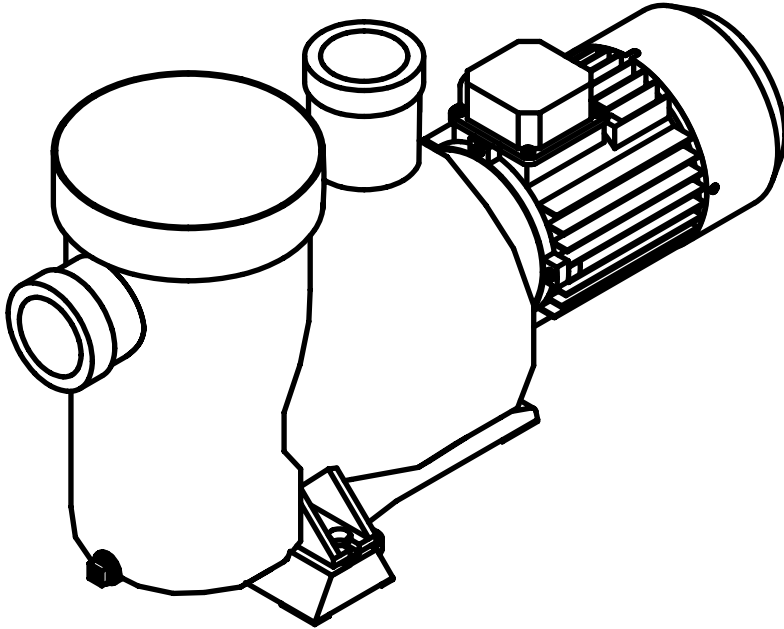


INSTALLATION AND GENERAL MAINTENANCE MANUAL
MANUEL D'INSTALLATION ET MAINTENANCE GÉNÉRAL
MANUAL DE INSTALACIÓN Y MANTENIMIENTO GENERAL
MANUALE DI INSTALLAZIONE E MANUTENZIONE GENERALE
ALLGEMEINES INSTALLATIONS- UND MONTAGEARBEITEN
MANUAL DE INSTALAÇÃO E MANUTENÇÃO GERAL
ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ ΚΑΙ ΓΕΝΙΚΗΣ ΣΥΝΤΗΡΗΣΗΣ
РУКОВОДСТВО ПО УСТАНОВКЕ И ОБЩЕМУ ОБСЛУЖИВАНИЮ

دليل مضخة فيكتوريا بلس سايلنت



POOL PUMPS
POMPES POUR PISCINES
BOMBAS PARA PISCINAS
POMPA PER PISCINAS
PUMPEN FÜR SCHWIMMBECKEN
BOMBAS PARA PISCINAS
ΑΝΤΛΙΕΣ ΠΙΣΙΝΑΣ
НАСОСЫ ДЛЯ БАССЕЙНОВ

مضخات المسابح





Recycling

This symbol is required by European Community Directive 2012/19/UE on WEEE (Waste Electrical and Electronic Equipment) and means that your appliance must not be thrown into a normal bin. It will be selectively collected for the purpose of reuse, recycling or transformation. Any substances it may contain which are potentially dangerous to the environment shall be eliminated or neutralized. Request information on recycling procedures from your retailer.

Recyclage

Ce symbole est requis par la Directive de la Communauté Européenne 2012/19 / UE sur les DEEE (Déchets d'Équipements Électriques et Électroniques) et signifie que votre appareil ne doit pas être jeté dans une poubelle normale. Il sera collecté de manière sélective à des fins de réutilisation, de recyclage ou de transformation. Toutes les substances qu'il peut contenir et qui sont potentiellement dangereuses pour l'environnement doivent être éliminées ou neutralisées. Demandez des informations sur les procédures de recyclage à votre revendeur.

Reciclaje

Este símbolo es exigido por la Directiva 2012/19/UE de la Comunidad Europea sobre RAEE (residuos de aparatos eléctricos y electrónicos) e indica que no se debe tirar el aparato al contenedor normal. Habrá que realizar una recogida selectiva con el fin de reutilizarlo, reciclarlo o transformarlo y de eliminar o neutralizar cualquier sustancia que pueda contener y sea potencialmente peligrosa para el medio ambiente. Pida información sobre los procesos de reciclaje en su punto de venta.

Riciclaggio

Questo simbolo è richiesto dalla Direttiva della Comunità Europea n. 2012/19/UE sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE) e indica che il dispositivo acquistato non deve essere gettato in un normale cestino. Sarà invece oggetto di raccolta differenziata a scopo di riutilizzo, riciclaggio o trasformazione. Qualora il medesimo contenesse delle sostanze potenzialmente nocive per l'ambiente occorre eliminarle o neutralizzarle. Per ulteriori informazioni sulle procedure di riciclaggio rivolgersi al proprio rivenditore.

Recycling

Dieses Symbol ist nach der Richtlinie der Europäischen Gemeinschaft 2012/19/UE über WEEE (Elektro- und Elektronikgeräte-Abfall) vorgeschrieben und bedeutet, dass Ihr Gerät nicht über den Haushaltsmüll entsorgt werden darf. Es wird für seine Wiederverwendung, Recycling oder Umwandlung getrennt gesammelt. Jegliche eventuell darin enthaltenen potenziell umweltgefährdende Stoffe müssen entsorgt oder neutralisiert werden. Ihr Händler kann Sie über Recyclingverfahren informieren.

Reciclagem

Este símbolo é exigido pela Diretiva da Comunidade Europeia 2012/19/UE relativa aos REEE (Resíduos de Equipamentos Elétricos e Eletrónicos) e indica que o seu aparelho não deve ser descartado juntamente com o lixo urbano. Será recolhido seletivamente para fins de reutilização, reciclagem ou transformação. Quaisquer substâncias potencialmente nocivas para o meio ambiente que contenham devem ser eliminadas ou neutralizadas. Solicite mais informações sobre os procedimentos de reciclagem ao seu distribuidor.

Ανακύκλωση

Το σύμβολο αυτό απαιτείται σύμφωνα με την Οδηγία της Ευρωπαϊκής Κοινότητας 2012/19/UE σχετικά με τα Απόβλητα ηλεκτρικού και ηλεκτρονικού εξοπλισμού (WEEE) και σημαίνει ότι η συσκευή σας δεν πρέπει να απορριφθεί σε συμβατικό κάδο απορριμμάτων. Θα συλλεχθεί με ειδικό τρόπο, με σκοπό την εκ νέου χρήση, την ανακύκλωση ή τον μετασχηματισμό. Οι ουσίες που μπορεί να περιέχει, οι οποίες είναι δυνητικά επικίνδυνες για το περιβάλλον, πρέπει να εξαιρεθούν ή να εξουδετερωθούν. Ζητήστε πληροφορίες σχετικά με τις διαδικασίες ανακύκλωσης από το κατάστημα λιανικής πώλησης.

Утилизация

Этот символ требуется в соответствии с Директивой Европейского сообщества 2012/19 / UE по WEEE (отработанное электрическое и электронное оборудование) и означает, что ваш прибор нельзя выбрасывать в обычную мусорную корзину. Он будет собран отдельно с целью повторного использования, переработки или преобразования. Любые содержащиеся в нем вещества, потенциально опасные для окружающей среды, должны быть удалены или нейтрализованы. Запросите информацию о процедурах утилизации у вашего продавца.

إعادة التدوير

ويعني أنه يجب عدم إلقاء الجهاز في حاوية (WEEE) بشأن نفايات الأجهزة الكهربائية والإلكترونية/UE هذا الرمز مطلوب بموجب توجيه الجماعة الأوروبية ١٩/٢٠١٢ عادية. وسيتم جمعها بشكل انتقائي لغرض إعادة الاستخدام أو إعادة التدوير أو التحويل. ويجب التخلص من أي مواد قد تحتوي عليها والتي يُحتمل أن تكون خطرة على البيئة أو تحييدها. يمكنك طلب معلومات حول إجراءات إعادة التدوير من بائع التجزئة.

IMPORTANT SAFETY, INSTALLATION AND MAINTENANCE INFORMATION

This manual contains basic information on the safety measures to be adopted during installation, maintenance and start-up. The fitter and the user must therefore read the instructions before installation and start-up.

The manual can be downloaded as a PDF file from the website: **www.astralpool.com**



- The units described in this Manual are specially designed for the pre-filtering and recirculation of water in swimming pools.

- They are designed to work with clean water at temperatures that do not exceed 35 °C.



- All assembly, electrical installation and maintenance work must be carried out by qualified, authorized personnel who have carefully read the installation and service instructions.

- 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.

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



- Our pumps may only be assembled and installed in pools that are compliant with standards IEC / HD 60364-7-702 and required national rules. Should you have any doubts please consult your dealer.

- The installation should follow standard IEC/HD 60364-7-702 and required national rules for swimming pools.

- The pump can not be installed in the Zone 0 and Zone 1. To see drawings refer to page 97.

- The pump is intended to be used while fastened to a support or while secured in a specific location.
- A sump with an adequate outlet for the liquid is considered to be placed where flooding is likely to occur.
- If a self-priming pump is to be fitted above the water level, the pressure differential to the pump suction pipe should not be higher than 0.02 MPa (2 mH₂O). Ensure that the suction pipe is as short as possible as a longer pipe would increase suction time and the installation's load losses.
- The unit should be connected to an alternating current supply (see data on the pump's plate) with an earth connection, protected by a residual current device (RCD) with a rated residual operating current that does not exceed 30 mA.

1. GENERAL SAFETY INSTRUCTIONS

These symbols (  ) indicate the possibility of danger where the corresponding instructions are not followed.



DANGER. Risk of electrocution.

Failure to abide by these instructions may lead to the risk of electrocution.



DANGER.

Failure to abide by these instructions may lead to the risk of injury to people or damage to property.



WARNING.

Failure to abide by these instructions may lead to the risk of damage to the pump or the installation.

2. GENERAL SAFETY REGULATIONS

GENERAL



- Install the pump units in line with the specific instructions for each installation.

- Respect current regulations regarding accident prevention.

- All modifications to the pump require prior authorization from the manufacturer. Original spare parts and accessories authorized by the manufacturer ensure greater safety. The pump manufacturer is exempt from all liability regarding any damage caused by unauthorized spare parts or accessories.



- When working on each unit or others connected to them, disconnect the unit from the power supply and the start-up devices, as the electrical parts of the pump are live during operation.



- To guarantee safety when operating the machine, you must comply with the installation and service instructions.

- In the event of defective operation or faults, contact your supplier or nearest dealer.

WARNINGS DURING INSTALLATION AND ASSEMBLY WORK



- In cases of junction box connections only: when connecting the electrical wiring to the motor, check the layout inside the connection box and make sure there are no pieces of wiring inside after it has been closed and that the grounding conductor is correctly connected. Connect the motor in line with the wiring diagram attached to the machine.

- In cases of junction box connections only: make sure that the electrical wiring connections to the terminal box are well mounted and screwed tightly to the connection terminals.

- Ensure the seal of the motor's junction box is properly fitted to prevent water getting in. Likewise, position and tighten the gland inside the cable duct of the junction box.



- Make sure that water is unable to enter the motor or the live electrical parts.

- Where the intended use is not as indicated, additional technical adaptations and regulations may apply.

WARNINGS DURING START-UP



- Before starting the machine, check the calibration of the electric protection devices on the motor and that the protection against electrical and mechanical contacts is correctly positioned and secure.

WARNINGS DURING ASSEMBLY AND MAINTENANCE WORK



- Follow local installation regulations when assembling and installing the pumps.



- Make sure that water is unable to enter the motor or the live electrical parts.

- Avoid contact at all times - even accidentally - with moving parts while the unit is running and/or before it comes to a complete standstill.



- Wait for the unit to come to a halt before handling it.



- Before any electrical or mechanical maintenance operation, disconnect the unit from the power supply and block the start-up devices.



- Follow the steps below before handling the unit:

1. Disconnect the unit from the mains.

2. Block all start-up devices.



3. Check that there is no voltage in the circuits, even in the auxiliary circuits and additional features.

4. Wait for the impeller to come to a complete standstill.

The above list is a guideline only as there may be other requirements in addition to local laws for safety reasons.



- For regular control:

- Check that the mechanical parts are tightly secured and check the condition of the screws supporting the machine.

- Check that the power conductors and isolating parts are in their correct position, are secure and in a good state of repair.

- Check the temperature of the machine and the electric motor. In the event of a fault, stop the machine immediately and contact the nearest Technical Assistance Service.

- Check for machine vibrations. In the event of a fault, stop the machine immediately and contact the nearest Technical Assistance Service.



- Due to the complex nature of the cases described, the installation, user and maintenance instructions contained in this manual do not seek to examine all possible and imaginable cases of service and maintenance. Should you require additional instructions or have specific problems, please do not hesitate to contact the nearest Technical Assistance Service.

3. INSTALLATION AND ASSEMBLY

GENERAL



- Fit the pump horizontally in order to accommodate the pre-filter. The pumps are fitted with a pre-filter with a basket inside to collect any large particles, as they may damage the hydraulic parts inside the pump.
- All pumps are fitted with a stand with holes in it to anchor it to the ground (Fig. 1).

PIPING



- To connect the piping, glue the pipes and the connectors, supplied together with the pump; the fitting connections to the suction and return ports on the pump are threaded and include seals to prevent water loss (Fig. 2).
- Fit the return pipes completely perpendicular and centered in relation to the port to be connected to prevent the pump and the pipe from being subjected to external stress, which apart from making fitting difficult, could break them (Fig. 2).
- Fit the suction piping on a slight 2% slope towards the pump to avoid the formation of air pockets (Fig. 2).
- To ensure the pump works correctly, prime the pump pre-filter until water rises up through the suction pipe (Fig. 3).

LOCATION



- Fit the pump below the water level in the pool to improve pump performance.



- Make sure that the pump is safe from possible flooding and receives dry ventilation.

ELECTRICAL INSTALLATION



- It is essential that you use a multiple disconnection device with a space of at least 3 mm between surfaces to disconnect the unit from the electrical current.
- Use a rigid cable to connect the pump to the mains. If you use a flexible cable to connect it to the mains, it must have cable lugs to connect it to the terminals of the pump's motor.

- Adjust the value of the ground fault circuit interrupter in line with pump intensity.
- Before connecting the motor, check the type of fuse required.
- Check the layout and connection of the earthing cable in the unit.
- Respect the electrical installation and connection instructions. Failure to do so may lead to the pump's manufacturer declining all liability and rendering the warranty null and void.
- The installation may be subject to special regulations.
- Unsuitable mains connections involve the risk of electrocution.

For pumps with a single-phase motor:

- Thermal protection is incorporated.
- Use a motor guard with magneto-thermal protection.
- The adjustment data for the thermal relay is to be used as a guideline, as the motor is already fitted with protection.
- For 230 V, use a H07 RN-F3 type connection sleeve with a cable section that adapts to the power of the motor and to the length of the cable.

For pumps with a three-phase motor:

- Use a motor guard with magneto-thermal protection.
- Protect the pump against overloads with a cut-off switch for the motor.
- Adjust the thermal value according to the thermal protection table. For the connection Δ (3 x 230 V network), use the protection with the highest indicated value. For the connection Y (3 x 400 V network), use the protection with the lowest indicated value.
- Connect the lowest voltage at Δ and the highest at Y for voltage intervals other than 230/400 V; 400/690 V.
- For AC, use a H07 RN-F3 type connection sleeve with a cable section that adapts to the power of the motor and the length of the cable.
- The mains cable may only be connected by skilled, authorised personnel.

4. START-UP INSTRUCTIONS

PRIOR TO START-UP



- Measurements prior to first start-up:

1. Remove the pre-filter cap by unscrewing the nut holding it in place (Fig. 5).
 2. Fill the pump with water through the pre-filter until it rises up through the suction pipe.
 3. Should the basket be removed during these operations, do not forget to replace it to prevent large particles from entering the pump that could block it.
 4. Check that the mains voltage and frequency correspond with those indicated on the pump's rating plate.
 5. Fit the pre-filter cap and screw on tightly, without forgetting to fit the seal in its housing (Fig. 5).
- The pumps must not be run without the pre-filter having first been filled with water. Where this is not the case, the mechanical gasket may be damaged, leading to a loss of water.



- Check that the motor rotates in the correct direction by means of the fan located at the back of the motor that can be seen through the view hole on the fan cover (Fig. 6).

START-UP



- Open all the valves and connect the motor.
- Activate the self-priming mode and wait a reasonable time for this to be completed.

5. MAINTENANCE

Depending on the level of water cleanliness, the following should be done every 100 operating hours:



- Clean the pre-filter basket regularly to avoid drops in pressure. To prevent the basket from breaking, do not hit it during the cleaning process.

- Should the pump stop, check that the consumption in amperes of the motor that is running is equal to or below that indicated on the manufacturer's rating plate. If this information is not available, contact the nearest Technical Assistance Service.



- Empty the pump if it is to remain at a standstill for a certain length of time, especially in cold countries where there is a risk of freezing.

- Remove the purge cap to empty the pump.

- Every time the pre-filter is opened, clean the seal and its housing of any impurities to ensure airtightness when the cap is closed (Fig. 5).
- Pump components that, due to their normal use, suffer wear and/or tear must be regularly replaced to ensure good pump performance. The following table lists the fungible and / or consumable components of the pump and the period of time in which they must have been replaced.

DESCRIPTION OF THE COMPONENT	TIME BETWEEN REPLACEMENTS
Capacitor	1 year
Bearings	1 year
Mechanical seal	1 year
O-rings and other sealing components ⁽¹⁾	1 year

⁽¹⁾ The opening and closing of the pump for the replacement of any of the inner spare parts does not guarantee the subsequent sealing. For this reason, it is recommended that the O-rings and sealing components are replaced whenever the mechanical seal and / or bearings are changed.

The estimated working life of the above parts has been established according to normal product use and installation conditions.

Follow the instructions in the installation manual to maintain the working life of the pump.

6. REMOVAL



- The motor unit can be removed from the pump body without having to disconnect the pump's suction and return pipes.
- To remove the motor unit from the pump body, remove the screws that join them together.

7. TROUBLESHOOTING

- | | |
|---|---|
| 1. The pump is not primed | 4. The pump will not start |
| 2. The pump only releases a small flow of water | 5. The motor is making a noise but will not start |
| 3. The pump makes a noise | 6. The motor has stopped |

1	2	3	4	5	6	CAUSES	SOLUTIONS
●	●					Air entering the suction pipe	Check the condition of connections and seals on the suction pipe
●						Filter cap badly sealed	Clean the filter cap and check the condition of the rubber seal
●	●					Motor turning in wrong direction	Invert 2 power phases
●	●		●			Wrong voltage	Check the voltage on the rating plate and that of the mains
	●					Pre-filter blocked	Clean the filter
	●					Load loss in the installation	Prevent parts from causing load loss wherever possible
		●				Pump incorrectly secured	Secure the pump correctly
				●		Motor blocked	Remove the motor and contact the technical service
				●		Increased temperature in the terminal box due to electric arc	Check the junction box connections
				●		The thermal protection trips	Connect the cables correctly to the junction boxes
				●		Incorrect junction box connections	Tighten the cable correctly to the junction box / Adapt the size of the cable connection to the junction box

INFORMATIONS IMPORTANTES SUR LA SÉCURITÉ, L'INSTALLATION ET LA MAINTENANCE

Le manuel que vous avez entre les mains contient l'information fondamentale relative aux mesures de sécurité à adopter pour l'installation, la maintenance et la mise en service. Il est pour cela indispensable que l'installateur et l'utilisateur lisent les instructions avant de passer au montage et à la mise en marche.

Le manuel peut être téléchargé sous format pdf depuis la page suivante : www.astralpool.com



- Les machines citées dans ce manuel sont spécialement conçues pour obtenir le préfiltrage et le recyclage de l'eau dans les piscines.

- Elles sont conçues pour travailler avec des eaux propres et à une température ne dépassant pas les 35°C.



- Les travaux de montage, installation électrique et de maintenance doivent être réalisés par des personnes qualifiées et autorisées ayant lu au préalable les instructions d'installation et de service avec attention.

- Cet appareil n'est pas destiné à être utilisé par des personnes (y compris des enfants) ayant des capacités physiques, sensorielles ou mentales réduites, ou un manque d'expérience et de connaissances, à moins qu'elles n'aient reçu une supervision ou des instructions concernant l'utilisation de l'appareil par une personne responsable de leur sécurité. Les enfants doivent être surveillés pour s'assurer qu'ils ne jouent pas avec l'appareil.

- Cet appareil peut être utilisé par des enfants âgés de 8 ans et plus et des personnes ayant des capacités physiques, sensorielles ou mentales réduites ou un manque d'expérience et de connaissances s'ils ont reçu une supervision ou des instructions concernant l'utilisation de l'appareil en toute sécurité et comprennent les risques. impliqués. Les enfants ne doivent pas jouer avec l'appareil. Le nettoyage et l'entretien par l'utilisateur ne doivent pas être effectués par des enfants sans surveillance.



- Nos pompes peuvent uniquement être montées et installées dans des piscines conformes aux normes IEC / HD 60364-7-702 et aux dispositions nationales en vigueur. Pour tout renseignement à ce sujet, veuillez consulter votre vendeur.