

NanoFiber Filter Auto
Filtre NanoFiber Auto
Filtro NanoFiber Auto
Filtro NanoFiber Auto
NanoFiber-Filter Auto
Filtro NanoFiber Auto

67355

67356

67357

67509



INSTALLATION AND MAINTENANCE MANUAL
MANUEL D'INSTALLATION ET D'ENTRETIEN
MANUAL DE INSTALACIÓN Y MANTENIMIENTO
MANUALE DI INSTALAZIONE E MANUTENZIONE
EINBAU-UND BETRIEBSANLEITUNG
MANUAL DE INSTRUÇÕES E MANUTENÇÃO

ASTRALPOOL 

IMPORTANT: The instruction manual you are holding includes essential information on the safety measures to be implemented for installation and start-up. Therefore, the installer as well as the user must read the instructions before beginning installation and start-up. Keep this manual for future reference.

To achieve optimum performance of the Nanofiber Filter Auto follow the instructions provided below:

General safety prescriptions:

These symbols    indicate the possibility of danger as the consequence of not respecting the corresponding prescriptions.

 **DANGER.** Risk of electrocution. The lack of warning of this prescription involves a risk of electrocution.

 **DANGER.** The lack of warning of this prescription involves a risk of personal injury or material damages.

 **WARNING.** The lack of warning of this prescription involves a risk of damage to the filter or the installation.

GENERAL SAFETY REGULATIONS.

 The filter described in this manual has been specially designed to provide correct water filtration in the swimming pool.

 It has been designed to work with clean water at temperatures not exceeding 35°C.

The installation must be carried out in accordance with the specific instructions for each particular implementation.

 Current in-force regulations for the prevention of accidents must be observed. Any modification to the filter's electronic module requires the prior authorisation from the manufacturer. Original spare parts and accessories authorised by the manufacturer will guarantee greater safety. The manufacturer of this filter is exempt from all responsibility for any damage caused by non-authorised spare parts or accessories.

During operation, the filter's electric and electronic parts have electric power connected to them.

Any work to the filter and any equipment connected to it, must only be carried out when the start-up devices have been disconnected.

The user must ensure that installation and maintenance work is carried out by adequately qualified and authorised personnel, and these have previously carefully read the installation and service instructions.

Filter operational safety is only guaranteed by full compliance and respect of the installation and service instructions.

The appliance is not to be used 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. Children being supervised not to play with the appliance.

ADVICE DURING INSTALLATION AND ASSEMBLY OPERATIONS.

During the connection operations of the electrical wiring to the filter modules, great attention must be given to polarity, and it must be verified that pieces of wiring are not left inside after closing.

Make all connections by following the instructions in this manual.

It should be verified that the electrical wiring connections to the electronic card are firmly made.

The seal on the module's box should be checked for correct positioning to prevent the entry of water, it should also be checked that the compression gland is also correctly located.

 Particular attention should be paid, so that, under no circumstances, is it possible for water to enter the electronic module. In the case where the intended use is not that for which the valve was designed, adaptation and supplementary technical regulations may be necessary.

ADVICE FOR WHEN PUTTING INTO SERVICE.

Before putting the filter into service, it is necessary to verify the calibration of the electrical protection devices in the operations cabinet and that they are correctly positioned and fixed in place.

The maximum voltage values must never be exceeded under any circumstances.

In the case of incorrect operation or a fault, please contact the closest manufacturer's representative or technical assistance service.

NOTE: It is recommended that the bathing facilities are not used while the filtration equipment is in operation.

ADVICE DURING INSTALLATION AND MAINTENANCE WORK.

National installation regulations must be taken into account when assembling and installing the filter. Extra care must be taken so that it is not possible, under any circumstances, for water to enter the filter electronic circuit.

 All contact, including accidental, must be avoided at all times with the moving parts in the filter during operation and/or before complete shutdown.

Before carrying out any maintenance or any other electrical or electronic work, it must be ensured that switch-on devices are locked.

 It is recommended that the following steps be taken before performing any maintenance on the filter:

- 1- Remove electrical power to the filter.
- 2- Lock the switch-on devices.
- 3- Verify that there is no electrical power being applied to the circuits, including auxiliary and supplementary services.

This list must be considered indicative and not binding with respect to safety, there may be other specific safety standards in particular regulations.

 **IMPORTANT:** due to the complexity of the situations covered, the instructions for installation, use and maintenance contained in this manual, do not make any attempt to cover all possible service and maintenance cases. If additional instructions are necessary or specific problems arise, please do not hesitate in contacting the distributor or the filter manufacturer directly.

Our filters may only be installed in swimming or other pools which fully comply with the HD 384.7.702 standard. When any doubt exists a specialist should be consulted.

1. CONTENT OF 67355-67356-67357:

Inside the box, you will find:

- Nanofiber filter
- Nanofiber filter cartridge (inside the filter)
- Bag of components:
 - Pressure gauge
 - Connections
 - Additional cable gland
 - Operating Instructions

2. CONTENT OF 67509 KIT:

If you have purchased the 67509 KIT you must begin the installation in step nº7. Inside the box, you will find:

- Cover assembly
- Bag of components:
 - Pressure gauge
 - Additional cable gland
 - Operating Instructions

3. GENERAL CHARACTERISTICS:

The filter medium inside the cartridge is a treated nanofiber designed to separate dirt particles as small as 5 microns.

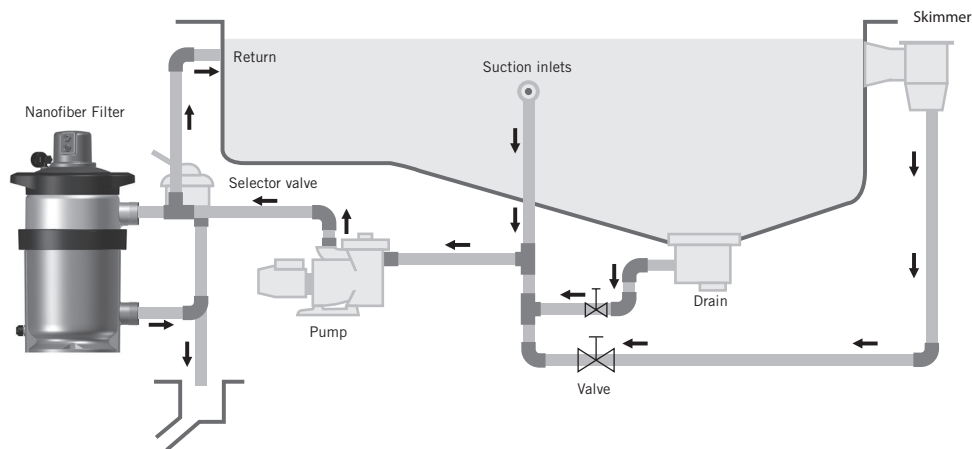
Under no circumstances may the manufacturer be held liable for the assembly, installation or start-up of the filter, nor for its subsequent handling, or the addition of hydraulic or electric components that have not already been installed in your facility.

4. INSTALLATION:

The filter should be as close as possible to the pool, but neither the filter nor the power cable should ever be installed less than 3.5 m away from the edge of the pool, and preferably 0.50 m below the level of the pool's water surface. Make sure there is drainage available at the place where the filter is to be installed.

It is recommended that the NanoFiber filter be fitted together with an AstralPool selector valve. There is a manual valve (code 07444) and a basic automatic one (code 57187).

The valve is sold separately.



ATTENTION

If the filter is installed indoors, a correctly sized drain should be installed, to drain off as much water as possible from the swimming pool, to avoid flooding risks of the premises or adjoining areas. If this is not done, the filter manufacturer will not be held liable for possible damage to third parties caused by the filter.

Nanofibre is designed to work with clean water at temperatures that do not exceed 35 °C.

IMPORTANT: Do not use an iron and hemp pipe for the selector valve connection, it is essential to use plastic accessories and TEFLON tape. Pipe terminals are available threaded fixing in 1 ½ " and 2".

Always leave enough space round the filter in order to perform the necessary examinations and maintenance during the filter's life.

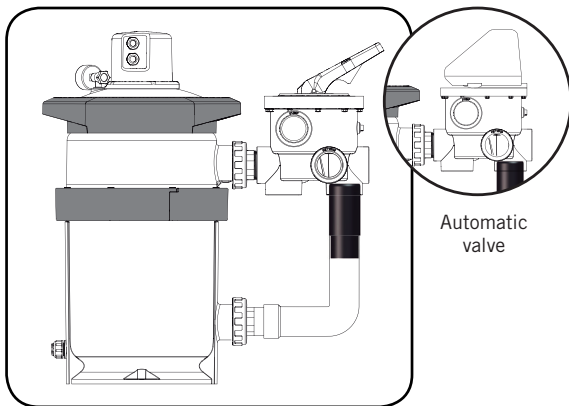
5. ASSEMBLY:

Follow these indications for a correct assembly of the filter:

- 1.- Place the filter on a horizontal and clean surface.
- 2.- Place the filter in its final position. There are three holes at the base of the filter to secure it in place. The fastenings are not supplied.
- 3.- Fit the 2" multiport valve (manual code 07444 or automatic code 57187) inside the filter, whilst ensuring that the seals between the valve and the filter are in the correct position.

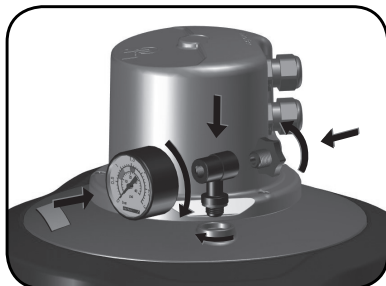
4.- Glue the sleeve (code 65289) that comes with the NanoFiber filter to the 2" connection at the bottom of the valve.

5.- Perform the three connections of the selector valve: pump piping to the valve, valve to the waste drain and valve to the pool return. Each of these three outlets is clearly identified on the valve.



- Gluing sleeve 65289 -

6.- Set the manometer T, the joint, the manometer and the air drainage (see exploded view). It is not necessary to use teflon tape, as the watertightness is guaranteed in this case by the joint. Do not tighten the manometer T with a tool, as manually will be sufficient.



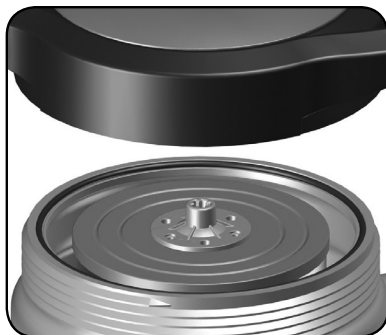
- Assembly of the manometer -

6. POSITION OF THE CARTRIDGE:

The cartridge comes properly fitted from the factory.

If you wish to remove the filter in the future, follow the steps described below:

1. Stop the filtration pump and set the valve to the Off position.
2. Open the drainage cap and release the air.
3. Unscrew and remove the cover assembly.
4. Remove the cartridge.
5. Put a new cartridge in place, check that it is well secured and that it can be turned with your hand.
6. Put the seal in place and check that it is firmly in position.
7. Screw the cover assembly back in.
8. Set the valve to the Filtration position.
9. Close the drainage cap until there is no longer any air inside the filter.



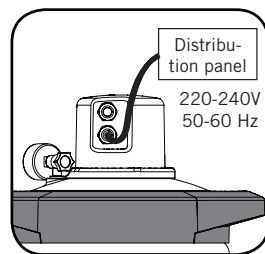
Warning: when the filter is running check that no water leaks from the lid.

Note: the manufacturer takes no responsibility for any damage to the filter when the cartridge is being changed.

7. CONNECTION:

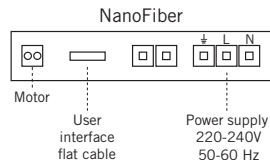
There are three types of connection depending on a facility's characteristics:

1. Connection with a manual valve (code 07444). To connect the filter using a manual valve, first remove the four upper screws and the pressure gauge so that the PCB (*Printed Circuit Board*) can be accessed. In order to connect the filter to the power supply and use the manual valve, you must remove the cable gland from the connection not used and replace it with the IP68 cap supplied with the filter. The other cable gland will be used to run the power cable through it that must be connected to the switchboard's terminal block and suitably protected using a residual-current device (30 mA) and a thermal magnetic circuit breaker sized according to the characteristics of the installation and the regulations that apply in your country.

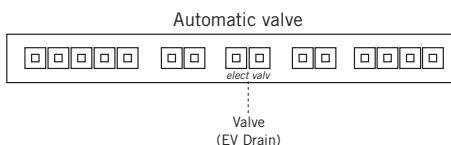
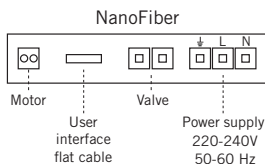


To enable it, place your finger on the touch panel for a maximum of 20 seconds, following which it will switch off automatically.

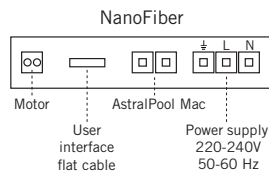
If you prefer, you can press the button twice and the filter will automatically turn for 40 seconds. If you wish to stop it from working before the 40 seconds are up, press the button twice once again.



2. Connection with an automatic valve (code 57187). To connect the filter using an automatic valve, first remove the upper four screws and the pressure gauge so that the PCB (*Printed Circuit Board*) can be accessed. Connect the cables as shown in the drawing (using a screwdriver, tighten the tab so that the cable can be threaded through or out of the hole). The connection to the valve should be parallel to the electrovalve's drainage signal (5 - 24 V AC/DC self-limited to 20 mA). The power connection should be done as described in the previous section.



3. Connection to AstralPool MAC. To connect the filter to AstralPool MAC, first turn off the power of all units and remove the four screws from the upper lid and the pressure gauge so that the PCB (*Printed Circuit Board*) can be accessed. Connect the cables as shown in the drawing (using a screwdriver, tighten the tab so that the cable can be threaded through or out of the hole). The connection to AstralPool MAC should be parallel to electrovalve's drainage (EV DRAIN). To carry out this by-pass, it is preferable to use the APMac Connection Kit (ask your dealer for details). The power supply should NOT run through the APMac, but through the switchboard instead using suitably protected wiring as described above in this manual.



IMPORTANTE:

- The multiple disconnection device must be used with a separation of at least 3 mm between contacts in order to disconnect the power pack.
- Use a rigid cable as a network connection. If a flexible cable is used for the network connection, terminals must be used for connecting it to the terminals of the unit's electric circuit.
- The unit should be connected to a socket (see the unit's characteristics on the label) with an earth connection, protected by a residual-current device (RCD) with a residual working current set to no more than 30 mA.
- Check that the unit's earth cable is properly placed and connected.
- Ensure that the installation and electrical connections are fit for purpose, otherwise the unit's manufacturer will decline all liability and consider the warranty to be invalid.
- There may be special regulations for the installation.
- Danger of electrocution in the event of an unsuitable network connection.
- The network cable must be connected by a qualified and authorised expert.
- For 230 V use an H07 RN-F3 type power cable and adapt the section of the unit's power cable and its length.

- If the power cable becomes damaged, it must be replaced by the manufacturer, your after-sales service engineer or a similarly qualified person in order to avoid hazards.

8. START-UP:

The first time, proceed as follows:

1. Open the air bleed cap to blow out the air.
2. Place the selector valve in the "FILTER" position, **only in installations with manual valve.**
3. Open the valves controlling the swimming pool suction pipes.
4. Close the air bleed cap when water starts to come out.
5. Run the pump and the filter will be ready to start the filtering cycles for the water in the swimming pool.

IMPORTANT: The pump should be switched off when the position of the selector valve handle is being changed.

9. FILTRATION:

OPERATIONS TO BE PERFORMED ONLY IN INSTALLATIONS WITH MANUAL VALVE.

With the pump switched off, place the handle of the selector valve in the "FILTERING" position.

Switch on the pump.

When starting up for the first time, read the pressure of the pressure gauge. It is recommended to take note of this pressure, as later it will be used to know whether the filter is dirty and if "WASHING" is required. "WASHING" should be done when the pressure gauge indicates an increase of 0.5 kg/cm^2 with respect to the initial pressure of the filter. It is advisable to observe the pressure gauge from time to time as this indicates the degree of saturation of the filter.

Bear in mind that the valves at the bottom of the pool and the skimmers will be adjusted according to the amount of floating particles on the surface of the water. The main drain and skimmer valves will be regulated according to the quantity of floating material found on the surface of the water. Bear in mind that with the main drain valve fully open there will be little suction from the skimmers. If the surface sweep of the skimmers is to be stronger, reduce the flow from the main drain.



Example:



$0,8 \text{ kg/cm}^2$: Initial pressure of the filter at the start of a filtering cycle.



$1,3 \text{ kg/cm}^2$: The pressure is 0.5 kg/cm^2 more than the initial pressure, indicating that WASHING is required.

Note: the initial operating point will depend on the design of the installation and the flow rate used.

BACKWASH:

When the pressure has reached 0.5 kg/cm^2 above the initial pressure setting, this means that the cartridge cannot take in any more dirt and must be backwashed in the following way:

The multiport valve should be set to the Backwash position. Open the sump and non-return valves, and switch the pump on. To enable it, place your finger on the touch panel for a maximum of 20 seconds, following which it will switch off automatically. If you prefer, you can press the button twice and the filter will automatically turn for 40 seconds. If you wish to stop it from working before the 40 seconds are up, press the button twice once again.



Following this operation, all of the dirt obstructing the cartridge will have been poured into the drainage pipe.

RECIRCULATE:

In this position, the selector valve allows the water from the pump to go directly to the swimming pool without passing through the inside of the filter.

WASTE:

If the swimming pool needs to be drained, this can be done using the filter pump. In order to do this, the selector valve should be in the “WASTE” position. The motor is run with the main drain valve fully open, for the pump to have sufficient suction. For the pump to suction, keep the prefilter and the main drain pipes full of water.

Before drainage, make sure that the skimmer valves and the bottom cleaner valves are closed.

RINSE:

After the carrying out the “BACKWASH” operation on the filter and placing the installation in the “FILTER” position, the water flowing into the swimming pool will be cloudy for a few seconds, so to prevent it from reaching the swimming pool there is a “RINSE” position for the selector valve which is operated as follows: immediately after the “BACKWASH” put the valve in the “RINSE” position and switch on the pump for 1 minute, after which the pump is switched off and the valve placed in the “FILTER” position. This position ensures that the filtered water goes directly to the drain.

CLOSED:

As its name indicates, this position is for closing off the water from the of the filter pump and it is used for opening the collector prefilter of the pump.

MAINTENANCE:

Do not use solvents for cleaning the filter, this could damage the filter, especially its finish.

Always replace the joints and pieces that may not be in good condition.

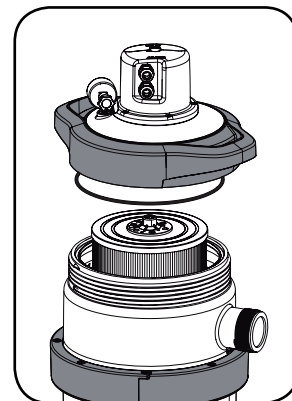
Backwash and rinse when needed, as per the instructions specified in this manual.

It's recommended to change the cartridge the filter approximately every 3 years.

CARTRIDGE ASSEMBLY:

If you replace a cartridge, you should proceed as follows. Thoroughly clean the inside of the cartridge and the seat of the seal in the cover assembly. Check that all parts are in a good state of repair, free of cracks and blemishes.

- Place the cartridge in its correct position. Gently press it downwards.
- Place the seal of the cover in its housing, subsequent to removing any traces of dirt in the housing.
- Tighten the screw on the cover as far as it will go.
- Once the cover assembly has been screwed in, follow the instructions in the Start-up section.



10. WINTERISING:

At the end of the bathing season, it is recommended that the filter be emptied to prevent damage to its components. To do so, follow these steps:

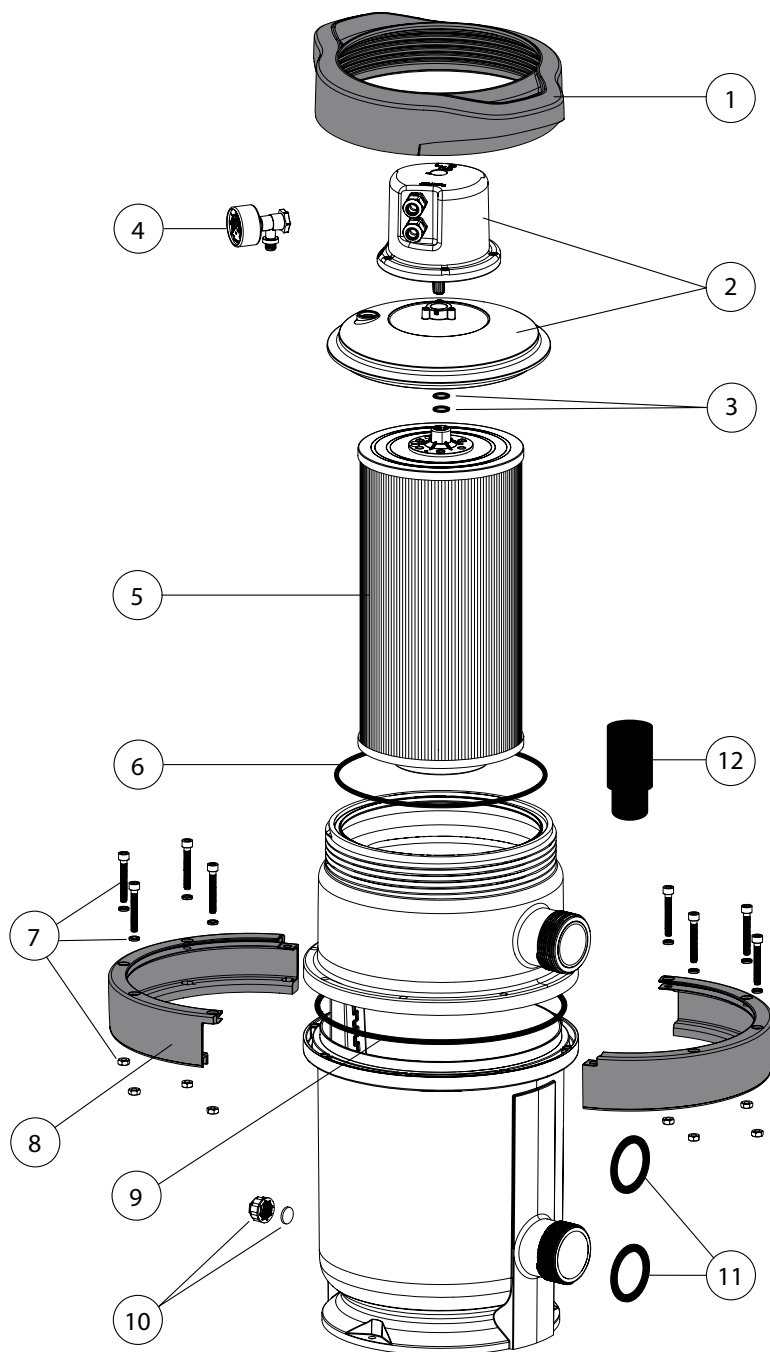
- Stop the pump.
- Close the valves of the suction and discharge pipes in order to isolate the filter.
- Open the drainage cap of the pressure gauge on top of the filter.
- Open the pressure gauge at the bottom of the filter.
- Empty the filter completely.
- Disassemble the filter.
- Clean all dirt from inside the filter.
- Clean the cartridge if necessary using a hose.
- Store the cartridge in a dry place protected from frost.
- Cover the filter with a bag to protect it from water and sunlight.
- Empty all pipes to prevent them from bursting due to freezing.

11. TROUBLESHOOTING:

PROBLEM	CAUSE	SOLUTION
Low filtration flow rate	Pump prefilter dirty	Clean the prefilter
	Cartridge dirty	Clean the cartridge
	Pipe blocked	Check valves, piping, etc.
	Pump motors turn the wrong way round	Change the direction of rotation
Pulsation of the pressure gauge	Air is entering the pump	Repair any possible leaks
	Suction valve not fully open	Open the suction valves
Rapid pressure increase	Cartridge dirty	Clean the cartridge
	Algae in the pool	Chemical treatment of the water
	Cartridge dirty that has been used flocculant	Remove the filter cartridge and clean with pressure hose
Water not clean enough	Chemical treatment unsuitable	Change chemical treatment
	Cartridge dirty	Clean the cartridge

12. SAFETY WARNINGS:

- The persons who are in charge of assembly should have the required qualifications for this type of work.
- Comply with the current standards regarding accident prevention.
- In this regard, the UNE-EN 60335-2-41 standards must be observed: Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps.
- NEVER start up the system without water.
- NEVER allow children or adults to sit on the system.
- Do NOT connect the filter directly to the water network, as the pressure of the water may be too high and exceed the maximum work pressure allowed by the filter.
- Do NOT use the filtering circuit to fill and adjust the water level of the pool. A handling error may lead to overpressure in the filter.
- Do NOT clean the lid with solvents, as it may damage its properties (finish, transparency ...).
- As all the connections are made with joints, it is not necessary to tighten the nuts excessively in order to avoid that some plastic pieces could break.
- Do NOT use teflon in the T-part of the pressure gauge Kit, code 00545R0300, to ensure sealing.
- Do NOT use chemicals in powder form to treat the pool water as the filter could block up.



ENGLISH

ID.	CODE	DESCRIPTION	NanoFiber 150	NanoFiber 180	NanoFiber 200	Q.
1	64837-0013	Upper thread	X	X	X	1
2	67509	Cover assembly	X	X	X	1
3	8070155026	O-ring seal shaft	X	X	X	2
4	64837-0550	Pressure gauge	X	X	X	1
5	64837-0150	NanoFiber 150 cartridge	X			1
5	64837-0180	NanoFiber 180 cartridge		X		1
5	64837-0200	NanoFiber 200 cartridge			X	1
6	77A2975070	Cover seal	X	X	X	1
7	64837-0540	Fastenings	X	X	X	1
8	64837-0003	Flange	X	X	X	2
9	64837-0015	Flange seal	X	X	X	1
10	64837-0530	Drainage cap assembly	X	X	X	1
11	00544-0106	Flat connection seals	X	X	X	2
12	65289	Adaptor sleeve	X	X	X	1

FRANÇAIS

ID.	CODE	DESCRIPTION	NanoFiber 150	NanoFiber 180	NanoFiber 200	Q.
1	64837-0013	Vis supérieure	X	X	X	1
2	67509	Ensemble couvercle	X	X	X	1
3	8070155026	Joint torique axe	X	X	X	2
4	64837-0550	Manomètre	X	X	X	1
5	64837-0150	Cartouche NanoFiber 150	X			1
5	64837-0180	Cartouche NanoFiber 180		X		1
5	64837-0200	Cartouche NanoFiber 200			X	1
6	77A2975070	Joint du couvercle	X	X	X	1
7	64837-0540	Boulonnerie	X	X	X	1
8	64837-0003	Bride	X	X	X	2
9	64837-0015	Joint bride	X	X	X	1
10	64837-0530	Ensemble bouchon de purge	X	X	X	1
11	00544-0106	Joints planches de branchements	X	X	X	2
12	65289	Manchon adaptateur	X	X	X	1

ESPAÑOL

ID.	CÓDIGO	DESCRIPCIÓN	NanoFiber 150	NanoFiber 180	NanoFiber 200	Q.
1	64837-0013	Rosca superior	X	X	X	1
2	67509	Conjunto Tapa	X	X	X	1
3	8070155026	Junta torica eje	X	X	X	2
4	64837-0550	Manómetro	X	X	X	1
5	64837-0150	Cartucho NanoFiber 150	X			1
5	64837-0180	Cartucho NanoFiber 180		X		1
5	64837-0200	Cartucho NanoFiber 200			X	1
6	77A2975070	Junta Tapa	X	X	X	1
7	64837-0540	Tornillería	X	X	X	1
8	64837-0003	Brida	X	X	X	2
9	64837-0015	Junta brida	X	X	X	1
10	64837-0530	Conjunto tapon purga	X	X	X	1
11	00544-0106	Juntas planas de conexiones	X	X	X	2
12	65289	Manguito adaptador	X	X	X	1

UK	PRODUCT :	NanoFiber Fiber Auto	CODE :	67355 - 67356 - 67357 - 67509
F	PRODUCT :	Filtre NanoFiber Auto	CODE :	67355 - 67356 - 67357 - 67509
ES	PRODUCTO :	Filtro NanoFiber Auto	CÓDIGO :	67355 - 67356 - 67357 - 67509
IT	PRODUCT :	Filtro NanoFiber Auto	CODICE :	67355 - 67356 - 67357 - 67509
DE	PRODUCT :	NanoFiber-Filter Auto	ARTIKEL N°:	67355 - 67356 - 67357 - 67509
PO	PRODUCT :	Filtro NanoFiber Auto	CODIGO :	67355 - 67356 - 67357 - 67509

DECLARATION CE OF CONFORMITY

The products listed above are in compliance with:

- Directive 2006/95/EC, on electrical equipment designed for use within certain voltage limits.
- Directive 2006/42/EC, on machinery.
- Directive 1997/23/EC, on pressure equipment.
- Directive 2014/30/EU, on electromagnetic compatibility.
- European Standards:

UNE-EN ISO 12100. Safety of machinery. General principles for design. Risk assessment and risk reduction.

UNE-EN 55014-1. Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Part 1. Issue.

UNE-EN 55014-2. Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Part 2. Immunity.

UNE-EN 60335-1. Household and similar appliances. Safety. Part 1. General requirements.

UNE-EN 60335-2-41. Household and similar appliances. Safety. Part 2-41. Specific requirements for pumps.

UNE-EN 61000-3-2. Electromagnetic compatibility. Part 3-2. Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).

UNE-EN 61000-3-3. Electromagnetic compatibility. Part 3-3. Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection.

DÉCLARATION CE DE CONFORMITÉ

Les produits énumérés ci-dessus sont conformes à:

- Directive 2006/95/CE, relative au matériel électrique destiné à être employé dans certaines limites de tension
- Directive 2006/42/CE, relative aux machines
- Directive 97/23/CE, concernant les équipements sous pression
- Directive 2014/30/UE, concernant la compatibilité électromagnétique
- Réglementation européenne:

UNE-EN ISO 12100 Sécurité des machines - Principes généraux de conception - Appréciation du risque et réduction du risque

UNE-EN 55014-1 Compatibilité électromagnétique - Exigences pour les appareils électrodomestiques, outillages électriques et appareils analogues

- Partie 1 : Émission

UNE-EN 55014-2 Compatibilité électromagnétique - Exigences pour les appareils électrodomestiques, outillages électriques et appareils analogues

- Partie 2 : Immunité

UNE-EN 60335-1 Appareils électrodomestiques et analogues - Sécurité - Partie 1 : Exigences générales

UNE-EN 60335-2-41 Appareils électrodomestiques et analogues - Sécurité - Partie 2-41 : Règles particulières pour les pompes

UNE-EN 61000-3-2 Compatibilité électromagnétique - Partie 3-2 : Limites - Limites pour les émissions de courant harmonique (courant appelé par les appareils ≤ 16 A par phase)

UNE-EN 61000-3-3 Compatibilité électromagnétique - Partie 3-3 : Limites - Limitation des variations de tension, des fluctuations de tension et du papillotement dans les réseaux publics d'alimentation basse tension, pour les matériels ayant un courant assigné ≤ 16 A par phase et non soumis à un raccordement conditionnel

DECLARACIÓN CE DE CONFORMIDAD

Los productos arriba enumerados se hallan conformes con:

- Directiva 2006/95/CE, sobre el material eléctrico destinado a utilizarse con determinados límites de tensión
- Directiva 2006/42/CE, sobre Máquinas.
- Directiva 97/23/CE, sobre Equipos a presión.
- Directiva 2014/30/UE sobre compatibilidad electromagnética.
- Normativa Europea:

UNE-EN ISO 12100 Seguridad de las máquinas. Principios generales para el diseño. Evaluación del riesgo y reducción del riesgo.

UNE-EN 55014-1 Compatibilidad electromagnética. Requisitos para aparatos electrodomésticos, herramientas eléctricas y aparatos análogos.

Parte 1. Emisión.

UNE-EN 55014-2 Compatibilidad electromagnética. Requisitos para aparatos electrodomésticos, herramientas eléctricas y aparatos análogos.

Parte 2. Inmunidad.

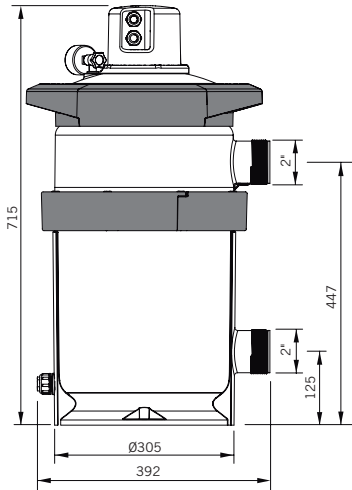
UNE-EN 60335-1 Aparatos electrodomésticos y análogos. Seguridad. Parte 1. Requisitos generales.

UNE-EN 60335-2-41 Aparatos electrodomésticos y análogos. Seguridad. Parte 2-41. Requisitos particulares para bombas.

UNE-EN 61000-3-2 Compatibilidad electromagnética. Parte 3-2: Límites. Límites para las emisiones de corriente armónica (equipos con corriente de entrada ≤ 16 A por fase).

UNE-EN 61000-3-3 Compatibilidad electromagnética. Parte 3-3: Límites. Límites de las variaciones de tensión, fluctuaciones de tensión y flicker en las redes públicas de suministro de baja tensión para equipos con corriente asignada ≤ 16 A por fase y no sujetos a una conexión condicional.

- TECHNICAL CHARACTERISTICS
- CARACTERISTIQUES TECHNIQUES
- CARACTERÍSTICAS TÉCNICAS
- DATI TECNICI
- TECHNISCHE ANGABEN
- CARACTERISTICAS TECNICAS



Description	Filter NanoFiber		
	67355	67356	67357
Flow / Débit / Caudal / Portata / Leistung / Caudal	10 m³/h	14 m³/h	18 m³/h
Filtration area / Surface filtration / Superficie de filtración / Filteroberfläche / Superficie de filtração	4,5 m²	5,2 m²	6,0 m²
Máximum working presure / Pression maximale de travail / Presión de trabajo máx. / Max. pressione di lavoro / Max arbeitsdruck / Pressao maxima de trabalho	2,5 kg/cm²		
Rated voltage / Tension nominale / Tensión nominal / Tensione nominale / Anschlussspannung / Tensão nominal	220-240V 50-60 Hz		
Standby consumption / Consommation en standby / Consumo en standby / Consumo in stand-by / Verbrauch in Standby / Consumo em standby	0,3W (1,1VA)		
Max. power / Puissance max./ Potencia máx. / Potenza massima / Max. leistung / Potência máx.	8W		
Protection / Protección / Protection / Schutz / Protezione / Protectie / Protecção	IP55		
Weight / Poids / Peso / Peso / Gewicht / Peso	10,4 kg.		

***67509**
Kit adaptación Auto para las versiones no Auto
Auto adaptor kit for non-auto versions

Made in Spain
 Sacopa, S.A.U.
 Pol. Ind. Poliger Sud – Sector I
 17854 Sant Jaume de Llierca (Spain)

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