HEATHRO

Fish Pump™

Owner's Manual

To Our Customer……

Thank you for your purchase and welcome to the PRAqua family of quality products.

This manual has been prepared to ensure that your investment is protected by assisting you in attaining maximum performance and longevity of your new Fish Pump. Like all machines, our Fish Pump™ requires proper set-up and periodic maintenance to reliably perform at maximum capacity for extended periods of time.

We have made considerable effort to make this manual concise, clear and helpful. If you encounter any difficulty with it, please let us know so we can remedy the problem.

Don't wait until all else has failed!
Read this manual first!
A few moments spent now may save many hours, and dollars, later.

Additional copies of this manual are available at no cost from your dealer. Ask us for a personal copy for your serviceman or manager today!

PRAqua Supplies Ltd. can be reached by phone at 250-754-4844.

PRAqua Supplies Ltd.
Fax: 250-754-9848

Before You Begin.....(please read)

Unpacking

Since your machine requires no assembly, it is advisable to leave it in the crate until it is at its installation site. Once the crate is removed, check your Fish Pump for any noticeable damage to control panel, motors and fiberglass housing before attempting to operate, (electric model fig.1). For Hydraulic model Fish Pump (fig.2), check all hoses and flow controls for any signs of damage or leaks, as well as hoses and oil levels on and in the Power Pack, (if applicable).

ELECTRIC MODEL

Fig. 1

HYDRAULIC MODEL

Fig. 2

Environment

The Heathro Fish Pumps are designed to work in most weather conditions, except freezing temperatures. Operating at freezing temperatures can cause damage to hoses and Priming System. Your Fish Pump is equipped with 2 heavy duty Pneumatic tires which can support up to 400 kilo's per tire, this enables the Heathro to travel over almost any terrain.

Your Heathro Fish Pump is designed to move fish up to 400 grams. It is not recommended for pumping fine rocks or gravel.

Electrical Requirements

A qualified electrician must be employed to ensure the appropriate electrical power and male plug end is properly connected to your Fish Pump™. Proper grounding procedures must be followed and care taken to ensure that low voltages caused by long wire runs or overloaded circuits are corrected.

TESTING YOUR HEATHRO FISH PUMP

Electric Models with Control Panels

BEFORE YOU PLUG IN YOUR FISH PUMP:

1. Ensure that the Impellor switch and Prime Pump switch on the control box cover are both set to 'OFF'.
2. Make sure the water reservoir is filled with water up to the overflow.
3. Inspect the Heathro for evidence of shipping damage or obstructions.

PLUG IN YOUR FISH PUMP

4. Ensure that the POWER pilot light (Amber) is on.
5. Ensure vacuum valve is in the closed position, (located on top of inlet elbow).

SWITCH THE PRIME PUMP TO 'RUN'

6. Ensure that the RUN pilot light (Green) is on.
7. Ensure that the Prime Pump is turning.
8. Ensure that water is recirculating through Priming System hoses.

SWITCH THE PRIME PUMP TO 'OFF'

SWITCH THE IMPELLOR TO 'RUN'

9. Ensure that the RUN pilot light (Green) is on.
10. Ensure that the Impellor is turning in a counter clockwise direction, (looking down at pump).

NOTE: If the impellor is turning the wrong way, unplug the Heathro and switch any 2 wires on the main power cord in the the control panel.

11. Ensure that the belts are not slipping.

SWITCH THE IMPELLOR TO 'OFF'

Hydraulic Models with Flow Controls

BEFORE YOU START YOUR HYDRAULIC FISH PUMP:

1. Inspect the Heathro Fish Pump™ for evidence of shipping damage or obstructions.
2. Ensure that the both flow controls are set to the "off" position (upright).
3. Ensure that the water reservoir is filled to the overflow.
4. Ensure that the vacuum valve is in the closed position, (located on top of inlet elbow).

BEFORE YOU START UP THE POWER PACK

5. Inspect the Power Pack for evidence of shipping damage or obstructions.
6. Ensure there is gas in tank.
7. Ensure oil level in Honda Motor is full.
8. Ensure hydraulic oil level in the hydraulic tank is ¾ full, (DO NOT OVERFILL)

CONNECT POWER PACK TO FISH PUMP

TURNING ON PRIME PUMP

9. Start up Power Pack and idle at ¼ throttle for 30 seconds, then ramp up to ½ throttle or higher.
10. Turn the Prime Pump Flow control on (down position).
11. Ensure Prime Pump is turning.
12. Ensure that water is recirculating through Priming System hoses.

TURN OFF PRIME PUMP

TURNING ON IMPELLOR PUMP

13. Turn Impellor flow control on, (down position).
14. Ensure Impellor is turning in the counter clockwise direction, (looking down on pump). The only way to do this is by opening the check valve flapper on the Fish Pump outlet and look to see which way the impellor is spinning, turn Impellor speed down to minimum for this.

TURN OFF IMPELLOR PUMP AND POWER PACK

FIRST TIME IN-SERVICE START-UP (ELECTRIC MODEL)

1. Ensure vacuum valve is in the closed position.
2. Ensure water reservoir is filled to overflow elbow.
3. Ensure Inlet and Outlet hoses are in place.
4. Plug in and ensure 'POWER' light is on.
5. Turn Prime Pump Switch to 'ON' position.

FIRST TIME IN-SERVICE START-UP (HYDRAULIC MODEL)

6. Ensure vacuum valve is in the closed position.
7. Ensure water reservoir is filled to overflow elbow.
8. Ensure Inlet and Outlet hoses are in place.
9. Hook up Power Pack to Fish Pump, Start up Power Pack.
10. Turn Prime Pump flow control on, (down position).

For Hydraulic and Electric Models, Wait, Watch, and Expect To See This……

At startup, the Prime Pump will be switched to 'ON' position. You will see water rising up the inlet hose until it reaches the inlet elbow, it will take approx. 30 seconds for the FRP housing to fill with water. When 'Heathro' is primed you will see water flowing out of the Overflow Elbow on the stainless steel water reservoir. Turn the Impellor Pump Switch 'ON' and turn the speed pot up to the max, until you see that the 'Heathro' is pushing water. The Fish Pump will shake at first until all the air is purged from the inlet hose, once this is done Fish Pump will run smoothly.

NOTE: Let Prime Pump run for approx 10-20 seconds after primed or until you see that water is being moved. Shut off Prime Pump.

Use speed pot to control flow of water. If you need to stop pumping, simply turn off the speed pot. Turn speed pot back up to desired position to continue pumping, as 'Heathro' will hold it's prime. In the event that the 'Heathro' loses it's prime, turn Prime Pump switch to 'ON' position until water flows out of the overflow elbow on water reservoir.

When you are finished pumping, open the vacuum valve to release the pressure and water from inlet hose.

NOTE: The water reservoir does not need to be emptied after each use, only empty the reservoir if you are storing 'Heathro' for the season or winter, etc.

MAINTENANCE

After initial 24 hours of operation:

1. Check belt tension (Electric Model).
2. Check oil levels (Hydraulic Model).

Daily Maintenance:

1. Check Camlock fittings.
2. Check mechanical parts.
3. Check fluid levels (Hydraulic Model).

Weekly Maintenance:

1. Grease wheels

Note:
The primary purpose of this maintenance function is to prevent ingress of water into wheel bearing. Add grease until grease discharges from bearing seals.

2. Clean any debris from inside Belt Guard

60 day Maintenance:

1. Check lubrication and oil levels if applicable.
2. Check belts for any sign of wear if applicable.
3. Check tire pressure
4. Check all hoses for leaks or any damage

WARRANTY TERMS AND CONDITIONS OF SUPPLY

PRAqua Supplies Ltd. accepts responsibility for defects that appear within (1) year from the date that the equipment was received from PRAqua Supplies Ltd. on condition that the equipment has been assembled used and maintained in accordance with the instructions for assembly and use.

PRAqua Supplies Ltd. undertakes to repair all defects that are due to faults in the design, material or manufacture of the equipment. Such defects will be corrected by repairing the equipment, or replacing components.

PRAqua Supplies Ltd. accepts corresponding responsibility for original parts it has supplied as replacements, for a period of on (1) year from the date supplied.

PRAqua Supplies Ltd. will not be responsible for:

- Incorrect assembly, installation and use, or inadequate maintenance.
- Defects which result from the fitting of materials, components or devices not supplied by PRAqua Supplies Ltd., and which are purchased and fitted by the buyer.
- Defects due to changes made to the equipment by the purchaser, without the written consent of PRAqua Supplies Ltd.
- Faulty or inadequate repairs carried out by the purchaser.
- Normal wear and tear of the equipment.
- Faulty connection of electrical and/or hydraulic lines.
- Damage to electrical supply cables and/or hydraulic lines.
- Any economic loss that may arise from production stoppage.

If faults or defects appear in the equipment, the buyer must report this in writing as soon as possible, and without unjustified delay, to PRAqua Supplies Ltd. or its appointed representative.

If the purchaser does not inform the PRAqua Supplies Ltd. representative within the warranty period, the purchaser looses the right to claim compensation from faults or defects.

Correction of the equipment shall be under the terms indicated above.

Wayne Gorrie
President, PRAqua Supplies Ltd.

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Standard Parts for Heathro Pump

Item No.	Description	Part Number.
1	Coupler element	590030A
2	Cover for the coupler element	590031A
3	Impellor for the Jabsco priming pump	990142A
4	Adapter ring for the motor	270008A
5	Jabsco shaft seal	990143A
6	EDPM rubber check valve gasket and the aluminium plate	790055A
7	Drive belt	540018A
8	Jabsco gasket	990141A