ENGLISH

INSIDE WATER

IW-POOL

USER'S MANUAL

ENGLISH

DICHIARAZIONE DI CONFORMITA' – DECLARATION OF CONFORMITY
DÉCLARATION DE CONFORMITÉ - DECLARACIÓN DE CONFORMIDAD
KONFORMITÄTSERKLÄRUNG

Il prodotto – The product – Le produit – El producto – Das produkt:	**IW-POOL**

Risponde alle principali caratteristiche delle seguenti direttive europee:

- **2014/30/CE del 26/02/2014** - *Armonizzazione delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica – Direttiva EMC*
- **2014/35/CE del 26/02/2014** - *Armonizzazione delle legislazioni degli Stati membri relative alla messa a disposizione sul mercato del materiale elettrico destinato a essere adoperato entro taluni limiti di tensione – Direttiva BASSA TENSIONE*
- **2011/65/UE del 08/06/2011 con successivo aggiornamento 2015/863 del 31/03/2015** – *Direttiva ROHS III*
- **2012/19/UE del 04/07/2012** – *Direttiva RAEE per i rifiuti elettrici ed elettronici*

EN

Respond to the principal features of the following European Directives:

- **2014/30/CE of 26/02/2014** - *Harmonization of the laws of the Member States relating to electromagnetic compatibility – EMC Directive*
- **2014/35/CE of 26/02/2014** - *Harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits – Low Voltage Directive*
- **2011/65/UE of 08/06/2011** with subsequent update **2015/863 of 31/03/2015** – *ROHS III Directives*
- **2012/19/UE of 04/07/2012** - *WEEE Directives for electrical and electronic waste*

FR

Est conforme aux principales caractéristiques des directives européennes suivantes:

- **2014/30/CE du 26/02/2014** - *Harmonisation des législations des États membres concernant la compatibilité électromagnétique - Directive EMC*
- **2014/35/CE du 26/02/2014** - *Harmonisation des législations des États membres concernant la mise à disposition sur le marché de matériel électrique destiné à être employé dans certaines limites de tension - Directive BASSE TENSION*
- **2011/65/UE du 08/06/2011** et amendement **2015/863 du 31/03/2015** – *Directive ROHS III*
- **2012/19/UE du 04/07/2012** – *Directive DEEE relative aux déchets d'équipements électriques et électroniques*

ES

Cumplen las principales exigencias de las siguientes directivas europeas:

- **2014/30/CE de 26/02/2014** - *Armonización de las legislaciones de los Estados miembros en materia de compatibilidad electromagnética – Directiva EMC*
- **2014/35/CE de 26/02/2014** - *Armonización de las legislaciones de los Estados miembros en materia de comercialización de material eléctrico destinado a utilizarse con determinados límites de tensión – Directiva BAJA TENSIÓN*
- **2011/65/UE de 08/06/2011** con su posterior modificación **2015/863 de 31/03/2015** – *Directiva ROHS III*
- **2012/19/UE de 04/07/2012** – *Directiva RAEE sobre residuos de aparatos eléctricos y electrónicos*

DE

Die wesentlichen Eigenschaften folgender europäischer Richtlinie erfüllen:

- **2014/30/CE vom 26/02/2014** - *Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit – EMV-Richtlinie*
- **2014/35/CE vom 26/02/2014** - *Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung elektrischer Betriebsmittel innerhalb bestimmter Spannungsgrenzen auf dem Markt – NIEDERSPANNUNGSRICHTLINIE*
- **2011/65/UE vom 08/06/2011** und ihre nachfolgende Aktualisierung **2015/863 vom 31/03/2015** – *ROHS-Richtlinie III*
- **2012/19/UE vom 04/07/2012** – *WEEE-Richtlinie über Elektro- und Elektronik-Altgeräte*

San Martino in Rio – 22th, september, 2022

Emil Anceschi

è un brand di:
AQUA SPA
Via Tonino Crotti, 1 - 42018 San Martino in Rio (RE) - Italy

ENGLISH

INDEX

1. GENERAL RULES

Carefully read the warnings listed below as they provide important information regarding the rules for installation, use and maintenance.
Please keep this manual carefully for further reference.

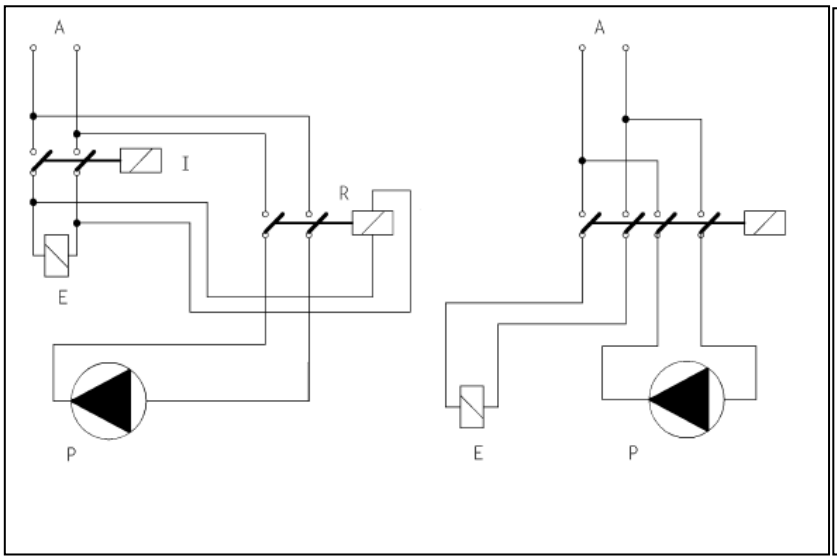
1.1 SHIPPING AND TRANSPORTING THE PUMP

The equipment must be transported in its original packaging, organized and built in such a way as to minimize shocks and to protect the protruding parts that can be damaged. If there is a need for transport after the equipment has already been installed (e.g. for a return for repair or replacement), reuse the original packaging or a sufficiently sturdy packaging with the equipment protected with absorbent material (eg bubble wrap). The external packaging must be such as to ensure the safety of the equipment in the event of a fall from 1 meter in height.

1.2 INSTALLATION STANDARDS

Install the dosing pump so that it is easily accessible whenever maintenance is required. Never obstruct the place where the dosing pump is located.
The servicing and maintenance of the dosing pump and all its accessories must always be carried out by qualified personnel.
AQUA SpA cannot be held responsible for damage to persons or things caused by poor installation or incorrect use of the dosing pump.

Check that the ground is fully functional and corresponds to the regulations in force. Make sure there is a high sensitivity differential switch (0.03 A). Check that the pump ratings are compatible with those of the mains supply. Never install the pump directly in parallel with inductive loads (eg motors / solenoid valves) but if necessary use an "insulation relay". Inside the pump there are two protections: a varistor and a fuse.



P: dosing pump

R: relay

I : Switcher or multi-pole security device

E: Motor or generally inductive charge

A: supply voltage

1.3 PROPER USE OF THE PUMP

The use of this pump must comply with the methods and instructions set out in this manual. The pump can dose chemicals that can be harmful to human health and for this reason it is essential that must be used by qualified personnel who adopt the appropriate safety methods and personal protective equipment.

AVOID IMPROPER USE of the equipment in order to avoid damage to things and people, due to uncontrolled splashes, drips, electrical contacts, etc.
The following uses can be considered improper uses, in indicative and non-exhaustive form:

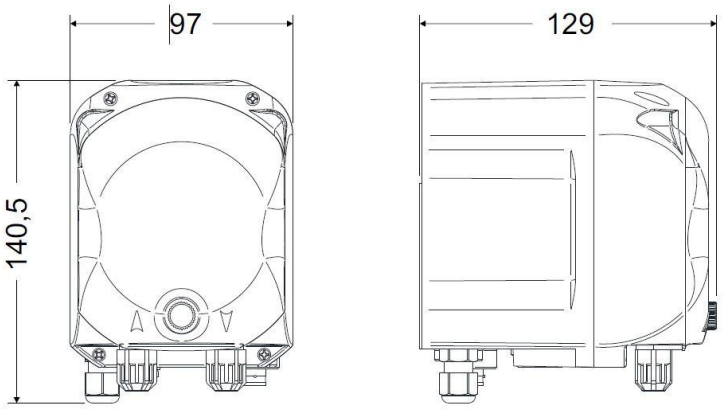
- *Dosing of products not consistent with the materials with which the pump is made;*
- *Dosing of explosive and / or flammable products;*
- *Dosing of fluids with excessive viscosity (1000 cps), such as to prevent the priming of the pump itself;*
- *Dosage of food liquids, if intended to maintain such use;*
- *Avoid inverting the pump delivery and suction;*

- *Avoid powering the pump with voltages other than those indicated in the technical specifications;*
- *Avoid connecting any equipment other than specific equipment to the signal outputs (level, pulse counter, current signal, etc.);*

2. OPERATION

The IW-DOSE digital pumps are solenoid dosing pumps designed to be controlled remotely using our software. The pumps can be connected to an external signal or a probe that measure the phisical-chemical parameters such as pH, ORP or free chlorine. The pump is also designed to connect a PT100 temperature sensor and a proximity sensor (not included in the package) to monitor the temperature and the presence of flow inside an electrode holder.

2.1 *OVERALL DIMENSIONS*



2.2 *TECHNICAL FEATURES*

Tensione di alimentazione - supply voltage - tension d'alimentation - voltaje de suministro - Versorgungsspannung	110÷230Vac 50-60Hz
Classe d'isolamento - Insulation class - Classe d'isolation - Clase de aislamiento - Isolationsklasse	CLASSE II
Potenza assorbita - Absorbed power - Pouvoir absorbé - Potencia absorbida - Absorbierte Leistung	(230Vac) min 13W - max 35W (110Vac) min 18W - max 44W
Grado di protezione - Protection degree - Degré de protection - Grado de protección - Schutzgrad	IP 65

THIS UNIT MUST BE INSTALLED BY SPECIALIZED PERSONNEL. CAREFULLY FOLLOW THE INSTRUCTIONS OF THE USER MANUAL.

THE EQUIPMENT, SUBJECT TO THIS DOCUMENT, ARE NOT INTENDED TO BE INSTALLED AND USED IN EXPLOSIVE ATMOSPHERE ENVIRONMENTS. IT ISN'T AN ATEX PUMP.

2.3 *HYDRAULIC FEATURES*

FLOW RATE	PRESSURE	ABSORBED POWER	HOSE MATERIAL
l/h	**bar**	Watt	
6	1	15	Santoprene®

The above data refer to tests carried out with water at room temperature.
Values can fluctuate by 10%.
Chemicals with viscosity different than water may also have significant variations on the flow rate.

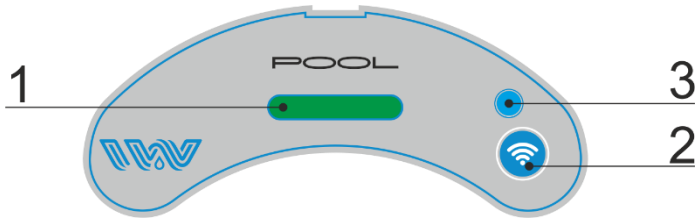
2.4 *CONTENT OF THE PACKAGE (Standard version)*

- *IW-POOL pump*
- *Quick Start Guide*
- *Injection valve PP-VL-VT*
- *Foot filter PP-VL--VT*
- *4 meters PVC transparent tube*
- *Fixing bracket*
- *Set of screws and plugs for wall mounting*

3. IW-POOL / IW-POOL pH(Rx)

3.1 GENERIC PUMP CONTROLS

The control panel of the IW-POOL pump is composed of a pump state leds (1) a multi-function button (2) which allows you to perform different actions and a led linked to the button functions. The figures below, show what the control panel looks like:



1. Pump state leds;
2. Multi-function button;
3. Led functions

3.2 MEANING OF THE PUMP STATE LEDS

		Pompa in funzione • Pump running • Pompe en fonctionnement • Bomba en funcionamiento • Pumpe in Funktion
		Stand-by
		Inhibit
		Allarme • Alarm • Alerte • Alarma • Warnung
		Stand-by fuori fascia oraria • Out of time stand-by • hors créneau horaire stand-by • stand-by fuera de horario • außerhalb der Stunde stand-by
		Aggiornamento firmware in corso • Firmware update in progress • Mise à jour du firmware en cours • Actualización de firmware en curso • Firmware Update in Arbeit
		Mancanza flusso • No flow • Manque de circulation • Falta de flujo • Fehlende Bereitstellung von Strom
		Ritardo allarme di livello • Level alarm delay • Délai d'alarme de niveau • Retardo de alarma de nivel • Level Alarm Verzögerung

Led rotanti / Rotating LEDs / Leds rotatives / Led giratorios / Rotierende Leds

Led lampeggianti / flashing LEDs / Leds clignotantes / Led intermitente / Blinkende LED'sotierende Leds

Dissolvenza / Fade out / Fondu / Desvanecimiento / Ausgeblendet

3.3 *MEANING OF THE MULTI-FUNCTION BUTTON AND LED*

The pump is equipped with a button (2) which has the following functions:

- *If it is pressed for more than 5 seconds, the pump switches to "access point" mode (flashing white LED);*
- *If pressed between 1 and 2 seconds:*
  stand-by is activated/deactivated;
  if the pump is in OFA alarm, this is reset;
- *If it is pressed for a period of between 20 and 30 seconds, the factory settings of the access password are reset (fixed yellow LED);*

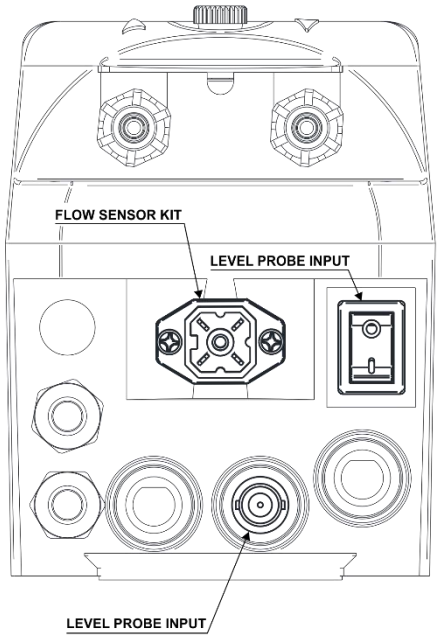
	✳	Attesa connessione al router • Waiting for router connection • En attente de connexion au routeur • Esperando la conexión del enrutador • Warten auf Router-Verbindung
	●	Connesso al router • Connected to router • Connecté au routeur • Conectado al enrutador • Mit Router verbunden
	✳	Attesa connessione al cloud • Waiting for cloud connection • En attente de connexion au cloud • Esperando conexión a la nube • Warten auf Cloud-Verbindung
	●	Connesso al cloud • Connected to the cloud • Connecté au cloud • Conectado a la nube • Mit der Cloud verbunden
	✳	Il dispositivo non risponde • The device is not responding • L'appareil ne répond pas • El dispositivo no responde • Das Gerät antwortet nicht
	●	Dispositivo in fase di inizializzazione • Device being initialized • Appareil en cours d'initialisation • Dispositivo siendo inicializado • Gerät wird initialisiert

5. ELECTRICAL CONNECTIONS

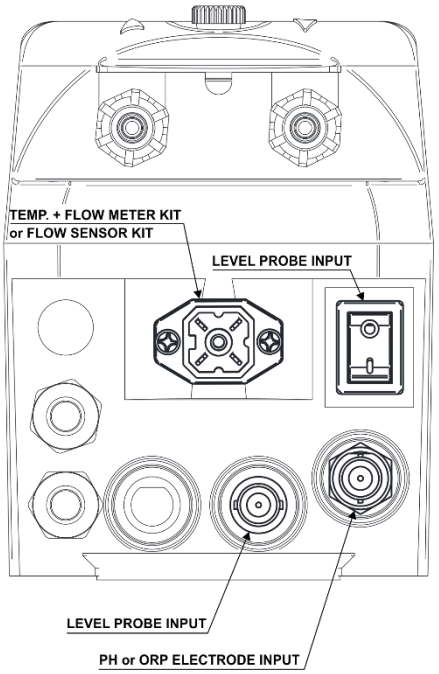
5.1 IW-POOL / IW-POOL pH(Rx) pumps

There are several connectors on the bottom of the pump depending on the model of it, these allow the connection of an external signal or a connection of a pH / ORP electrode. The pump is also equipped with a BNC connector for connecting a level probe (not included in the package).

IW-POOL



IW-POOL pH(Rx)



6. TROUBLESHOOTING

The peristaltic pump is a relatively robust device, therefore the chances of mechanical failures are low. Sometimes chemical leaks may occur from nipples or loose hose nuts or simply due to breakage of the peristaltic hose. If one of the above cases occurs, user has to first disconnect the unit from the power supply, then replaces the damaged part, cleans the unit from any chemical leaks, replace any damaged parts then restart the pump.

6.1 PROBLEM – CAUSE – SOLUTION

Below are listed some of the problems that may occur, the causes and solutions

PROBLEM	POSSIBLE CAUSE	SOLUTION
The pump does not switch on	The pump is not powered	Connect the pump to the mains.
	The protection fuse is blown up.	Replace the fuse.
	The electronic board is damaged	Replace the electronic board.
The peristaltic pump does not dose but the electric motor is working	The foot filter is obstructed.	Clean the foot filter.
	The suction tube is empty, the pump is not primed.	Repeat the priming procedure.
	Air bubbles in the hydraulic circuit.	Check nipples and hoses
The pump does not dose and the electric motor does not works orruns hard.	Crystals formation, valve occlusion.	Clean the valves and try to circulate water instead of the chemical product.
	The injection valve is obstructed	Replace the injection valve

7. MAINTENANCE

7.1 CLEANING THE PUMP

The pump must be periodically cleaned in order to ensure its efficiency. We suggest to carry out regular cleaning during maintenance period.
Before carrying out any maintenance or cleaning operations on the peristaltic pump, it is necessary to:
1. Make sure that it is electrically disabled (both polarities) by disconnecting the conductors from the contact points of the power supply by opening the omnipolar switch;
2. Eliminate in the most appropriate and gradual way, (paying the utmost attention not to generate splashes), the existing pressure in the delivery pipe.
3. Remove the transparent cover of the pump, to highlight any underlying leaks and encrustations;
4. Clean any incrustations due to leaks or drips on the entire pump structure, paying particular attention to the lower part of the pump where, usually, any incrustations due to drips accumulate;
5. Reassemble the transparent cover, the delivery and suction hoses and reconnect the pump electrically;
6. Carry out priming if necessary and restore the normal operating status of the pump.

7.2 PUMP MAINTENANCE

Under normal operating conditions, the peristaltic pump should be checked monthly.
To avoid malfunctions or sudden stops, carefully check the following items:

- check that the electrical and hydraulic connections are intact;
- check for any leaks on the connections of the peristaltic tube or the injection valve;
- check that there are no parts of the pump or pipes corroded.

Always empty the peristaltic tube from chemical, if there could still be presence of dangerous chemical inside the peristaltic tube it is mandatory to declare it filling the RETURN MATERIAL AUTHORIZATION module.
Always use original spare parts if it is necessary to replace worn parts

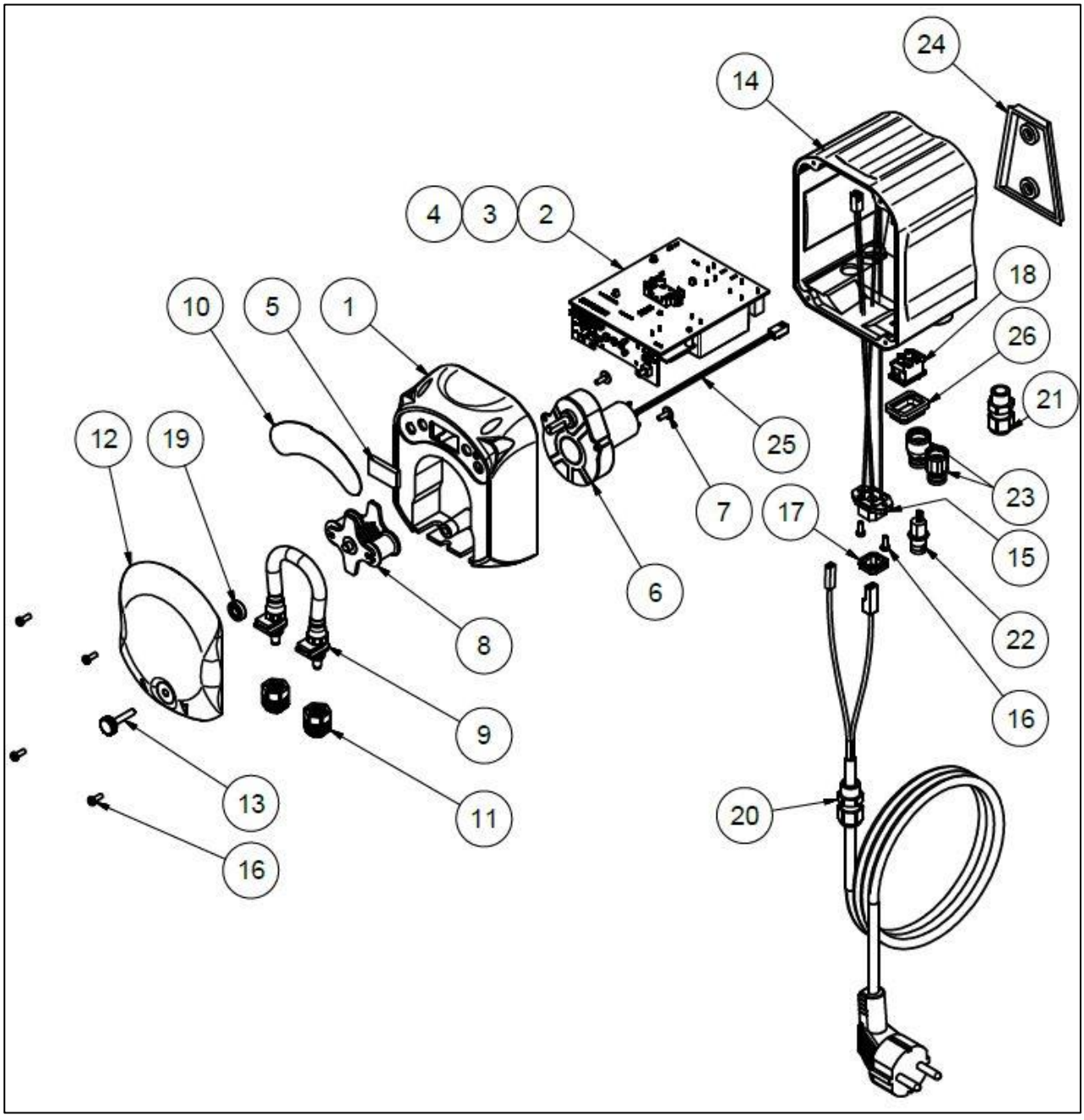
All technical assistance operations must be performed only by expert and authorized personnel. If the pump requires direct assistance from the manufacturer, it is necessary to remove all the liquid inside the pump head and dry it BEFORE packing it in its original box!

8. WARRANTY

The product is covered by the manufacturer's warranty for manufacturing defects. The methods and conditions are set forth in the "General Conditions of Sale" document of AQUA SpA.

EXPLODED VIEWS

GENERIC IW-POOL



GENERIC IW-POOL

N°	Codice *Code*	Descrizione *Description*	Quantità *Quantities*
1	IW13041	CASSA ANTERIORE IW-POOL NERA C/GUARNIZIONE LIQUIDA *IW-POOL FRONT CASING W/LIQUID GASKET*	1
2	IWSKDRPDPPOL	SKD PDP IW-POOL - COMPLETA *IW-POOL COMPLETE ELECTRONIC BOARD*	1
3	WD11H5D4S00T*	DISTANZIALI SNAP-ON 11,5mm/4/4 WA-SNSN *11,5mm SNAP-ON SPACER*	3
4	789STRPHRX0I*	SKD MISURA PH(RX) STRUMENTO AE-START+ E POMPE *MEASURE MODULE ELECTRONIC BOARD*	1
5	IW15206	METACRILATO ESTRUSO OPALE 13x25,5x4 PER LED IW-POOL *MATT GLASS FOR LED LIGHT TRANSMISSION*	1
6	ADSP8000254	MOTORE RAP 225 24VDC PER-R *24VDC ELECTRIC MOTOR RATIO 225*	1
7	ADSP6001021	VITE 3x8 D.9mm ACCIAIO ZINCATO PER PLASTICA (RONDELLA INTEG.) *3x8 D.9 GALVANIZED STEEL SCREW*	2
8	ADSP8000009A	PORTA RULLINI COMPLETO PER-R 4/6-1 *COMPLETE ROLLER HOLDERS 4/6-1*	1
9	ADSP800I109	TUBO SANTOPRENE PER-R INCOMPLETO *INCOMPLETE SANTOPRENE HOSE*	1
10	IW15204	ETICHETTA POLICARBONATO PDP IW-POOL PH-RX *IW-POOL PH-RX POLICARBONATE ADHESIVE LABEL*	1
10	IW15200	ETICHETTA POLICARBONATO PDP IW-POOL *IW-POOL POLICARBONATE ADHESIVE LABEL*	1
11	IW15155	METACRILATO ESTRUSO OPALE SP.4mm PER LED *OPAL EXTRUDED METHACRYLATE SP.4mm FOR LED*	1
12	ADSP8000195	COPERCHIO FRONTALE FUME' NEUTRO PERISTALTICA SIMPOOL *TRANSPARENT FRONT COVER*	1
13	ADSP8000029	MANOPOLA FISSAGGIO COPERCHIO TRASPARENTE TEC *FRONT COVER FIXING KNOB*	1
14	IW13050	CASSA POSTERIORE IW-POOL NERA *IW-POOL BACK CASING*	1
15	ADSP6000835A	CONNETTORE MASCHIO 4 VIE G4A5M CABLATO SERVIZI PANDUIT 2 VIE *4 PIN WIRED MALE CONNECTOR WITH 2 PIN PANDUIT*	1
16	ADSP6000749	VITE 3x8 (TCTC) INOX A2 – SERIE HILO *3x8 SS HILO SERIES SCREW*	6
17	ADSP6000849	TAPPO COMPLETO (GUARNIZIONE+VITE) PER CONNETTORE G4A5M *G4A5M CONNECTOR CAP*	1
18	ADSP6000516	INTERRUTTORE ON/OFF 3A 250V TIPO A BILICO *ON/OFF SWITCH 3A 250V*	1
19	ADSP4100207	CUSCINETTO TIPO SKF 618/6 PER COPERC. POMPA 100LT ECOWASH *SKF 618/6 TYPE BEARING*	1
20	ADSP6020281B	CAVO H05VV-F 2X0,75 MT3 CABLATO + PG7 + SPINA SHUKO *3MT WIRED CABLE + PG7 + SHUKO PLUG*	1
21	ADSP6000424	PRESSACAVO PASSO PG7 – 1900.07 – NERO + DADO *PG7 CABLE GLAND + NUT*	1
22	ADSP6000292	CONNETTORE BNC FEMMINA CONN.CRIMP.2,54 L160 R/N CABLATO *FEMALE BNC CONNECTOR WIRED*	1
23	ADSP6000948	PROTEZIONE BNC FEMMINA DA PANNELLO GOMMA NERO *BNC RUBBER PROTECTIVE CAP*	2
24	ADSP8000025	STAFFA A SLITTA *WALL FIXING BRACKET*	1
25	ADSP6000293	CONNETTORE PANDUIT + FASTON A BANDIERA FILI ROSSO/NERO *PANDUIT CONNECTOR + FASTON WIRED WITH RED/BLACK WIRES*	1
26	ADSP6000686	COVER TRASPARENTE DI PROTEZIONE PER INTERRUTTORE ON/OFF *ON/OFF SWITCH PROTECTION CAP*	1

**: depending on the pump model you have, when you order the IWSKDRPDPPOL electronic board you must also order 789STRPHRX0I board if you have a IW-POOL PH-RX version and also WD11H5D4S00T snap on spacer.*