

AquaClear

AquaClear Power Filter

Technical Specifications

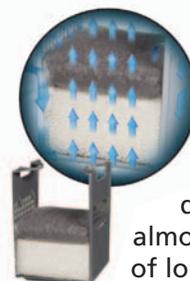
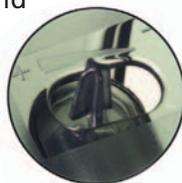
MODEL	Article #'s	Aquarium size (U.S. Gal)	Flow Rate (GPH)	Flow Rate (LPH)
20	A - 595	5 - 20	100	378.5
30	A - 600	10 - 30	150	567.8
50	A - 610	20 - 50	200	757.1
70	A - 615	40 - 70	300	1,135.6
110	A - 620	60 - 110	500	1,892.7



Design Features & Benefits

Patented Flow Control: Adjust performance to a specific aquarium volume, type, or provide an environment for fish which prefer more or less water movement. This unique feature offers up to 66% reduction of maximum flow intake while making continuous full use of the filter motor. The motor spins at maximum rate all the time. When reduced intake flows are selected, the refiltration grid allows for water to re-circulate through the filter media to maximize filtration performance through increased contact time.

Filter Media Basket & Refiltration Grid: AquaClear filter systems were designed for easy and convenient maintenance. The filter media basket was designed to get the most out of filter media. The filter media basket prevents water by-pass around filter media while allowing easy removal and installation of filter inserts. Built in filter media supports keep filter inserts properly positioned.



The refiltration grid is incorporated with the filter media basket to ensure that filter media is constantly exposed to maximum water flow, even at reduced intake settings

Filter Output: AquaClear filters return water to the aquarium via a natural waterfall design that includes a lip to ensure efficient surface water distribution and movement. This promotes necessary oxygen levels by agitating the contact area between surface water and air, the interface where oxygen enters water and carbon dioxide leaves. In addition, effective water currents are produced, contributing to the delivery of waste to the filter input.

Industry Leading Pump Technology: The AquaClear filter line pioneered aquarium filtration technology with an efficient pump design that uses a single moving part, a magnetic impeller. The "Free Floating" impeller delivers superior wear and service life characteristics. The magnetic impeller automatically self-centers itself within a magnetic field, resulting in reduced heat, friction and wear.

Reputation: Due to a long and successful history the AquaClear has evolved to become the long standing leader in hang on filter performance and reliability. The percentage of failures and/or defects due to manufacturing are almost unheard of, an excellent indicator of long-term success.

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Design Features & Benefits

(Cont...)

Multi-Stage Filtration System: Provides all 3 essential forms of filtration; Mechanical (Foam Filter Insert); Chemical (Activated Carbon Insert); Biological (BioMax). This design requirement was included from the very beginning, unlike some competitors that have added on devices to attempt to provide complete filtration in a hang on filter. Incorporating multiple filtration inserts ensures that when one insert is replaced the others will continue to provide biological filtration.

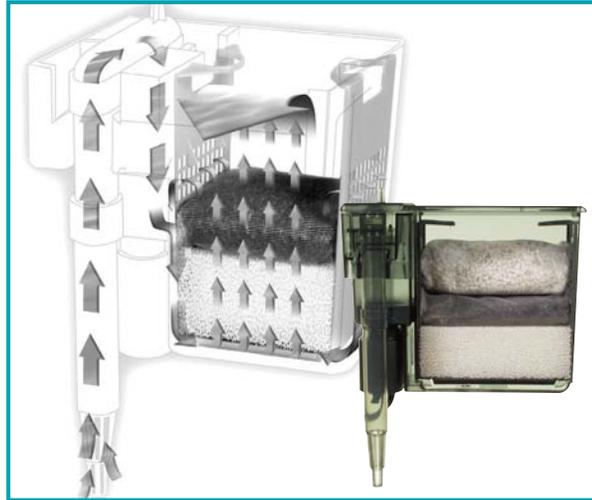
Filter Inserts:

Foam: AquaClear Foam Filter Inserts ensure waste and debris is effectively trapped to clear water and prevents subsequent filtration media from becoming clogged and less effective.

AquaClear Foam Filter Inserts feature foam that has been specifically selected with an optimal pore count to ensure long-term performance and prevent rapid initial clogging. This foam provides desirable water flow patterns to support full contact with subsequent filter media.

Carbon: AquaClear Activated Carbon is manufactured from bituminous coal, ideal for water filtration. The amount of carbon provided far exceeds that which is commonly provided in most cartridge filters. Carbon effectively removes organic waste, discoloration, odors, various medications as well as undesirable substances found in tap water.

Amrid (Ammonia Removing Resin): For freshwater use only. Reduces total ammonia by attracting ammonium ions. This causes the existing ammonia ions to convert to ammonium in order to maintain the existing balance between



ammonia and ammonium (dependent on pH). Amrid is strongly recommended in the following situations; when tap water contains chloramines, in new aquarium set-ups, after using medication, if ammonia is detected when testing water. (Not included with AquaClear Power Filter)

BioMax: Porous rings are manufactured from inert ceramic material that will not affect pH or water hardness. BioMax is the ideal biological filtration media, composed of 85% micro-tunnels and 15% micro-cavities. Micro-tunnels are open ended and allow for ample oxygen availability to nitrifying bacteria, while micro-cavities provide an environment that is lower in oxygen, suitable for other species of bacteria that support water quality.

The texture of BioMax aids in establishing and maintaining rapid bacterial colonization. It does not retain dyes or medications and periodic cleaning with water removed from the aquarium will ensure continued optimal performance. For best results replace half the BioMax every 3 months.

AquaClear Zeo-Carb is also available.



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Trouble Shooting

Symptom: Filter is noisy.

Action (s): Check filter case cover to make sure it is properly seated. If it is not, it may vibrate./ Check filter motor, the shaft and/or impeller may be worn causing improper movement of the impeller, resulting in friction and noise. Replace impeller if the center hole is not round or any impeller blades are missing./ If there is continuous air being expelled combined with an air and water mixing noise, verify that there are no aerating devices placed near the filter inlet and that the siphon tube is correctly positioned.

Symptom: Filter does not prime.

Action (s): Verify that filter case was filled with water to at least the level of the top of the impeller chamber. / Verify that the aquarium water level is sufficient to allow priming. Too low a level can prevent priming. / Ensure that the siphon tube is properly installed and seated within the filter case.

Symptom: Cannot clear cloudy water even when P – Clear is used.

Action (s): Try Nutrafin B – Clear to verify that the cause is not in fact a bacterial bloom. / Temporarily replace AquaClear Filter Foam Insert with Polyester, especially when Nutrafin P – Clear is being administered. Discard the polyester when the treatment is successful or it has become full of debris and needs to be replaced. Replace the polyester with an AquaClear Filter Foam Insert once the water is clear.

Symptom: Filter impellers seem to wear out consistently within 4 to 6 months.

Action (s): If sand or very fine gravel is used as substrate ensure that the filter intake is a reasonable distance from the bottom of the aquarium. Sand can easily be taken into the filter and enters the impeller chamber first where it would definitely prematurely wear an impeller and impeller shaft. / Check the impeller shaft, it may be worn causing consequential movement of the impeller and resulting uneven wear.

Symptom: Filter media lifts causing dangerously high filter water levels.

Action (s): Verify that authentic AquaClear filter media is being used and that it is properly positioned within the filter media basket / Filter media may be clogged with waste and debris, rinse or replace as needed.

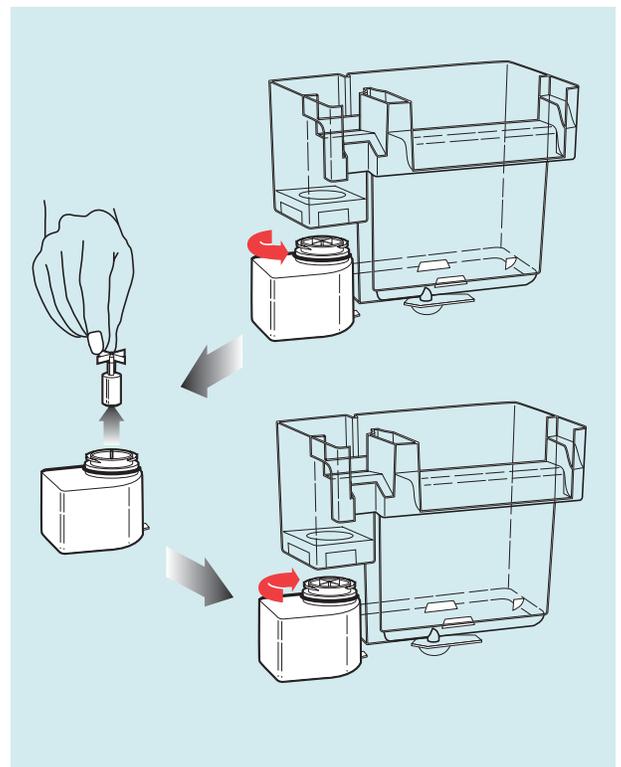
Symptom: Siphon tube is difficult to move to adjust flow.

Action (s): Ensure that siphon is properly positioned by verifying that it has been fully inserted into the slot located on the exterior of the filter case.

Symptom: Filter does not start after power failure or maintenance.

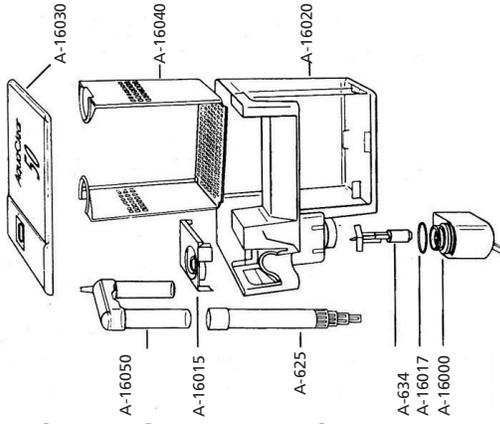
Action (s): Remove filter motor and clean impeller and impeller chamber.

How to replace an Impeller:

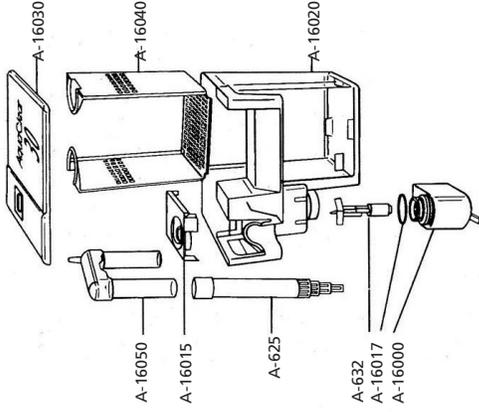


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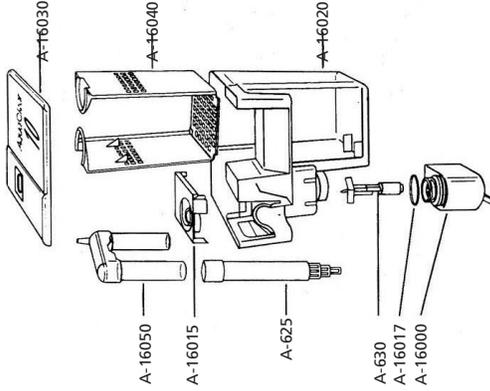
AquaClear 50



AquaClear 30



AquaClear 10



Replacement Parts for AquaClear 10

Art. #	Description
A-16000	Motor unit
A-16001	Impeller Shaft for 10, 30, 50, & 70
A-16015	Impeller Cover
A-16017	Seal Ring
A-16020	Filter Case
A-16030	Filter Case Cover
A-16040	Filter Basket
A-16050	Intake Stem
A-625	Extension Tube
A-630	Impeller Assembly

Replacement Parts for AquaClear 30

Art. #	Description
A-16120	Filter Case
A-16130	Filter Case Cover
A-16140	Filter Basket
A-632	Impeller Assembly
A-16015	Impeller Cover
A-16150	Intake Stem
A-625	Extension Tube
A-16017	Seal Ring
A-16000	Motor Unit

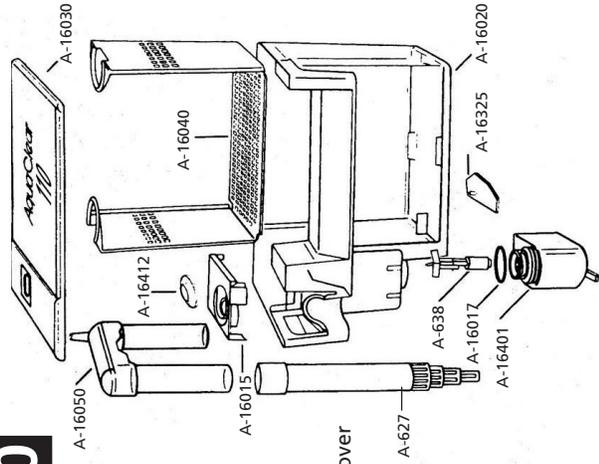
Replacement Parts for AquaClear 50

Art. #	Description
A-16220	Filter Case
A-16230	Filter Case Cover
A-16240	Filter Basket
A-634	Impeller Assembly
A-16015	Impeller Cover
A-16150	Intake Stem
A-625	Extension Tube
A-16017	Seal Ring
A-16000	Motor Unit

Replacement Parts for AquaClear 70

Art. #	Description
A-16315	Impeller Cover
A-16320	Filter Case
A-16325	Leveling Device
A-16330	Filter Case Cover
A-16340	Filter Basket
A-16350	Intake Stem
A-627	Extension Tube
A-636	Impeller Assembly
A-16017	Seal Ring
A-16000	Motor Unit

AquaClear 110



Replacement Parts for AquaClear 110

Art. #	Description
A-627	Extension Tube
A-638	Impeller Assembly
A-16325	Leveling Device
A-16350	Intake Stem
A-16401	Motor Unit
A-16412	Intake Stem Adapter Cover
A-16415	Impeller Cover
A-16417	Seal Ring
A-16420	Filter Case
A-16430	Filter Case Cover
A-16440	Filter Casket
A-16551	Impeller Shaft

AquaClear 70

