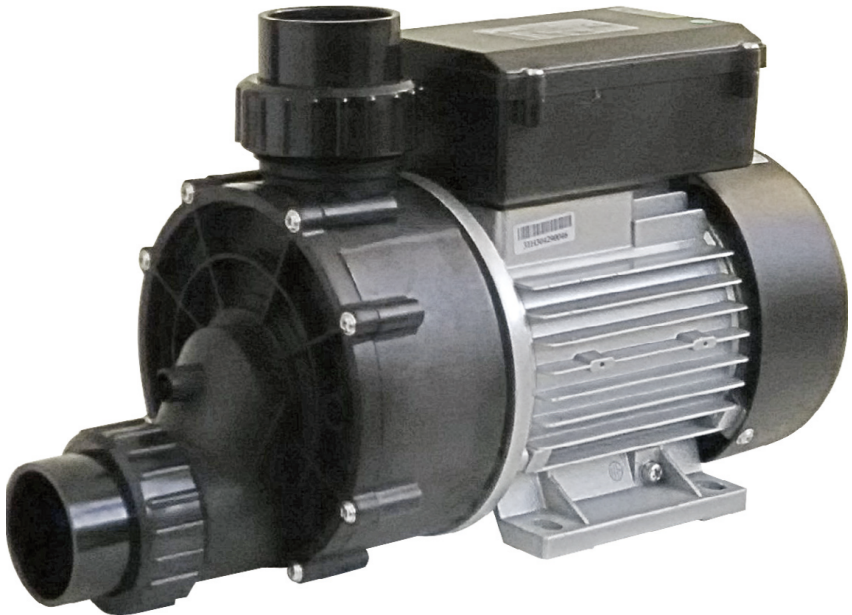
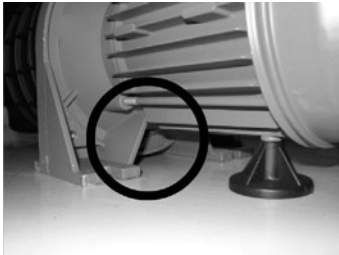


Atecpool Hydro Massage Pump

Whirlpool Pump



■ **This Manual is a need control before to make work the pump and during the functioning of the water pump:**



Check regularly the watertightness! (An escape for the shaft seal causes important damages).



In order to avoid blockades of the shaft seal, please rotate the axis through the impeller before the beginning or after prolonged stoppings.

Pay attention to the position of the cable to avoid water entrances in the terminal box.



The correct position prevents the entrance of water in the electrical cable.



Incorrect!

**Install the pump in a ventilated place and protected of the meteorological influences!
Never replace the manual of instructions included with the pump!**

Before starting the process of install the pump it is a must to read this manual of operations carefully. The installation must be according with the local standard.

1 Applications

The pump for swimming pool are a centrifugal type and with horizontal construction.

Its main function is to make circulate the water, normally settle in Spas. The pump can also be installed for its use in swimming pools connected to a prefilter. The pump is designed to remove clean waters coming from one SPA or a swimming pool disinfected by chlorination.

2 Technical Data

2.1 Environmental temperature

Maximun + 40°C.

2.2 Temperature of the water

From 0°C to + 40°C.

2.3 Principle allowed pressure of work

2 bar (that possible water hammers do not exceed 3 kgs).

2.4 Principle inlet pressure

When the water pump works against a closed valve the presure must be always lower that the maximun allowed pressure of work.

2.5 Electrical Data

Voltage: 1x220/230V 50Hz
See also identification plate.
Type of protection: IP 55.
Class of isolation: Class F.

2.6 Dimensions

Please see the figure at the end of these instructions.

2.7 Level of sound

The level of the sound of the pumps is minor than 70 dB.

2.8 Weights and measures of packing

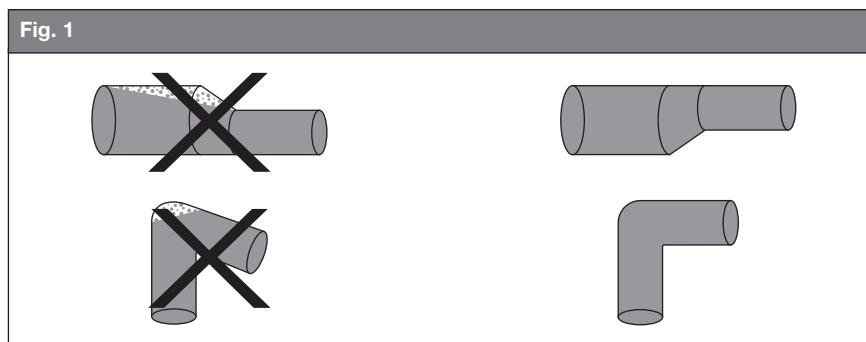
Type	Weight (Kg.)	Measures (mm.)
AHM50	6,3	380x190x240
AHM75	6,8	380x190x240
AHM100	7,2	380x190x240
AHM120	8,5	425x220x260
AHM150	9,6	425x220x260
AHM200	10,5	425x220x260

3 Installation

The pumps series settle normally in SPA.

The pump must be mounted on a solid base guarding an horizontal axis. The suction line must have minimum the same diameter than the mouth of aspiration of the pump. If the suction line exceeds 10 meters, the lost ones of pressure must be considered, to install the pipes so that the training of air bags would be avoided especially in its interior, in the suction line.

The following figure shows a correct pipe.



The pipes must be mounted so that, that the tensions caused by temperature variations do not affect the pump.

If the pump is installed with the pipes of great length, then these must have a suitable support in front and behind the pump, is advisable to place in the impulsion an antiram or check valve.

This type of pumps settles generally in load, or what the level of the water would be over the mouth of aspiration of the pump. In the case of facilities in aspiration it is necessary to make sure a correct priming of the pump before the beginning and the installation must be provided of a feet valve.

⚠ The pipes of plastic and the connections must be threaded with care.

If a hose is used to aspire, this must be of the non-compressible type (with reinforcement spiral).

The pipe/hose to aspire must be as short as it is possible to assure optimum conditions of work.

It is recommended to install a valve for closing in both sides to isolate the pump.

Note: The pump does not admit the operation against closed spill valve, because this could increase the temperature and the steam can damage the pump.

If the possibility that the work of the pump exists against a closed spill valve, it is a must to make sure that a minimal volume of liquid pass through the pump, connecting a bypass/bleed backflow valves to the unloading pipe.

In order to diminish the possible noise of the pump it is advised to place vibration-proof in the mouths of aspiration, in the impulsion and between the base and the pump.

3.1 Ventilation

The motor of the pump cools off, through the fan located in its later part, by this reason, a fresh air flow is necessary to make sure that a good ventilation of the pump is enough, and making sure that the environmental temperature does not surpass 40° C.

In order to assure an efficient refrigeration it is essential that the minimal distance between the fan cover and the wall or another obstacle located in the later part of the motor must be upper to a twice of the diameter of the fan.

In closed spaces it can be advisable to install an additional fan that assures a fresh air flow to the surroundings of the pump for its correct refrigeration.

4 Electrical connections

⚠ Before retiring the cover of the capacitor holding box and before any transfer or dis-assembling of the pump, be sure of that the electrical provision is disconnected.

The electrical connections must be realised by an authorized electrician and in agreement with the local standard.

The pump must be connected to an external switch.

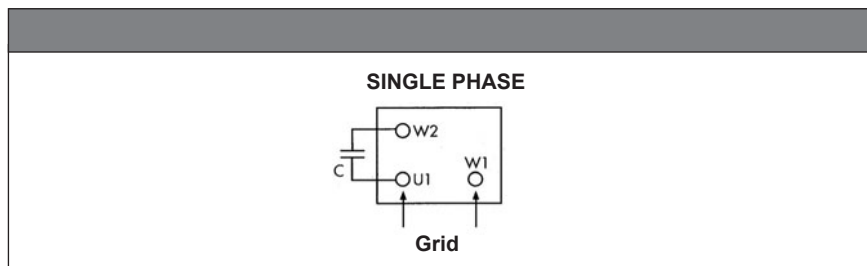
The votl and the frequency are wrote in the informative plate. Be sure that the motor is adapted to this type of electrical provision.

The motor must be connected to the electrical provision as it shows into the diagram, using an accredited watertight cable and in agreement with local norms and standards.

4.1 Protection of the motor

All the single-phase versions incorporate a motor protector and they do not need additional protection.

Note: If the motor becomes overloaded, this will turn disconnected automatically itself. When the temperature of the motor descends to a normal energy level, this comes back to connect itself automatically.



5 Put into operation

Note: Never put into operation the pump until it has been purged and primed.

The pump is correctly primed when the water is just below the transparent cover.

An arrow in the body of the pump indicate the correct direction of rotation.

In order to create the maximum aspiration capacity during the beginning, please close the spill valve, start the pump and open the spill valve slowly.

If the pump does not work correctly after 5 minutes, stop the pump and verify the level of the water in the suction line and in the same pump.

6 Cleaning of the basket of the pre-filter and their maintenance

⚠ Before beginning to work in the pump, be sure of that the electrical provision is disconnected and cannot be connected accidentally.

The basket of the pre-filter built in the pump should be check every day and if it is necessary verifies the cleaning. Before opening the cover of pre-filter, the valves for load and unload must be closed.

⚠ After the cleaning, prime the pump again, close the cover of the pre-filter. The pump could start up again.

Note: The cleaning with high pressure is not allowed.

7 Protection against the ice

If the pump is not going to be used during the winter season, this should be drained or emptied to avoid damages produced by the ice. In order to drain the pump, remove the backflow valves from wastepipe (69) from the body of the pump. Not to place the screw until to use the pump again

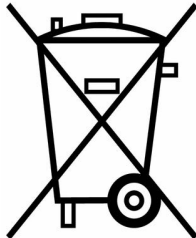
8 Maintenance

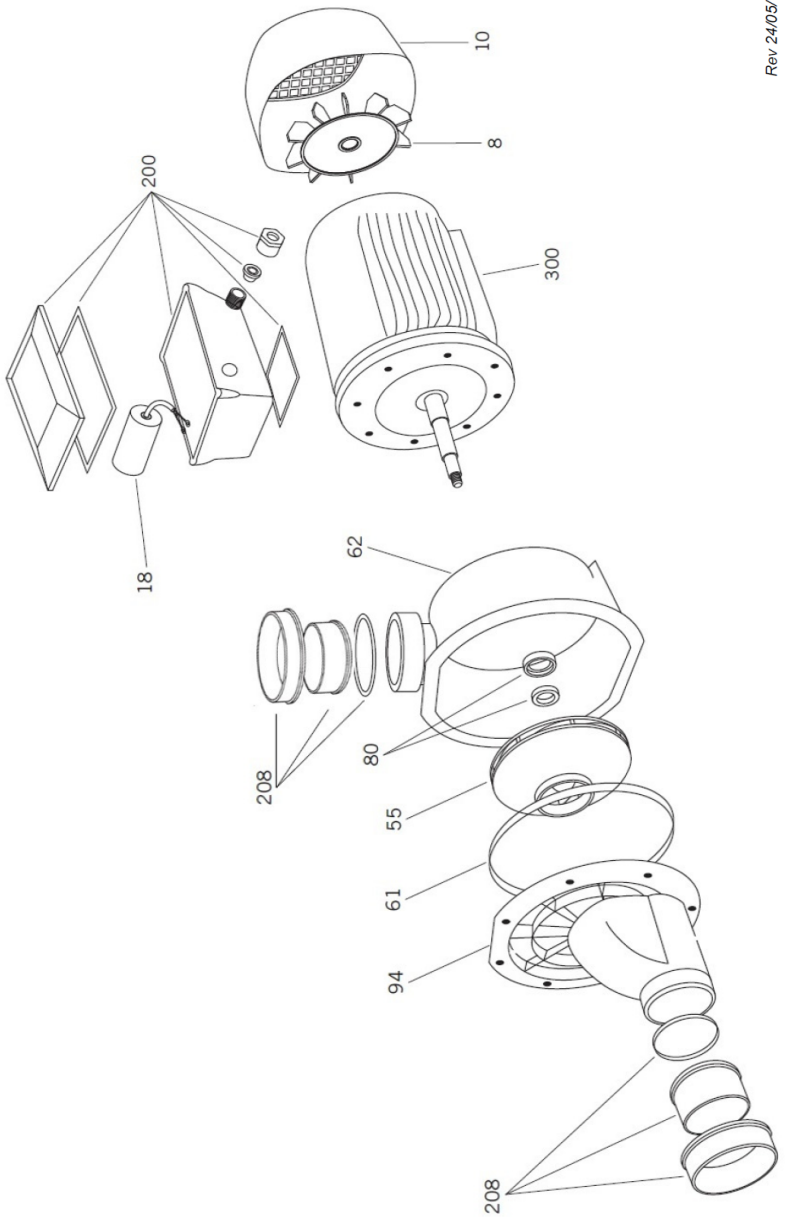
Under normal conditions of work, the pump does not need any specific maintenance.

9 Table of location of failures

Failures	Causes
The Pump works But do not remove water.	1) The pump has not been filled with water. 2) The pump has not been purged. 3) Filtrations in the pipe/hose of the pump. 4) The height of aspiration is very high. - Maximun allowed is 3 m. 5) The total lost of the load of the installation sur- passes the capacity of the pump. - A new calculation is required. 6) Filtrations in the shaft seal.
The pump does not work satisfactorly.	1) The level of the water of the Spa or Pool is too low. - Increase the level of the water till the half of the pool. 2) The pipe/hose of aspiration is semi-blocked by impurities. - Clean the pipe/hose of aspiration.

10 Recycling

	<p>In compliance with the Directive 2012/19/EU for waste electrical and electronic equipment (WEEE), the products marked with this symbol must be deposited at the local recycling center in each region for their selective collection, optimize the recycling of the components and materials and, reduce the impact on human health and the environment.</p> <p>The consumer should contact the local authority or the seller to inquire about the proper disposal of their appliance.</p>
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COMPONENTES

8 Ventilador
10 Coraza ventilador
18 Condensador
55 Turbina
61 Junta cuerpo bomba
62 Cuerpo de Bomba
80 Sello completo
94 Tapa aspiración
200 Conjunto Caja Conexiones
208 Conjunto enlace aspiración
208 Conjunto enlace Impulsión
300 Motor

COMPONENTS

8 Fan
10 Fan cover
18 Capacitator
55 Impeller
61 Pump housing gasket
62 Pump Body
80 Complete shaft
94 Suction cover
200 Terminal box set
208 aspiration connection set
208 impulsion connection set
300 Motor

PIECES

8 Ventilateur
10 Couverture ventilateur
18 Capacitor
55 Turbine
61 Joint corps pompe
62 Corps de pompe
80 Garniture mécanique complète
94 Couverture d'aspiration
200 Ensemble boîte de connexions
208 Ensemble connexion aspiration
208 Ensemble connexion impulsion
300 Moteur

COMPONENTI

8 Ventilatore
10 Corazza ventilatore
18 Condensatore
55 Turbina
61 Guarnizione corpo pompa
62 Corpo della Pompa
80 Anello completo
94 Copercchio aspirazione
200 Elementi Scatola delle connessioni
208 Elementi di collegamento aspirazione
208 Elementi di collegamento impulsione
300 Motore

TEILE

8 Ventilator
10 Ventilatorgehäuse
18 Kondensator
55 Turbine
61 Pumpenkörperdichtung
62 Pumpenkörper
80 Komplette Gleitringdichtung
94 Saugdeckel
200 Dreiphasen-Schalkasten Set
208 Aspirations-Anschluss-Set
208 Impulsions-Anschluss-Set
300 Motor

КОМПОНЕНТЫ

8 Вентилятор
10 Корпус вентилятора
18 Конденсатор
55 Турбина
61 Прокладка корпуса насоса
62 Корпус насоса
80 Полное механическое уплотнение
94 Крышка всасывающего устройства
200 Узел соединительной коробки
208 Узел соединения всасывающего устройства
208 Узел соединения всасывающего устройства
300 Двигатель

COMPONENTES

8 Ventilador
10 Caixa ventilador
18 Condensador
55 Turbina
61 Junta corpo bomba
62 Corpo da bomba
80 Vedante completo
94 Tampa aspiração
200 Conjunto caixa ligações
208 Conjunto ligação aspiração
208 Conjunto ligação impulsão
300 Motor

المكونات

8 المروحة
10 غطاء المروحة
18 المكثف
55 مروحة
61 حشية مثبت المضخة
المضخة
62 هيكل المضخة
80 صانع تسرب لعمود الدوران بالكامل
94 غطاء السخط
200 مجموعة علوية الوصلات الطرفية
208 مجموعة وصلة السخط
208 مجموعة وصلة نقطة الدفع
300 موتور

ES**DECLARACION "CE" DE CONFORMIDAD**

Según se describe en la documentación adjunta, ATECPOOL INTERNATIONAL ESPANA certifica que es conforme a: Directiva de Máquinas **2006/42/CE**, Directiva de Baja Tensión **2014/35/UE**, Directiva de Compatibilidad Electromagnética **2014/30/UE**, Directiva de Sustancias Peligrosas (RoHS) **2011/65/UE** y Directiva RAEE **2012/19/UE**. Bombes PSH Barcelona, SL está inscrito en el RII-AEE con número de inscripción registral 7225.

EN**EC CONFORMITY DECLARATION**

According to enclosed documentation, ATECPOOL INTERNATIONAL ESPANA declares that is compliant with: Machinery Directive 2006/42/EC, Low Voltage Directive 2014/35/EU, Electromagnetic Compatibility Directive 2014/30/EU, Restriction of Hazardous substances (RoHS) 2011/65/UE and WEEE Directive 2012/19/EU.

FR**DECLARATION DE CONFORMITE "CE"**

Selon description adjoint, ATECPOOL INTERNATIONAL ESPANA c'est conforme a la Directive de Machine **2006/42/CE**, Directive bas tension **2014/35/CE**, Directive de compatibilité électromagnétique **2014/30/CE**, Directive Substances Dangereux (RoHS) **2011/65/CE** and RAEE Directive **2012/19/UE**.

IT**DICHIARAZIONE DI CONFORMITA "CE"**

In base alla documentazione allegata, è conforme alla Direttiva Europea sulle Macchine **2006/42/CE**, Direttiva di bassa tensione **2014/35/CE**, Direttiva Europea di compatibilità elettromagnetica **2014/30/CE**, Direttiva Sostanze Dangerous **2011/65/UE** e Direttiva RAEE **2012/19/UE**.

DE**"EG"-KONFORMITÄTSEKTLÄRUNG**

Wie in den beiliegenden Dokumenten beschrieben, erfüllt dieses Gerät die Europäische Maschinenrichtlinie **2006/42/EG**, die Niederspannungsrichtlinie **2014/35/EG**, die Euro-päische Richtlinie über elektromagnetische Verträglichkeit **2014/30/EG**, die Richtlinie über gefährliche Stoffe **2011/65/UE** und Richtlinie **2012/19/UE**.

PT**DECLARAÇÃO "CE" DE CONFORMIDADE**

Conforme descrito na documentação anexa, está em conformidade com a Directiva Europeia sobre Máquinas **2006/42/CE**, Directiva sobre baixa tensão **2014/35/CE**, Directiva Europeia sobre compatibilidade electromagnética **2014/30/CE**, Directiva Substâncias Dangerous **2011/65/UE** e Directiva RAEE **2012/19/UE**.

RU**ДЕКЛАРАЦИЯ СООТВЕТСТВИЯ НОРМАМ «СЕ» ЕВРОПЕЙСКОГО СОЮЗА**

В соответствии с описанием, приведенным в прилагаемой документации, данное оборудование соответствует Европейской директиве о машинной технике **2006/42/CE**, Директиве о низком напряжении **2014/35/CE**, Европейской директиве об электромагнитной совместимости **2014/30/CE**; Директиве **2011/65/CE**, Директиве **2012/19/CE**.