impeller is worn or stuck.	A) Remove the obstruction. B) Replace the impeller or remove the obstruction.
The flow rate is too low.	A) The suction grid is partially blocked. B) The impeller or delivery pipe are partially blocked or encrusted.	A) Remove any obstructions. B) Remove any obstructions.
The pump stops running (possible intervention of the thermal overload switch).	A) The liquid to be pumped is too dense and overheats the motor. B) The water temperature is too high. C) A solid object is blocking the impeller. D) Power supply doesn't comply with the nameplate's data.	A-B-C-D) Disconnect the power cord, correct the reason for overheating; then wait until the pump is cooled, plug the cord and resume operation.

## ELECTRICAL DATA

Size	P1 W	Qmax l/m	Voltage Volt	Frequency Hz	Head Max. m
750	750	95	220-240/230 V	50	28
1000	900	95	220-240/230 V	50	36
1200	1100	95	220-240/230 V	50	45
1000	900	95	115-127 V / 220-230 V	60	36
1200	1100	95	115-127 V / 220-230 V	60	45

## 6. DISPOSAL

This product or its parts must be disposed of in accordance with the laws regarding the environment; Use the local, public or private, refuse collection services.

## 7. GUARANTEE

Any material or manufacturing defects will be corrected during the guarantee period established by current law in the country where the product is purchased. It is up to the manufacturer to decide whether to repair or replace any faulty parts.

The manufacturer's guarantee covers all substantial defects attributable to manufacturing or material defects, providing the product has been used correctly and in compliance with the instructions.

The guarantee becomes null and void in the event of the following:

- unauthorized attempts to repair the appliance;
- unauthorized technical changes to the appliance;
- use of non-original spare parts; manhandling;
- inappropriate use, e.g. for industrial purposes.

The guarantee does not cover:

- parts liable to rapid wear and tear.

For any action under guarantee, contact an authorized customer support service, presenting your receipt for the purchase of the product.

The manufacturer accepts no liability for any inaccuracies in the present booklet due to printing or copying errors. The manufacturer reserves the right to make any changes to the product he deems necessary or useful, without affecting its essential features.