

INSTRUCTIONS

Read thoroughly prior to installation & operation

AquaClear

MULTIFUNCTION

Powerhead 50 70

Creates powerful water circulation and currents

Applications:

- Water Circulation
- Undergravel Filters
- Quick Filters
- Protein Skimmers
- Fresh or Salt Water

INSTRUCTIONS

Lire soigneusement avant d'installer et de faire fonctionner l'appareil.

AquaClear

MULTIFONCTIONNELLE

Powerhead 50 70

Tête motrice

Crée une circulation et des courants d'eau puissants

Applications :

- Circulation d'eau
- Filtres sous-gravier
- Filtres rapides
- Écumoirs de protéines
- Pour eau douce ou eau de mer

BEDIENUNGSANLEITUNG

Vor Installation und Inbetriebnahme bitte sorgfältig durchlesen

AquaClear

MULTIFUNKTIONAL

Powerhead 50 70

Erzeugt kraftvolle Wasserzirkulation und Strömung

Anwendungen

- Wasserzirkulation
- Bodenfilter
- Schnellfilter
- Einweißabschäumer
- Süß- oder Meerwasser

INSTRUCCIONES

Leer atentamente antes de instalar y de poner en funcionamiento.

AquaClear

CABEZAL MECÁNICO MULTIFUNCIONAL

Powerhead 50 70

Crea fuertes corrientes y una potente circulación del agua

Usos:

- Circulación del agua
- Filtros enterrados en grava
- Filtros rápidos
- Separadores de urea
- Agua dulce o salada

ENGLISH

AquaClear Powerheads deliver outstanding performance in a variety of applications. They can efficiently drive undergravel filters, circulate and aerate aquarium water, and attach to filtration accessories such as the AquaClear Quick Filter to support crystal clear water conditions.

AquaClear Powerheads can be used to raise oxygen levels, which is important when there are increases in water temperature or fish population, and during the treatment of diseases.

AquaClear Powerheads can also be connected to drive protein skimmers, which are essential devices for most marine aquariums.

Freshwater aquariums benefit from additional currents in many applications. Using a Powerhead in combination with an AquaClear Quick Filter provides added safe mechanical filtration for cleaner water conditions and the protection of baby fish.

AquaClear Powerheads are indispensable in smaller reef aquariums where they can be easily hidden and still provide highly beneficial currents.

AquaClear's unique reverse flow feature allows the Powerhead to force water down the undergravel riser stem and beneath the gravel. This helps promote bacterial growth from the bottom up.

In addition to being the ultimate submersible water movers, AquaClear Powerheads also include the following design, safety and utility innovations:

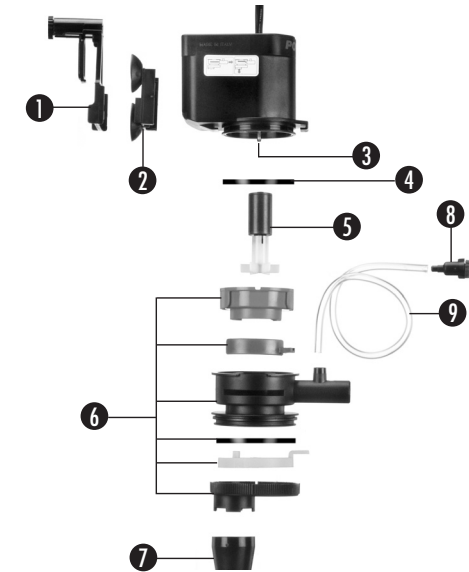
- Hermetically-sealed, completely submersible motor units which are insulated with highly effective epoxy resin to insulate against harsh fresh-water and saltwater environments
- Compact, energy-efficient motor units are isolated to eliminate maintenance
- Convenient suction cup brackets and rim attachment brackets allow quick and easy installation and removal.

SPECIFICATIONS / SPÉCIFICATIONS / TECHNISCHE ANGABEN / ESPECIFICACIONES

Powerhead 50	Without Air / Sans air Ohne Luft / Sin aire	With Air / Avec air Mit Luft / Con aire	Reverse Flow / Débit inverse Umgekehrter Durchfluss Flujo inverso
120 V / 60 Hz			
Output • Débit • Leistung • Caudal	1022 LPH • 270 GPH	946 LPH • 250 GPH	473 LPH • 125 GPH
Power Consumption / hour Consommation / heure Stromverbrauch / Std. Consumo energético/hora	12 W	11 W	10 W
Amperes / Hour • Ampères / heure Amper / Std. • Amperio / hora	0.15 A	0.14 A	0.14 A
Water Column • Colonne d'eau Max. Förderhöhe • Columna de agua	1.4 m	N/A	N/A
220 - 230 V / 50 Hz			
Output • Débit • Leistung • Caudal	990 LPH • 261 GPH	870 LPH • 230 GPH	462 LPH • 122 GPH
Power Consumption / hour Consommation / heure Stromverbrauch / Std. Consumo energético/hora	10 W	9.5 W	9 W
Amperes / Hour • Ampères / heure Amper / Std. • Amperio / hora	0.06 A	0.06 A	0.06 A
Water Column • Colonne d'eau Max. Förderhöhe • Columna de agua	1.3 m	N/A	N/A

Powerhead 70	Without Air / Sans air Ohne Luft / Sin aire	With Air / Avec air Mit Luft / Con aire	Reverse Flow / Débit inverse Umgekehrter Durchfluss Flujo inverso
120 V / 60 Hz			
Output • Débit • Leistung • Caudal	1514 LPH • 400 GPH	1317 LPH • 348 GPH	659 LPH • 174 GPH
Power Consumption / hour Consommation / heure Stromverbrauch / Std. Consumo energético/hora	20 W	20 W	17 W
Amperes / Hour • Ampères / heure Amper / Std. • Amperio / hora	0.22 A	0.22 A	0.21 A
Water Column • Colonne d'eau Max. Förderhöhe • Columna de agua	1.7 m	N/A	N/A
220 - 230 V / 50 Hz			
Output • Débit • Leistung • Caudal	1514 LPH • 400 GPH	1317 LPH • 348 GPH	598 LPH • 158 GPH
Power Consumption / hour Consommation / heure Stromverbrauch / Std. Consumo energético/hora	21 W	20.5 W	14 W
Amperes / Hour • Ampères / heure Amper / Std. • Amperio / hora	0.11 A	0.11 A	0.095 A
Water Column • Colonne d'eau Max. Förderhöhe • Columna de agua	1.7 m	N/A	N/A

AquaClear Powerhead 50 70



AquaClear	50	70
Aquarium Rim Attachment Support pour cadre d'aquarium Halterung Sujeción para el borde del acuario	A-16530	A-16530
Suction Cup Bracket Support à ventouses Saugnapf-Halterung Soporte con ventosas	A-16540	A-16540
Impeller Shaft Arbre de couronne Anschlußstück eckig-rund Eje	A-16550	A-16550
Seal Ring Anneau d'étanchéité Dichtungsring Hermética	A-16810	A-16910
Impeller Couronne Antriebsmagnet Rotor	A-16830	A-16930
Impeller Housing Boîtier de la couronne Antriebsmagnetkammer Caja del rotor	A-16820	A-16920
Stem Adapter Cône adapteur Adapter Adaptador al tubo del filtro	A-16570	A-16570
Venturi Air Valve Soupape à air venturi Luftabsperrentil Válvula Venturi	A-13921	A-13921
Air Hose Tuyau à air Luftschlauch Tubito Manguera para el aire	A-16515	A-16915

IMPORTANT SAFETY INSTRUCTIONS

WARNING - To guard against injury, basic safety precautions should be observed when handling the **Powerhead**, including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS

and all important notices on the appliance before using, for the complete enjoyment, use and understanding of this product. Failure to do so may result in loss of fish life and/or damage to the unit.

2. DANGER

— To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs yourself; return the appliance to an authorized service facility for service or discard the appliance.

A) If the Water Pump falls into the water, DON'T reach for it! First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately.

B) If the Water Pump shows any sign of abnormal water leakage, immediately unplug it from the power source.

C) Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.

D) Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or dropped or damaged in any manner. **The power cord of this appliance cannot be replaced; if the cord is damaged, the appliance should be discarded.** Never cut the cord.

E) To avoid the possibility of the appliance plug or receptacle getting wet, position the appliance to one side of a wall-mounted receptacle and prevent water from dripping onto the receptacle or plug. A "drip loop" (Fig. 1) should be arranged for the cord connecting the appliance to the receptacle. The "drip loop" is that part of the cord below the level of the receptacle or the connector, if an extension cord is used, to prevent water travelling along the cord and coming in contact with the receptacle.

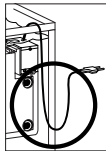


Fig.1

If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water.

3. Close supervision is necessary when any appliance is used by or near children.

4. **To avoid injury, do not touch moving or hot parts.**

5. **Always unplug an appliance from the outlet when not in use, before putting on or taking off parts, and before cleaning.** Never yank the cord to pull plug from outlet. Grasp the plug and pull to disconnect.

6. **THIS IS AN AQUARIUM PUMP.** Do not use an appliance for other than intended use (i.e. don't use in swimming pools, garden ponds, bathrooms, etc.). The pump is suitable for use in water with temperature up to 35°C. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.

7. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.

8. Make sure an appliance mounted on a tank is securely installed before operating it.

9. Read and observe all important notices on the appliance.

10. If an extension cord is necessary, a cord with proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.

11. CAUTION: POWERHEAD MUST NOT RUN DRY.

SAVE THESE INSTRUCTIONS

INSTALLATION

Caution: Disconnect the plugs of all the appliances inside the aquarium before putting your hands in the water.

UNDERGRAVEL FILTER OPERATION

- Determine the difference in height between the rim of the aquarium and the seated position of adapter cone in the Undergravel Filter Riser Stem (approx. 4" to 7"/10 cm to 18 cm).
- Cut or adjust Undergravel Riser Stem to correct height.

- Seat Powerhead adapter cone into the Undergravel Filter Riser Stem and rotate aquarium rim attachment knob to securely tighten the clamp to required aquarium rim width. Alternately, position suction cup bracket and slide Powerhead into guides.

NOTE: Aquariums which use very fine grade gravel or sand may require nylon mesh placed over the strainer to prevent the Powerhead from clogging in normal flow position.

OPERATION

- Adjust Water Movement Switch to green position for normal flow or red position for reversed flow.
- Adjust flow rate to desired strength if required.
- Connect cord to electrical outlet.

QUICK FILTER OPERATION

Powerhead 50 and 70 can easily be converted to a "Quick Filter" to remove dirt and debris quickly. The QUICK FILTER (Art. #A-575) can be obtained from your local pet dealer.

- Load (optional) QUICK FILTER attachment with a QUICK FILTER Cartridge (Art. #A-580).
- Remove small top adapter of QUICK FILTER and insert Powerhead Strainer Plate into QUICK FILTER firmly.
- Place unit into aquarium in desired location and clamp or use suction cup bracket to keep in position.
- Connect the cord to the electrical outlet.

Important: The Powerhead must operate continuously to sustain filtering action and beneficial bacteria. Do not unplug the Powerhead for periods in excess of 1 hour to avoid the reduction of biological filtration.

MAINTENANCE

Caution: Disconnect the power cord of the Powerhead and all other plugs of all the appliances inside the aquarium before performing maintenance.

The motor of the Powerhead is hermetically sealed with epoxy, thereby requiring no lubrication or other maintenance. Although the impeller cavity is self-cleaning, regular maintenance is recommended.

First remove the Powerhead from its installation.

Remove the complete impeller housing and clean the impeller and the impeller well to remove all accumulated slime, dirt or debris. Never use soap; rinsing in fresh water and wiping the deposits away should be sufficient. If soap or detergent is used, a toxic residue may be left that can cause stress or even death to the aquarium inhabitants.

After cleaning, put the impeller back on the shaft and carefully reassemble the impeller housing. Fasten by turning the impeller housing and ensuring a proper seal. The impeller will wear over a longer period of time. Replacement parts may be ordered from your local pet dealer or our Service Division.

The power cord of this appliance cannot be replaced; if the cord is damaged, the appliance should be discarded.

CUSTOMER SERVICE

Questions? Problems? Call or write us. Please have all relevant information available, such as model and part numbers.

Canada Only: Toll Free Number 1-800-55HAGEN (1-800-554-2436)
Between 9:00 am and 5:00 pm Eastern Time.

U.S. Only: Toll Free Number 1-800-72HAGEN (1-800-724-2436)
Between 9:00 am and 5:00 pm Eastern Time.

U.K. Only: Helpline Number 01977 556622
Between 9:00 am and 5:00 pm.

FOR AUTHORIZED GUARANTEE REPAIR SERVICE:

Return unit with dated receipt to:

Canada: Rolf C. Hagen Inc.
3225 Sartelon St., Montreal, Quebec, H4R 1E8

U.S.: Rolf C. Hagen (USA) Corp.
50 Hampden Road, Mansfield, MA. 02048-9107

U.K.: Rolf C. Hagen (UK) Ltd.
California Dr., Whitwood Ind. Est., Castleford, West Yorkshire
WF10-5QH

GUARANTEE

The AquaClear Powerhead is unconditionally guaranteed for defects in material and workmanship for a period of two years from date of purchase. This guarantee is valid only under normal operating conditions for which the Powerhead is intended. This guarantee will not apply to any unit subjected to improper use, negligence or tampering. This guarantee does not include responsibility for animate matter contained in the aquarium and is limited to the Powerhead unit only. The motor is factory sealed; tampering will void guarantee.