



INDUSTRIAL GROUP

AQUARIUS

SAND FILTER FOR SWIMMING POOLS

USE AND MAINTENANCE HANDBOOK



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AQUA S.P.A reserves to change or integrate this handbook in order to improve the product.

SUMMARY

1	GENERAL PREFACTION	3
1.1	IDENTIFICATION MANUFACTURER'S DATA	3
2	WARRANTY GENERAL RULES	4
3	GLOSSARY OF THE USED TERMS.....	4
4	RULES OF REFERENCE.....	5
5	EQUIPMENT DESCRIPTION	5
5.1	PARTICULARS AND FUNCTION.....	5
5.2	EQUIPMENT'S OVERALL VIEW	5
5.3	STRUCTURAL DATA AND TECHNICAL CHARACTERISTICS	6
5.4	EQUIPMENT'S TECHNICAL CHARACTERISTICS	6
6	RISKS CONNECTED TO THE EQUIPMENT.....	6
6.1	UNIVERSALITY.....	6
6.2	CONNECTED RISKS.....	7
6.3	RISKS FOR AN INCORRECT USE.....	7
6.4	RESIDUAL RISKS.....	7
7	SIGNS STICKED ON THE EQUIPMENT.....	7
8	TRANSPORT AND INTERNAL MOVING	8
9	INSTALLATION	8
9.1	NORMAL WORKING	8
9.2	STORAGE.....	8
9.3	STARTING.....	9
9.4	REFILLING.....	9
9.5	FILTER CLOSING.....	10
9.6	STARTING.....	10
9.7	WORKING.....	10
9.8	FILTRATION.....	11
9.9	BACKWASH	11
9.10	RINSING.....	11
9.11	WASTE	11
9.12	CIRCULATION	11
9.13	LOCK.....	11
9.14	WINTER	11
10	ORDINARY AND PREVENTIVE MAINTENANCE.....	11
10.1	UNIVERSALITY	11
10.2	ORDINARY MAINTENANCE.....	12
11	DRAINING.....	12
12	PROHIBITIONS	13
13	MAINTENANCE OPERATION BOOK.....	13
14	COMPONENTS CARD.....	14

1 GENERAL PREFACTION

This use and maintenance handbook is a document issued by **AQUA SPA**. It is to be considered an **integrating part of the product** for its lifetime, even in case of cession to a third party, until its demolition and draining.

All rights of reproduction and spreading of this handbook and of the enclosed documentation, are reserved to **AQUA s.p.a**

The products described in the this handbook are patented. Every reproduction, even if it is partial, is forbidden.

The aim of this handbook emitted by **AQUA s.p.a** is to:

- ↪ supply operators and maintenance men with all the instructions and warnings necessities to work safely ;
- ↪ allow the user to use the equipment in a safe and proper way and to maintain the goods in a state of good efficiency and security;

1.1 IDENTIFICATION MANUFACTURER'S DATA

AQUA S.p.A.

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Declares to be the manufacturer and referent of the equipment for eventual operations of technical maintenance assistance and/or changing of the equipment described in this handbook.

- ↪ If the explanations reported here are considered not clear or incomplete and if one or more parts of the handbook are not perfectly comprehensible, it is necessary to address to the manufacturer so as to obtain all the necessary additional indications and/or information.
- ↪ The manufacturer engages himself, if necessary, to supply a new handbook enriched with the agreed clarifications.
- ↪ In order to obtain the best performance from the products, it is recommended to follow carefully the instructions kept in this handbook, which should be read carefully in every single part.
- ↪ The indications concerning the use of the equipment should be executed in an absolute and precise way according to what is specified hereafter. In this way the inconveniences caused by a non observance of the rules can be avoided. This handbook is technical, so it is an exclusive property of **AQUA s.p.a** whom reserves all rights; every reproduction of this handbook, even if in part or partial, is forbidden by the law.



ATTENTION:

It is not allowed a use of the equipment in different configurations from what is here reported or different working installations from what established and advised by the manufacturer .

Different, improper, and/or a non correct use regarding the mentioned indications of installation and use present in this handbook make all the manufacturer's responsibility no longer valid.

2 WARRANTY GENERAL RULES

- ↪ **AQUA s.p.a** guarantees that the equipment has been designed, manufactured and built in respect of the rules in force, in particular with regards to safety rules.
- ↪ The WARRANTY has a duration from the date of invoicing of AQUA S.p.a and fully covers the parts deemed expiring due to materials, incorrect design or construction, at the discretion of the manufacturer.
- ↪ **AQUA s.p.a** is not responsible for any kind of damages caused by the purchaser during the warranty period and doesn't take any responsibility for the work done outside the term of this warranty.
- ↪ Are **excluded** from the WARRANTY:
 - a) *water connection ;*
 - b) *electricity connection;*
 - c) *costs for the transfer of **AQUA s.p.a** technicians.*
- ↪ Are also excluded from the warranty the defects owing to:
 - a) *Natural usury;*
 - b) *Inappropriate use and/or collisions to the unities which constitute the equipment;*
 - c) *Bad management and non-observance of the maintenance rules*
- ↪ The warranty is void if the equipment is utilized and installed outside the limits established by the standard working conditions given by the manufacturer, even if shortly after installation of the product itself.
- ↪ The warranty can not be applied if changes are done after to the installation which have not been authorized or approved by the manufacturer for the said equipment and in case of incorrect accessories used for the products itself
- ↪ Any tampering and/or damage created to the equipment will make immediately the WARRANTY VOID and release the manufacturer from any responsibility.
- ↪ There is no compensation for any real and/or hypothetical damages caused by a non-performance deriving from the equipment's malfunctioning. .

3 GLOSSARY OF THE USED TERMS

We refer to the table enclosed for what concerns the general definitions of the single equipment's components.

it is defined *INCORRECT USE* the use of the equipment outside the limits specified by this handbook.

Only qualified and authorized staff, competent technicians and installers, are allowed to carry out the following activities:

- installation and start up;
- removal and demolition;
- regulation & setting
- maintenance and repair;

4 RULES OF REFERENCE

A classification of the pressure equipment has been executed according to the 97/23/CE PED directive since it has been submitted to a pressure higher than 0,5 bar.
The filter is also conform to UNI 10637:2015 and UNI EN 16713-1.

5 EQUIPMENT DESCRIPTION

5.1 PARTICULARS AND FUNCTION

This equipment is used for the water treatment of the pool for human bathing. The aim is to guarantee the filtration and to keep suspended matter not withheld by the traditional filters baskets installed up stream of the system.

The **AQUA s.p.a** sand filter has been manufactured to hold materials and suspended matter of 0,4 mm and 0,8 mm in size.

The principle of function is that of trapping suspended matter by making the treated water flow through the filtering material situated inside the filter.

5.2 EQUIPMENT'S OVERALL VIEW



EQUIPMENT'S PICTURE

5.3 STRUCTURAL DATA AND TECHNICAL CHARACTERISTICS

The main indications concerning the equipment's characteristics are given hereafter.

5.4 EQUIPMENT'S TECHNICAL CHARACTERISTICS

The dimensions, the bulks, the connection dimensions and the weights of the different filters are reported on the component cards enclosed at the end of this handbook - picture 13.1 –

Filters should operate only with:

- aqueduct or ground water
- seawater;
- water mixed with sodium hypochlorite in compliance with the UNI 901:2002 rule in a solution of max 0,2 mg/l (2 ppm).

The equipment can be submitted to the working and burst pressure of:

	TIPO AQUARIUS - AQUARIUS TYPE				
UNI 16713	6 mc/h	10 mc/h	14 mc/h	22 mc/h	35 mc/h
MOP - max pressione esercizio	1,5 bar	1,5 bar	1,5 bar	1,5 bar	2,5 bar
<i>MOP - max operating pressure</i>					
Resistenza alla pressione statica	2,145 bar	2,145 bar	2,145 bar	2,145 bar	3,575 bar
<i>Resistance to static pressure</i>					
Pressione di prova ciclica	0-3 bar	0-3 bar	0-3 bar	0-3 bar	0-3 bar
<i>Cyclic test pressure</i>					
Durata prova ciclica	10000 cicli	10000 cicli	10000 cicli	10000 cicli	10000 cicli
<i>Cyclic test duration</i>	10000 cycles	10000 cycles	10000 cycles	10000 cycles	10000 cycles
Pressione di scoppio	4 bar	4 bar	4 bar	4 bar	3,75 bar
<i>Burst pressure</i>					



ATTENTION:

Before the installation check that the inlet system, connected to the filter, is provided with suitable devices which limit and prevent the overflow of the maximum pressure inside the filtration system.

The fluid temperature used by the equipment should be included in the following range:

$$T_{\min}: +5^{\circ}\text{C}$$

$$T_{\max}: +40^{\circ}\text{C}$$



ATTENTION:


If it is provided that the fluid temperature can go below the freezing point, isolate the equipment from the inlet system connected to it and empty it, according to the conditions specified in the maintenance section.

6 RISKS CONNECTED TO THE EQUIPMENT

6.1 UNIVERSALITY

For its own conformation, for its structural prerogatives and for the work that should be accomplish, the equipment shows some not eliminable risks hereafter described.

6.2 CONNECTED RISKS

Reference	Risk	sign	danger location	remedy
1	Fluids' projection		Zone surrounding the equipment	sign

6.3 RISKS FOR AN INCORRECT USE

In addition to the risks presciently underlined, it is possible to suppose that, although it has been indicated more than once how to behave properly to limit the risks, there could be situations of anomalous behaviour (incorrect use).

The risks caused by an incorrect use and their prevention are summarized in the following table.

Incorrect use	Risk	Prevention
Incorrect insertion of the filtering material	Malfunction, saturation of the filtering mass, gas formation	Information on the handbook
Not suitable treatment with fluid	Malfunction, saturation of the filtering mass, gas formation	Information on the handbook
Treatment of a part or all equipment with chemicals	Weakening and/or structure' slough	Information on the handbook
Instable positioning	upsetting	Information on the handbook
Lid's opening while the equipment is on pressure	flooding, parts projection	Information on the handbook

6.4 RESIDUAL RISKS

In this way, with the application of what mentioned and arranged, we have prepared a remedy for all kind of not eliminable risks, consequently, there should be no damages. Anyway, the operator should check the absence of people in the risk zone before doing any operation.

The operator should take precautions by wearing the necessities individual protection means (gloves, glass, anti-noise devices, accident prevention shoes).

7 SIGNS STICKED ON THE EQUIPMENT

The following signs are used inside the handbook and on the machineries :

SYMBOL	EXPLANATION	SYMBOL	EXPLANATION	SYMBOL	EXPLANATION
	Generic danger		access prohibited to people not authorized		compulsory to consult the handbook



					
	compulsory to protect the respiratory tract		compulsory to protect hands with gloves		compulsory to remove the electrical connections for the maintenance

PICTURE 7.1: SIGNS LIST


8 TRANSPORT AND INTERNAL MOVING


The following specifications are to be considered:

It is recommended the use of qualified and specialized staff to move, transport and install the equipment. Moving should be executed by lifting the equipment according to the following specifications:

-  by the edge with open lid;
-  by the base;

For short moving it is possible to use a fork lift and/or manual trolley.

	ATTENTION: carry out all the operations with caution AND RISE THE EQUIPMENT BY FOLLOWING THE INDICATED ZONE
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	ATTENTION: it is necessary to follow the instructions reported in this handbook to rise and to move the equipment.
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9 INSTALLATION

9.1 NORMAL WORKING

Connection should be executed by authorized and qualified staff.

Equipment's connection should be linked to the pool system circuit.

Connection should be done by using threaded pipes union which are included in the equipment, the thread and the diameter are indicated in the components card.

Pipe union exit, included in the equipment, should be connected by a glued smooth pipe (PVC)

During the normal working, the equipment should be placed in a covered and dry area protected from the direct sunlight irradiation and from heat.

For proper working conditions, the water temperature should range between +5°C and +40°C.

The filter has a flow stream direction – which should be respected – these are indicated by the arrows situated near the pipe unions.

9.2 STORAGE

During an eventual storage the equipment should be kept in a covered and dry place.

The equipment should be protected from eventual water sprinklings, dust, humidity, collision or accidental damages.

Advisable room temperature should be included between 0°C and +50°C.

9.3 STARTING

Check carefully that the components aren't damaged because of transport collisions .

if any part is damaged or it is not in keeping with the original condition of supplying, don't make the system work and provide for the reparation or for the substitution at the assistance centre.

Check that all the filter connection pipes and the valves are closed.

9.4 REFILLING

Refill the filter by putting in the filtering material from the hole lid.

The Filter media sand used must have the following characteristics:

FILTER MEDIA	GRANULOMETRY
QUARTZ SAND and MILLED QUARTZ	0,4 ÷ 0,8 mm
	1 ÷ 2 mm
	1 ÷ 3 mm
	3 ÷ 6 mm
ZEOLITE	1 ÷ 2,5 mm
	2,5 ÷ 5 mm
DIATOMACEOUS	-
ANTHRACITE	0,8 ÷ 1,8 mm
ACTIVATED CARBON	-



ATTENTION:

Before refilling close the access hole of the centre manifold pipe which is placed just under lid.

Remove the gasket from the filter's entry.

Refill slowly the filter in accordance with the following quantities:

FILTER MODEL	MATERIAL QUANTITY
6 m ³ /h	75 Kg
10 m ³ /h	100 Kg
14 m ³ /h	150 Kg
22 m ³ /h	250 Kg
35 m ³ /h	450 Kg



ATTENTION:

At the end of the refill remove the closure used for the manifold pipe which is placed under the lid.

Afterwards fill the sand filter with water.

The refill should be done slowly by letting the water flow in every interstices inside the filtering material.

Refill should be done until the water level overflows the filter's edge.



ATTENTION:

Check that the spreading of the water in excess doesn't cause damages and that there aren't any nearby voltage and/or electric component parts present were the excess water could be in contact with.

9.5 FILTER CLOSING

- Close the filter by the lid, the gasket, the clamp, the screws and the nuts included in the equipment
- Verify that the contact surfaces are clean and eventually remove the dirt or the residual filtering material;
- Place the gasket on the filter.
- Assemble the pressure gauge on the lid in the proper hole (by the threaded hole or by the proper back nut and O-ring);
- Place the lid
- Put the clamp to close the lid and the filter top
- Place the 2 nuts in the clamp
- Close the clamp using the screws, until the two side are coincident. Do not over-screw!

9.6 STARTING

Open **slowly** the valves situated on the connection pipe.
Check that there are no water leaks.



ATTENTION:

In case of water leaks, close immediately the filter valves and proceed with an examination of the system.

9.7 WORKING

The equipment carries out the filtration of the water according to what is described in this handbook. For a good performance of the filter and for a good management of the system connected to it, there are further functions that should be considered and suggested.

By a different set up of the **multi-port valve** connected to the filter (when models are included) it is possible to carry out these other functions.

A 6 way valve has the following main working positions:

1 - filtration
2 - backwash
3 - rinsing
4 - waste
5 - circulation
6 - lock

the operating conditions of each position are described in detail hereafter

If the user intends to do the maintenance by himself, the operations should be entrusted to a qualified person able to estimate an eventual fault and restore the protections and the securities. Maintenance operations, search for faults and repairs are allowed only to qualified staff; non authorized operations make the warranty void.

10.2 ORDINARY MAINTENANCE

Equipment's maintenance is based on a sequence of operations which, if done as indicated hereafter, allows to keep the equipment in perfect working efficiency. Maintenance should be done according to the rules indicated in this handbook.

The indicated control and maintenance slots are to be considered indicative values for the exercise in normal conditions, on the base of a general use of 8 hours a day for 365 days a year. (approx. 3.000 hours/years).

Different conditions can change the maintenance's slot

The main operations are summarized hereafter:

work to be carried out	materials	daily	weekly	monthly	Every 3 months	Every 6 months	yearly	Every 2 years	more	Note
Pressure control	Manometer		X							Pressure should be lower than 1 bar. If it is higher than 0,5 bar do the backwash
Backwash	Multi-port valve position 2								X	Cycle time Max 5 minutes (check the clearness of the multiport valve's lass)
Filtering sand level	Eventually refill with material until half of the filter's high					X				Select the filter from the system, empty it by unscrewing the closing plug situated in the lower part and remove the lid. At the end screw the drain plug.
Filtering material's replacement	Filtering material							X		



ATTENTION:



During the emptying of the filter, check that the spreading of the water in excess doesn't cause damages and that there aren't any nearby voltage and/or electric component parts present were the excess water could be in contact with.

11 DRAINING

The material's waste should be done in accordance to the governing laws in force in the country where the equipment has been installed.

A waste separation should be done when a partial or complete draining is executed.

12 PROHIBITIONS

 	<p>ATTENTION:</p> <p>It is not allowed to</p> <ul style="list-style-type: none"> • Install the equipment in a non flat and horizontal surface • Install accessories not authorized by AQUA s.p.a ; • Use the equipment for operations not described in this handbook; • Use the equipment for pressure or performances higher than what mentioned in this handbook. • Allow non qualified and non trained staff use the equipment; • Non use of protection; • Change the equipment's original parts.
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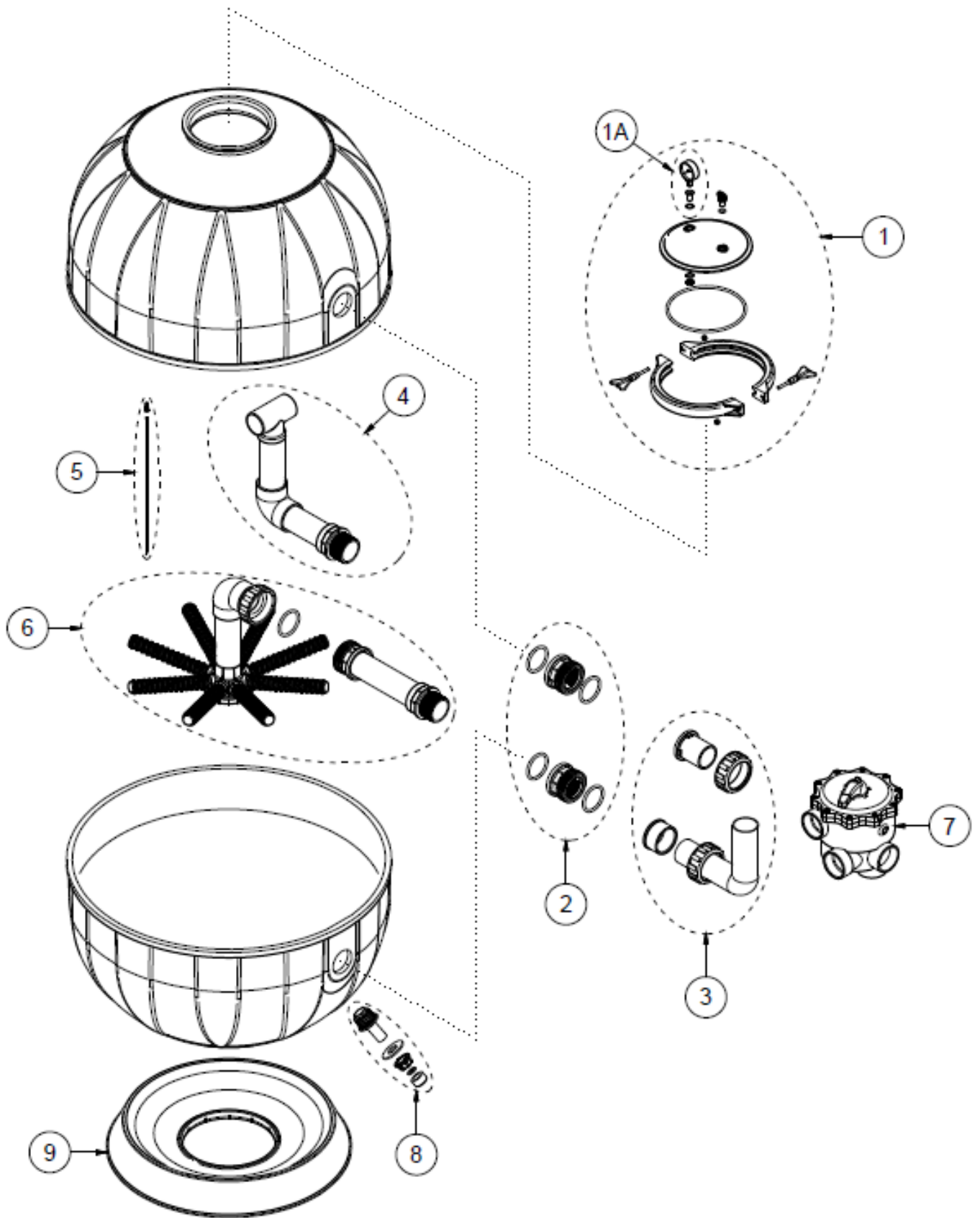
13 MAINTENANCE OPERATION BOOK

All the operations made on the filter should be reported on the enclosed book.

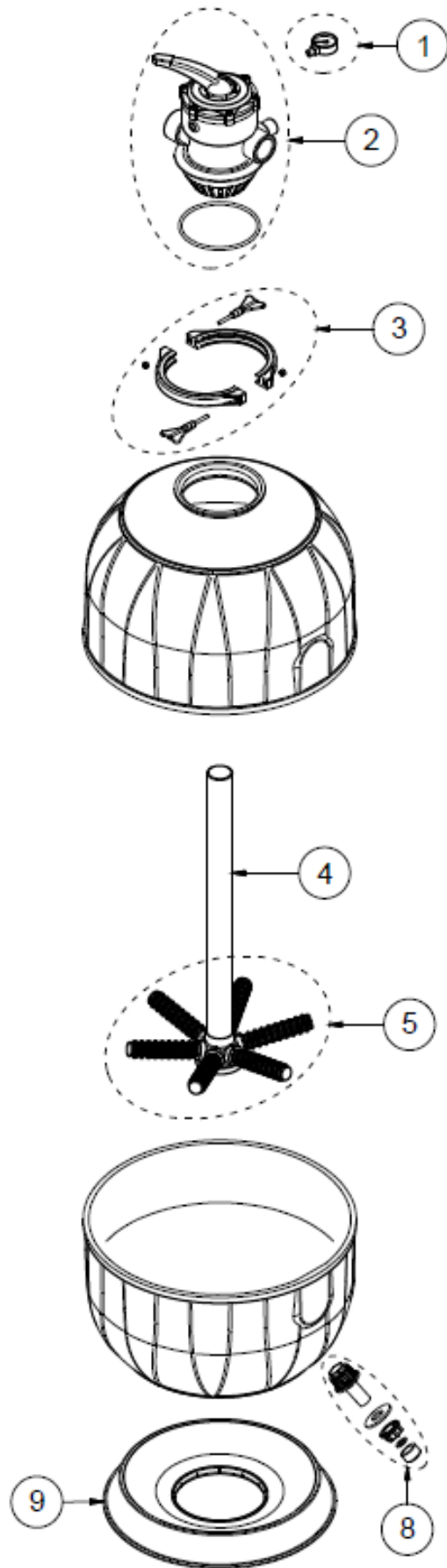
INSTALLATION'S DATE AND SELLER' STAMP	FILTER CARD		USER
	MODEL	SERIEL N.	OPERATOR

EXAMINATION OPERATION and MAINTENANCE BOOK									
Number list	ACTIVITIES'S DESCRIPTION CHECKS AND MAINTENANCE	KIND OF MAINTENANCE Ord. extra. Ver.			NOTE	MAINTENANC E DATE	HOUR S SPENT	NEXT MAINTENANC E DATE.	SIGN
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

14 COMPONENTS CARD



N°	Codice/Code	MOD.	Descrizione / Description
1	100100980	6-10-14	KIT COPERCHIO FILTRO AQUARIUS 6-10-14MC COP.BEIGE RAL9001 <i>KIT COVER AQUARIUS FILTER 6-10-14 MC COV. BEIGE RAL9001</i>
	100100990	22-35	KIT COPERCHIO FILTRO AQUARIUS 22-35 MC COP.TRASPARENTE <i>KIT COVER AQUARIUS FILTER 6-10-14 MC COV. BEIGE RAL9001</i>
1A	100101R01	6-10-14 22-35	KIT MANOMETRO FILTRI AQUARIUS 6-10-14-22-35 <i>KIT MANOMETER AQUARIUS FILTER</i>
2	100101R08	6-10-14	KIT DOPPIO RACCORDO IN-OUT FILTRI AQUARIUS 6-10-14 MC/H <i>KIT DOUBLE CONNECTION IN-OUT AQUARIUS FILTERS 6-10-14 MC/H</i>
	100101R09	22-35	KIT DOPPIO RACCORDO IN-OUT FILTRI AQUARIUS 22-35MC/H <i>KIT DOUBLE CONNECTION IN-OUT AQUARIUS FILTERS 22-35 MC/H</i>
3	100100926	6-10-14	KIT TUBI USCITA RACCORDI VALVOLA LATERALE FILTRO AQUARIUS 6-10-14MC <i>KIT OUT FOR LATERAL VALVE AQUARIUS FILTERS 6-10-14</i>
	100100934	22-35	KIT TUBI USCITA RACCORDI VALVOLA LATERALE FILTRO AQUARIUS 22-35MC <i>KIT OUT FOR LATERAL VALVE AQUARIUS FILTERS 22-35</i>
4	100100966	6	KIT TUBI SUPERIORI FILTRO AQUARIUS 6 M3/H <i>KIT UPPER PIPES AQUARIUS FILTER 6MC/H</i>
	100100928	10	KIT TUBI SUPERIORI FILTRO AQUARIUS 10 M3/H <i>KIT UPPER PIPES AQUARIUS FILTER 10MC/H</i>
	100100930	14	KIT TUBI SUPERIORI FILTRO AQUARIUS 14 M3/H <i>KIT UPPER PIPES AQUARIUS FILTER 14MC/H</i>
	100100932	22	KIT TUBI SUPERIORI FILTRO AQUARIUS 22 M3/H <i>KIT UPPER PIPES AQUARIUS FILTER 22MC/H</i>
	100100128	35	KIT TUBI SUPERIORI FILTRO AQUARIUS 35 M3/H <i>KIT UPPER PIPES AQUARIUS FILTER 35MC/H</i>
5	100101R24	6-10-14 22-35	KIT TUBO-CREPINE SFIATO ARIA FILTRI AQUARIUS/ <i>KIT TUBE-FISSERES AIR DISCHARGE AQUARIUS FILTER</i>
6	100100965	6	KIT TUBI INFERIORI FILTRO AQUARIUS 6 M3/H <i>KIT LOWER PIPES AQUARIUS FILTER 6MC/H</i>
	100100927	10	KIT TUBI INFERIORI FILTRO AQUARIUS 10 M3/H <i>KIT LOWER PIPES AQUARIUS FILTER 10MC/H</i>
	100100929	14	KIT TUBI INFERIORI FILTRO AQUARIUS 14 M3/H <i>KIT LOWER PIPES AQUARIUS FILTER 14 MC/H</i>
	100100931	22	KIT TUBI INFERIORI FILTRO AQUARIUS 22 M3/H <i>KIT LOWER PIPES AQUARIUS FILTER 22 MC/H</i>
	100100127	35	KIT TUBI INFERIORI FILTRO AQUARIUS 35 M3/H <i>KIT LOWER PIPES AQUARIUS FILTER 35 MC/H</i>
7	100100483	6-10-14	VALVOLA SELETTORIE A 6 VIE ATTACCO 1"1/2 LATERALE ABS NERA <i>ABS VALVE CONNECTION 1"1/2 LATERAL COMMAND, BLACK</i>
	100100484	22-35	VALVOLA SELETTORIE A 6 VIE ATTACCO 2" LATERALE ABS NERA <i>ABS VALVE CONNECTION 2" LATERAL COMMAND, BLACK</i>
8	100101R19	6-10-14 22-35	KIT SVUOTAMENTO FILTRI AQUARIUS <i>KIT OUT WATER AQUARIUS FILTER</i>
9	S9010200	6-10-14	BASE FILTRO "AQUARIUS" A SABBIA 6-10-14 MC/H <i>BASE SAND FILTER AQUARIUS</i>
	S9010240	22	BASE FILTRO "AQUARIUS" A SABBIA 22 MC/H <i>BASE SAND FILTER AQUARIUS 22MC/H</i>
	S9010790	35	BASE FILTRO "AQUARIUS" A SABBIA 35 MC/H <i>BASE SAND FILTER AQUARIUS 35MC/H</i>



N°	Codice/Code	MOD.	Descrizione / Description
1	AB060090	6-10-14	MANOMETRO ATTACCO RADIALE AQUARIUS / <i>MANOMETER RADIAL ATTACK AQUARIUS</i>
	100100583	6-10-14	VALVOLA SELETRICE A 6 VIE ATTACCO 1"1/2 TOP ABS NERA / <i>ABS VALVE CONNECTION 1"1/2 TOP COMMAND, BLACK</i>
3	100101R04	6-10-14	KIT SEMI-FASCETTE + VITI FILTRI AQUARIUS 6-10-14 / <i>KIT CLOSING CLAMP WITH SCREWS-NUT FOR AQUARIUS 6-10-14 MC/H</i>
4	A6070400	6	TUBO PVC NERO DN50 SP.3 H. 450 mm PER FILTRO 6 MC TOP / <i>BLACK PVC PIPE DN50 SP.3 H450 MM FOR FILTER 6 MC TOP</i>
	A6070290	10	TUBO PVC NERO DN50 SP.3 H. 595 mm PER FILTRO 10 MC TOP / <i>BLACK PVC PIPE DN50 SP.3 H595 MM FOR FILTER 10 MC TOP</i>
	A6070280	14	TUBO PVC NERO DN50 SP.3 H. 625 mm PER FILTRO 14 MC TOP / <i>BLACK PVC PIPE DN50 SP.3 H625 MM FOR FILTER 14 MC TOP</i>
5	100101R25	6-10-14	KIT COLLETTORE + CANDELETTE FILTRI AQUARIUS 6-10-14 / <i>KIT COLLECTOR+GLOW AQUARIUS FILTER 6-10-14 MC/H</i>
8	100101R19	6-10-14	KIT SVUOTAMENTO FILTRI AQUARIUS / <i>KIT OUT WATER AQUARIUS FILTER</i>
9	S9010200	6-10-14	BASE FILTRO "AQUARIUS" A SABBIA 6-10-14 MC/H / <i>BASE SAND FILTER AQUARIUS</i>



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