

Fluval 407

Fluval 407 Performance Canister Filter User Manual

Model: 407 (A449)

Brand: Fluval

1. PRODUCT OVERVIEW

The Fluval 407 Performance Canister Filter is designed for aquariums up to 100 gallons. It features Fluval eTEC (Efficient Technology) for pump performance and quiet operation, while maintaining low energy consumption. The filter is constructed for durability and includes features to simplify maintenance.

Key features include:

- Efficient eTEC technology for pump performance and quiet operation.
- Durable motor for consistent pumping power and pressure.
- Precision-crafted pump, operating up to 25% quieter than previous generations.
- EZ-Lift media baskets with a center handle for easy media stack removal.
- Vertical pre-filter cartridge for increased surface area and mechanical filtration.





Figure 1: Fluval 407 Canister Filter main unit. This image displays the complete filter unit with its black body, grey base, and red/black AquaStop valve on top.

2. WHAT'S INCLUDED

The Fluval 407 Performance Canister Filter package contains the following components:

WHAT'S INCLUDED



Figure 2: Included components of the Fluval 407 filter. This image shows the filter unit, pre-filter basket, media cover, baskets & handle, ribbed hosing, intake assembly, output nozzle, rubber hose connectors, rim connector sets, and various authentic Fluval filter media (Bio-Foam Max, Bio-Foam, Carbon, Quick-Clear, Bio-Foam+, Biomax).

- 07 Filter Unit (9.5" L x 7" W x 19.3" H / 24 x 18 x 49 cm)
- Pre-Filter Basket
- Media Cover, Basket & Handle
- Ribbed Hosing (9.8 ft / 3 m, 17 mm diameter)
- Intake Assembly (13.75" / 35 cm)
- Output Nozzle
- Rim Connector Sets
- Rubber Hose Connectors
- AquaStop valve
- Intake tube, Intake strainer, Intake Stem with intake strainer
- Instruction manual
- Suction cup 1" / 30 mm
- **Authentic Fluval Media:**
 - 2 x Bio-Foam Max

- 2 x Bio-Foam
- 4 x Carbon (2.46 oz / 70 g)
- 2 x Quick-Clear
- 2 x Bio-Foam+
- 2 x Biomax

3. SETUP INSTRUCTIONS

Follow these steps to set up your Fluval 407 Canister Filter:

1. **Prepare Filter Media:** Rinse all new filter media with tank water before placing them into the media baskets.
2. **Arrange Media Baskets:** Place the prepared media into the baskets in the desired order. The EZ-Lift media baskets with the center handle allow for easy removal and arrangement.
3. **Connect Hosing:** Attach the ribbed hosing to the AquaStop valve and secure it. Connect the intake and output tubes to the appropriate rim connectors and secure them to your aquarium.
4. **Prime the Filter:** Ensure the filter is filled with water and submerged in the aquarium. Use the quick primer handle to initiate water flow and remove air from the system.
5. **Power On:** Once the filter is primed and water is flowing, plug in the unit. Verify that the impeller is turning properly and water is circulating.
6. **Check for Leaks:** Carefully inspect all connections for any leaks. Make necessary adjustments to ensure a watertight seal.

FAST ACTION MAINTENANCE



AQUASTOP VALVE

Ergonomic design and raised lip for smoother operation



LIFT-LOCK MOTOR HEAD CLAMPS

Single action dual locking clamps for quick release & attachment

THE ONLY
VERTICAL PRE-FILTER



EZ-LIFT MEDIA BASKETS

Center handle allows main media stack to be removed simultaneously for quick media access



QUICK PRIMER

Redesigned handle is 7x stronger and requires less pump for effortless start-ups

Figure 3: Fast Action Maintenance features. This image highlights the AquaStop valve, Lift-Lock motor head clamps, EZ-Lift media baskets, and the Quick Primer handle, all designed for easier setup and maintenance.

4. OPERATING THE FILTER

The Fluval 407 filter operates continuously to maintain water quality in your aquarium. Its eTEC technology ensures efficient filtration with minimal noise and energy consumption.

ULTRA QUIET OPERATION



ITALIAN
PRECISION-CRAFTED

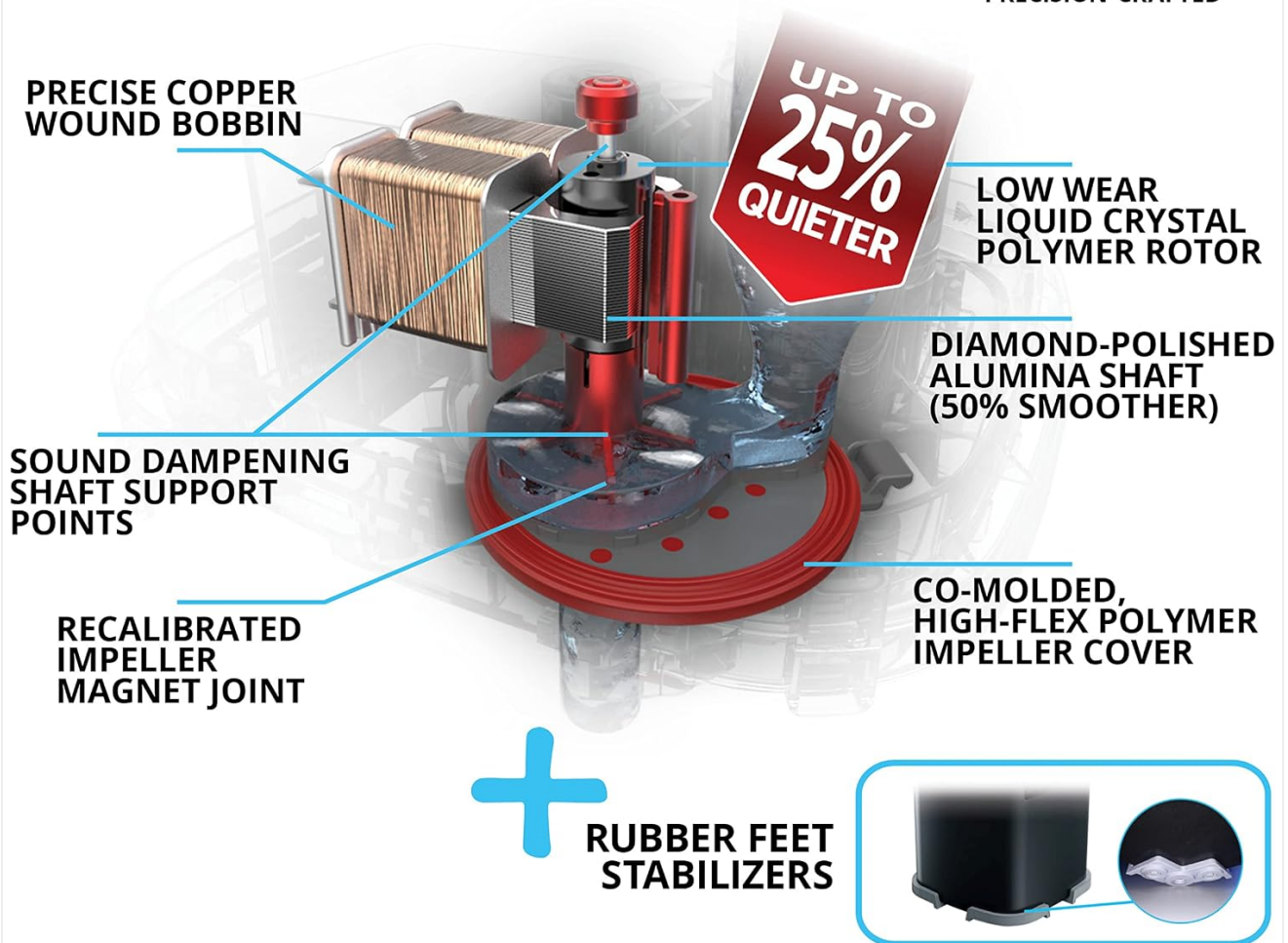


Figure 4: Ultra Quiet Operation. This diagram illustrates internal components contributing to quiet operation, including a precise copper wound bobbin, sound dampening shaft support points, a recalibrated impeller magnet joint, a diamond-polished alumina shaft, and rubber feet stabilizers.

The filter's motor generates consistent pumping power and pressure, ensuring effective water circulation and filtration. The precision-crafted pump is designed to run quietly, reducing operational noise.

ENERGY EFFICIENT

07 filters are big on power, yet small on energy consumption. The 107 and 207 models, for example, draw as little as 10 watts of electrical energy, which is

EQUIVALENT TO A SINGLE HOUSEHOLD LED LIGHTBULB!



Model	Pump Power	Energy Consumption	Running Cost
107	145 US Gal/h (550 L/h)	10 W	US\$ 0.20 / kWh = US\$ 17.52 / year
207	206 US Gal/h (780 L/h)	10 W	US\$ 0.20 / kWh = US\$ 17.52 / year
307	303 US Gal/h (1150 L/h)	16 W	US\$ 0.20 / kWh = US\$ 28.03 / year
407	383 US Gal/h (1450 L/h)	23 W	US\$ 0.20 / kWh = US\$ 40.29 / year

Figure 5: Energy Efficient operation. This image shows a table comparing pump power, energy consumption, and estimated running costs for Fluval 07 series filters, highlighting their low power usage comparable to an LED light bulb.

The 407 model has a maximum flow rate of 1450 Liters Per Hour (383 US Gal/h) and consumes approximately 23 Watts of power.

5. MAINTENANCE

Regular maintenance is crucial for optimal filter performance and water quality. Clean or replace filter media as needed, typically every 2-4 weeks, depending on aquarium conditions and bioload.

1. **Disconnect Power:** Always unplug the filter from the power source before performing any maintenance.
2. **Close AquaStop Valve:** Turn the AquaStop valve to the closed position to prevent water flow from the aquarium.
3. **Remove Motor Head:** Use the Lift-Lock motor head clamps to release and remove the motor head from the canister.
4. **Access Media Baskets:** Utilize the EZ-Lift media baskets' center handle to remove the entire media stack from the canister. This design minimizes mess and eliminates the need to empty the canister of water beforehand.

- 5. **Clean/Replace Media:** Rinse mechanical media (foams) in old aquarium water to preserve beneficial bacteria. Replace chemical media (carbon, Quick-Clear) as directed by the manufacturer. Biological media (Bio-Foam+, Biomax) should only be rinsed gently if heavily soiled.
- 6. **Clean Impeller:** Inspect and clean the impeller and its housing for any debris or blockages.
- 7. **Reassemble:** Reassemble the media baskets, place them back into the canister, and secure the motor head with the Lift-Lock clamps.
- 8. **Restart Filter:** Reopen the AquaStop valve, prime the filter if necessary, and plug it back into the power source.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Fluval 407 Canister Filter.

Problem	Possible Cause	Solution
No water flow or reduced flow	- Air in the system - Clogged intake strainer or hosing - Dirty filter media - Impeller blocked or damaged - AquaStop valve not fully open	- Re-prime the filter using the quick primer. - Clean intake strainer and hosing. - Clean or replace filter media. - Inspect and clean/replace impeller. - Ensure AquaStop valve is fully open.
Loud noise or rattling	- Air trapped in the filter - Impeller not seated correctly or damaged - Filter not level	- Re-prime the filter to expel air. - Check and re-seat/replace the impeller. - Ensure the filter is on a stable, level surface.
Water leaking from connections	- Loose hose connections - Damaged O-rings or gaskets - AquaStop valve not properly sealed	- Tighten all hose connections. - Inspect and replace O-rings/gaskets if damaged. - Ensure AquaStop valve is securely attached and sealed.

7. SPECIFICATIONS

Feature	Detail
Brand	Fluval
Model Name	Performance Canister Filter - 407
Item Model Number	A449
Size	407

Feature	Detail
Color	Black
Material	Plastic
Power Source	Corded Electric
Voltage	230 Volts (AC)
Maximum Flow Rate	1450 Liters Per Hour (383 US Gal/h)
Item Weight	4.4 Kilograms (9.7 Pounds)
Product Dimensions (LxWxH)	7.09 x 9.45 x 19.29 inches (18 x 24 x 49 cm)
Country of Origin	Italy
UPC	015561104494

DIMENSIONS



Figure 6: Fluval 407 filter dimensions. This diagram shows the height as 19.3 inches (49 cm), width as 9.5 inches (24 cm), and depth as 7 inches (18 cm).



	107	207	307	407
UPC	015561104401	015561104432	015561104463	015561104494
AQUARIUM*	10-30 US Gal (40-130 L)	20-45 US Gal (60-220 L)	40-70 US Gal (90-330 L)	50-100 US Gal (150-500 L)
PUMP PERFORMANCE	145 US Gal/h (550 L/h)	206 US Gal/h (780 L/h)	303 US Gal/h (1150 L/h)	383 US Gal/h (1450 L/h)
VERTICAL PRE-FILTER	514 cm ²	803 cm ²	803 cm ²	1074 cm ²
BASKET VOLUME	1.2 L	1.8 L	3.1 L	4.2 L
TOTAL CHAMBER VOLUME	2.0 L	3.1 L	4.51 L	6.0 L
CANISTER VOLUME	3.9 L	5.3 L	7.3 L	9.2 L
FILTER DIMENSIONS	7.5" x 7" x 13.7" (19 x 18 x 35 cm)	7.5" x 7" x 16.5" (19 x 18 x 42 cm)	9.5" x 7" x 16.5" (24 x 18 x 42 cm)	9.5" x 7" x 19.3" (24 x 18 x 49 cm)
FILTER CIRCULATION**	95 US Gal/h (360 L/h)	121 US Gal/h (460 L/h)	206 US Gal/h (780 L/h)	245 US Gal/h (930 L/h)
MAX WATER COLUMN HEIGHT	1.45 m	1.45 m	1.75 m	2.25 m
WATTAGE				
120V/60HZ:	10 W	10 W	16 W	23 W
230-240V/50HZ:	10 W	10 W	15 W	20 W

*Aquarium recommendations are based on North American (US Gal) or European (L) standard aquarium usage

**Flow rates were measured with intake and output hoses of the same length

Figure 7: Fluval 07 series filter comparison. This table provides specifications for models 107, 207, 307, and 407, including recommended aquarium size, pump performance, pre-filter volume, total chamber volume, canister volume, filter dimensions, filter circulation, max water column height, and wattage.

8. COMPATIBLE ACCESSORIES

The Fluval 407 filter is compatible with various Fluval accessories to enhance water clarity and filtration.

CLEAR WATER MADE EASY

Easily connected to all 07 Series canister filters, the **Fluval UVC In-Line Clarifier** eliminates green and cloudy water for a healthy aquarium. Harness the natural, purifying power of UVC light for a chemical-free alternative to clear water.



Figure 8: Fluval UVC In-Line Clarifier. This accessory, sold separately, connects to 07 Series canister filters to eliminate green and cloudy water using UVC light.

9. WARRANTY INFORMATION

For detailed warranty information, please refer to the manufacturer's official website. The warranty covers defects in materials and workmanship under normal use.

10. CUSTOMER SUPPORT

For further assistance, technical support, or to purchase replacement parts, please visit the official Fluval website or contact their customer service department.

You can also find more information and products at the [Fluval Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

If I am moving, what steps must be taken to shut down, move, and restart the Fluval 407 canister filter?

To safely move your Fluval 407 canister filter, follow these steps based on the official maintenance and setup procedures:1. Shutting Down and DisconnectingUnplug the Unit: Always disconnect the filter from the power source before...

[Read full answer](#)