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› HIBLOW HP-20 Aerator Instruction Manual

Hiblow HP 20

HIBLOW HP-20 Aerator Instruction Manual

Model: HP 20

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your HIBLOW HP-20 linear air pump. The HP-20 is designed for aeration in backyard ponds, Koi ponds, and septic systems, offering reliable and energy-efficient performance. Please read this manual thoroughly before using the product.



Image 1.1: Front view of the HIBLOW HP-20 Aerator. This image shows the compact design of the unit, highlighting its robust casing and air outlet.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the unit:

- Ensure the power supply matches the unit's specifications (110-120V AC).
- Do not immerse the aerator in water. It is designed for outdoor use but must be protected from direct rain and harsh weather conditions.
- Always disconnect power before performing any maintenance or inspection.
- Keep children and pets away from the operating unit.
- Do not block the air intake or outlet. Ensure adequate ventilation around the unit.
- Use only approved accessories and replacement parts.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- HIBLOW HP-20 Linear Air Pump Unit
- Hose connector: 5/8" ID 90-degree L tube with clamp
- Instruction Manual (this document)

Note: A barb fitting for tubing connection is not included and must be acquired separately.

4. SETUP AND INSTALLATION

4.1 Placement

- Place the HP-20 on a stable, level surface in a well-ventilated area.
- Ensure the unit is protected from direct sunlight, rain, snow, and excessive dust. A protective enclosure is recommended for outdoor installations.
- Position the aerator above the water level to prevent water backflow into the unit.

4.2 Tubing Connection

1. Attach the provided 5/8" ID 90-degree L tube connector to the air outlet of the HP-20. Secure it with the clamp.
2. Connect your aeration tubing to the barb fitting (not included) on the L tube connector.
3. For optimal performance and aerator life, use a medium bubble diffuser (3mm-5mm) at the end of your tubing in the water.
4. **Tubing Recommendations:**
 - For distances between 50-100 feet, use 1/2" ID tubing.
 - For distances 100 feet or more, use 3/4" ID tubing.

4.3 Electrical Connection

- Plug the aerator into a grounded 110-120V AC electrical outlet.
- Ensure the electrical connection is protected from moisture.
- The HP-20 is UL rated for safety.

5. OPERATION

Once properly installed and connected, the HIBLOW HP-20 aerator will begin operating immediately upon receiving power. It is designed for continuous, quiet, and energy-efficient operation.

5.1 Benefits of Aeration

- **Pond Aeration:** The HP-20 is suitable for ponds up to 7,000 gallons at a maximum depth of 6 feet. It helps maintain healthy oxygen levels for aquatic life, keeps water clean and clear, and circulates water to evenly distribute oxygen and temperature.
- **Septic Aeration:** Provides essential oxygen for aerobic bacteria in septic systems, improving waste breakdown efficiency.

Pond Size	Model	Max Depth	Power Consumption (Watts)	Noise Level (dBA)
Up to 7,000 gallons	HP-20	6'	17	32
Up to 16,000 gallons	WG-2	6-8'	28	40
	XP-40	6-8'	30	33
	HP-40	10'	38	32
Up to 1/4 acre	WG-3	6-8'	45	45
	XP-60	6-8'	39	35
	HP-60	10'	51	35
Up to 1/2 acre	WG-4	6-8'	65	45
	XP-80	6-8'	58	36
	HP-80	10'	71	36
Up to 3/4 acre	HP-100LL	10'	75	42
Up to acre	HP-120LL	10'	100	42
Up to 1.5 acres	HP-150	10'	155	45
Up to 2 acres	HP-200	10'	250	46

**HIBLOW recommendations are general guidelines for selecting a pump.*

Scan the QR code or check out our website (address below) to learn more about other factors that you may consider when choosing a pump.



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<https://www.hiblow-usa.com/applications-guide/pond-aquaculture/>

Image 5.1: HIBLOW Pond Aeration Pump Sizing Recommendations. This table provides guidelines for selecting the appropriate HIBLOW pump model based on pond size, maximum depth, power consumption, and noise level. The HP-20 is highlighted for ponds up to 7,000 gallons at 6 feet depth.

6. MAINTENANCE

The HIBLOW HP-20 is designed for durability and features oil-free operation, minimizing routine maintenance. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Regular Inspection:** Periodically check the air filter for dust and debris. Clean or replace as necessary to maintain airflow.
- **Tubing and Diffuser:** Inspect aeration tubing and diffusers for blockages, kinks, or damage. Clean diffusers as needed to ensure consistent bubble production.
- **Diaphragm Replacement:** The linear diaphragm is a wear component. While designed for long life, reduced airflow or increased noise may indicate the need for diaphragm replacement. Replacement kits are available from authorized dealers.
- **Thermal Overload Protection:** The unit is equipped with thermal overload protection. If the pump overheats, it will shut down automatically to prevent damage. Allow the unit to cool down before attempting to restart. Address any potential causes of overheating, such as blocked airflow or excessive back pressure.

7. TROUBLESHOOTING

If you encounter issues with your HIBLOW HP-20, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Pump not operating	No power supply	Check power outlet, circuit breaker, and power cord connection.
	Thermal overload activated	Disconnect power, allow unit to cool for 30-60 minutes. Check for airflow obstructions or excessive back pressure. Reconnect power.
Reduced airflow	Clogged air filter	Clean or replace the air filter.
	Kinked or blocked tubing/diffuser	Inspect tubing and diffuser for obstructions. Clear any blockages.
	Worn diaphragm	Contact customer support for diaphragm replacement kit.
Excessive noise/vibration	Loose components	Ensure the unit is on a stable surface. Check for any loose screws or parts.
	Worn diaphragm	Contact customer support for diaphragm replacement kit.

If the problem persists after attempting these solutions, please contact HIBLOW customer support.

8. SPECIFICATIONS

Technical specifications for the HIBLOW HP-20 Aerator:

Feature	Specification
Model	HP 20
Rated Voltage	AC 110-120V
Power Supply Frequency	60 Hz
Rated Loading Pressure	9.8 kPa (1.42 PSI)
Airflow Volume	18 L/min (0.64 CFM)
Power Consumption	17 W
Noise Level	31 dBA
Item Weight	3.2 kg (7.05 lbs)
Package Dimensions	10.59 x 8.11 x 6.73 inches
Max Pond Size (Aeration)	Up to 7,000 gallons
Max Aeration Depth	6 feet
Manufacturer	Hiblow U.S.A.

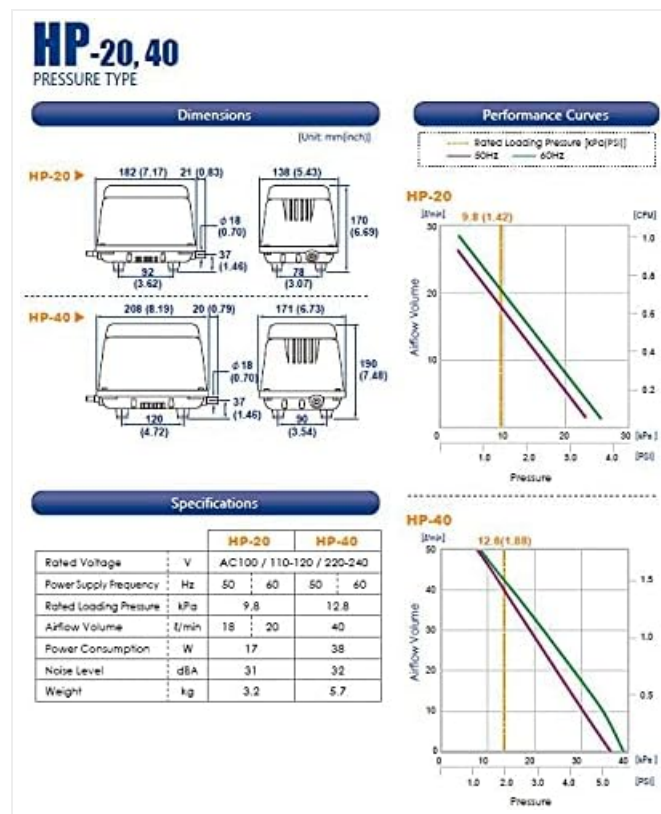


Image 8.1: Technical diagram for HIBLOW HP-20 and HP-40 models. This image displays detailed dimensions, performance curves illustrating airflow volume versus pressure, and a specifications table for both models. The HP-20 specifications are listed for comparison.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact HIBLOW U.S.A. directly.

HIBLOW U.S.A.

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Website: www.hiblow-usa.com

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