WARNING 

Buyer/User Assumes All Responsibility For Safety And Proper Use Not In Accordance With The Directions And Safety Labels.

1011 Avenida Acaso, Ste. A, Camarillo, CA 93012, | www.RioPump.net

TAAM INC.

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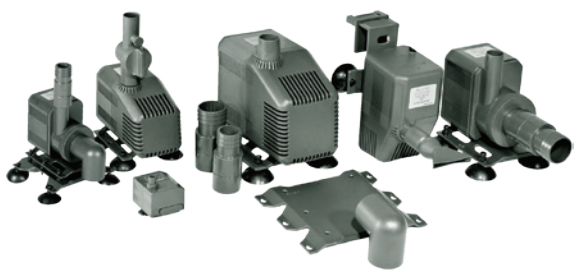
Rio® HyperFlow
PROFESSIONAL GRADE WATER PUMP

- Reliable & Easy installation
- Vortex rotor blade
- High flow rate
- Rare-earth magnet
- Multi-purpose
- Powerful & efficient compact
- Streamlined & quiet operation
- Ceramic shaft and bearings
- Low heat emission
- Affordable
- Fully submersible
- Energy efficient design



Please Start Pump in Water ONLY. DO NOT Run Pump in Air

WARNING AND SAFEGUARDS

Read and follow the guidelines to ensure the proper use and application of this Rio® HyperFlow™ Pump. Failure to follow these guidelines may result in damage to the pond and serious injury.

Operation and safety Precautions:

The National Code requires that a GFCI (Ground Fault Circuit Interrupter) be utilized in the branch circuit supplying all water pump and aquarium electrical equipment. If you do not have a GFCI, please see your local electrical supplier for this device.

Important Warning and Safeguards

- ***Do not operate pump with Rio® HyperFlow™ Pump without being fully submersed at all times. Doing so can cause permanent damage to the pump.***
- ***Never operate Rio® HyperFlow™ Pump with an electronic wave maker or timing device. As such devices will cause permanent damage to the pump and/or demagnetize the magnetic impeller.***
- ***Prior to maintenance on any electrical aquarium appliance or maintenance to the aquarium, you must disconnect all electrical aquarium devices.***
- ***Routine maintenance is required to ensure the maximum performance and the longevity of Rio® HyperFlow™ Pump. See Maintenance Guidelines***
- ***The national code requires all aquarium equipment to be plugged into a GFCI (Ground Fault circuit Interpreter) electrical outlet***
- ***Do not operate if wire is damaged***
- ***Do not plug into an extension cord***
- ***Do not plug into a power strip, Always plug the pump directly to a GFCI outlet using a drip loop***
- ***Rio® HyperFlow™ Pump is designed to run completely submerged in water. Do not operate pump outside of water! This pump should be submerged in water before connecting to a power source.***
- ***Rio® HyperFlow™ Pump may be utilized in either fresh water or salt water but not in foreign fluids, flammable liquids or any chemical***

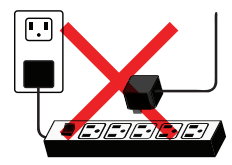
WARNINGS!

This product may contain chemicals known to the state of California to cause cancer and or birth defects or other reproductive harm. Wash your hand after handling this product.

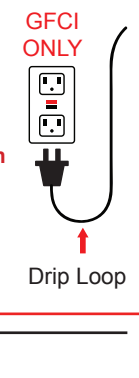
It is your sole responsibilities to verify that the plug and the receptacle are clean and free of moisture and salt build up at all times. The receptacle must be free of water, salt, calcium, magnesium and dust. Failure to do so can cause fire, damage to property, permanent damage to the product and personal injury not limited to loss of life.

Do not plug into extension cord/power strip.

A drip loop must be used when plugging all electrical aquarium devices. A drip loop is that part of the cord hanging below the receptacle.



The national code requires that a GFCI (Ground fault circuit interrupter) be used in the branch circuit supplying all power to water pumps and electrical aquarium equipment. If you do not have a GFCI, have an electrician install one prior to operating any aquarium component.



Note: It is important that the right pump and flow rate is being used for the given specific application. Use the flow chart to determine the proper size pump and tubing to be used for given application.

APPLICATION I: FOUNTAINS & WATERFALLS

Rio® HyperFlow™ Pump is designed to run completely submerged in water. Do not operate pump outside of water! This pump should be submerged in water before connecting to a power source. Rio® HyperFlow™ Pump may be utilized in either fresh water or salt water but not in foreign fluids, flammable liquids or any chemical.

Application for: Mini 150 & Mini 200

1. ***Follow all warning and safeguards.***
2. Out of the box this pump comes fully assembled.
3. Connect ⅜ in ID flexible tubing directly to the pump and secure with a hose clamp (not included).
4. Submerse in water and plug directly to a GFCI outlet.
5. Flow control is located on the bottom of the pump. Do not reduce flow more than 30%. Adjust flow as needed by sliding the flow control.

Application for: 4HF – 10HF

1. ***Follow all warning and safeguards.***
2. Remove main housing strainer and sponge pre-filter.
3. Attach suction cup bracket, bushings, vibration plate and suction cups together.
4. Slide on suction cup bracket set (part 10 to part 13) onto motor housing.

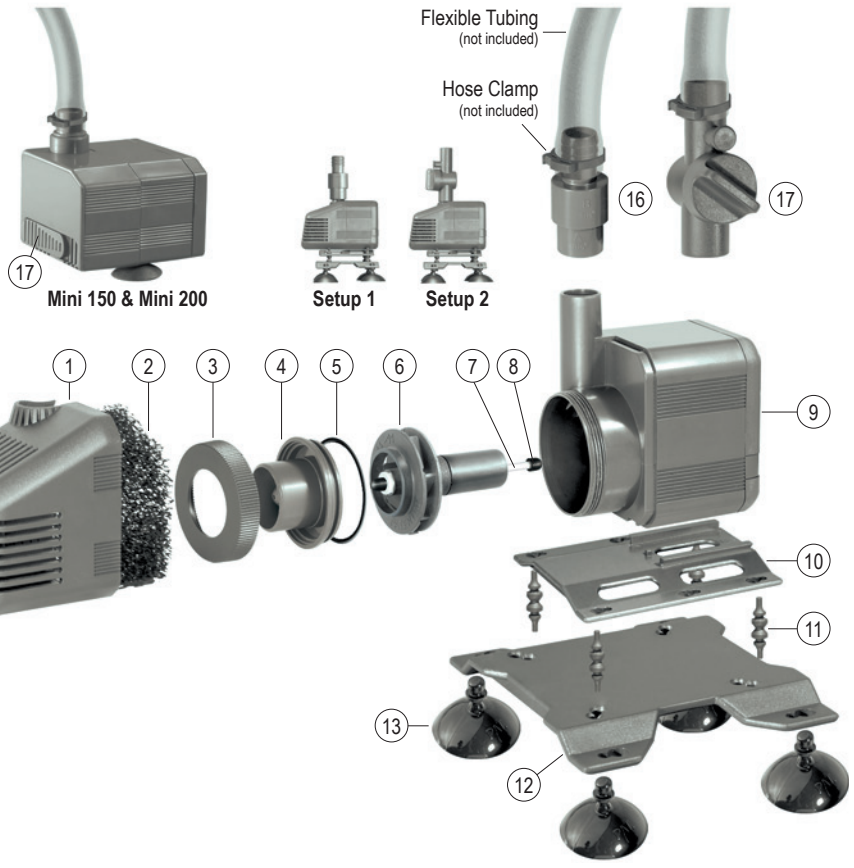
5. **Output:** Connect either outlet pipe adapter or flow control directly to flexible tubing and secure with a hose clamp.
   Note: 4HF – 6HF use ⅝ in ID flexible tubing
   8HF – 14HF use ¾ in ID flexible tubing
6. **Input:** Connect main housing strainer with sponge pre-filter .
7. Submerse pump in water and plug directly to a GFCI outlet.

Application for: 12HF – 32 HF

1. ***Follow all warning and safeguards.***
2. Remove main housing strainer and sponge pre-filter.
3. Attach suction cup bracket, bushing, vibration plate and suction cups together.
4. Slide on suction cup bracket set (part 10 to part 13) onto motor housing.
5. **Output:** Connect outlet pipe adapter directly to flexible tubing and secure with a hose clamp.
   Note: 8HF – 14HF use ¾ in ID flexible tubing
   17HF – 32HF use 1 in ID flexible tubing
6. **Input:** Connect main housing strainer with sponge pre-filter.
7. Submerse pump in water and plug directly to a GFCI outlet.

Part List for Application I

1. Main housing strainer
2. Sponge pre-filter
3. Housing endcap retainer
4. Housing endcap
5. O-ring
6. Vortex impeller assembly
7. Ceramic shaft
8. Shaft endcap
9. Motor housing
10. Suction cup bracket
11. Bushings
12. Vibration plate
13. Suction cup
16. Outlet pipe adapter
17. Flow control



Flexible Tubing Size:
Mini 150 – 200: ⅜ in ID
4HF – 6HF: ⅝ in ID
8HF – 14HF: ¾ in ID
17HF – 32HF: 1 in ID

APPLICATION II: IN-TANK CIRCULATION

Do not run on wavemakers or timers!

Rio® HyperFlow™ Pump is designed to run completely submerged in water. Do not operate pump outside of water! This pump should be submerged in water before connecting to a power source. Rio® HyperFlow™ Pump may be utilized in either fresh water or salt water but not in foreign fluids, flammable liquids or any chemical.

Do not run Rio® HyperFlow™ Pump without main housing strainer and sponge pre-filter

Application for: 4HF – 14 HF

1. ***Follow all warning and safeguards***
2. Remove main housing strainer and sponge pre-filter
3. Options to secure to the aquarium:
   Suction cups: Attach suction cups to suction cup bracket and slide onto motor housing.
   Pump Hanger: Attach suction cups to pump hanger and slide pump hanger onto motor housing.
   Magnet Mount: Slide Magnet Mount onto motor housing. *Note: Magnet Mount is not included. Rio® Magnet mounts are available for Rio® HyperFlow™ Pump (See other side for Magnet Mount list).These can be used instead of suction cups or pump hanger to secure the pump to the aquarium.*

4. **Output:** Connect duck-bill directly to the pump
5. **Input:** Connect main housing strainer with sponge pre-filter.
6. Submerse pump in water and plug directly to a GFCI outlet.

Application for: 17HF – 32HF

1. ***Follow all warning and safeguards***
2. Remove main housing strainer and sponge pre-filter.
3. Attach suction cups to suction cup bracket and slide onto motor housing.
4. **Output:** Connect duck-bill directly to the pump
5. **Input:** Connect main housing strainer with sponge pre-filter.
6. Submerse pump in water and plug directly to a GFCI outlet.

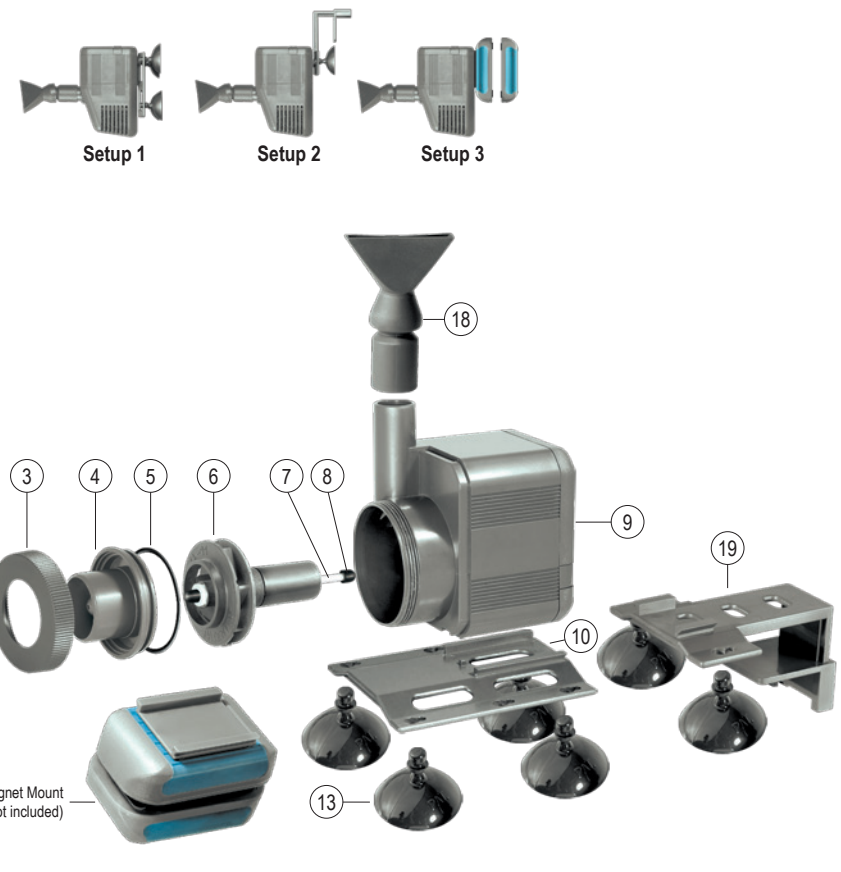
Note: Careful attention must be taken in regards to overwhelming your fish and environment, avoid excess turbulent water currents!

APPLICATION III: WET/DRY FILTRATION SYSTEMS, PROTEIN SKIMMER & SUMPS

Rio® HyperFlow™ Pump is designed to run completely submerged in water. Do not operate pump outside of water! This pump should be submerged in water before connecting to a power source. Rio® HyperFlow™ Pump may be

Part List for Application II

1. Main housing strainer
2. Sponge pre-filter
3. Housing endcap retainer
4. housing endcap
5. O-ring
6. Vortex impeller assembly
7. Ceramic shaft
8. Shaft endcap
9. Motor housing
10. Suction cup bracket
13. Suction cup
18. Duck-bill
19. Pump Hanger



utilized in either fresh water or salt water but not in foreign fluids, flammable liquids or any chemical.

Wet/Dry filtration and sumps: Verify that the pump size is proper for the application. Use the flow chart to determine the proper water flow and tubing size. Do not reduce water flow of the pump by more than 15% using a control valve

Application for: 4HF–32HF

1. ***Follow all warning and safeguards***
2. Remove main housing strainer and sponge pre-filter
3. Attach suction cup bracket, bushinga, vibration plate and suction cups together.
4. Slide on suction cup bracket set (part 10 to part 13) onto motor housing.
5. **Output:** Connect either outlet pipe adapter or flow control directly to the flexible tubing and secure with a hose clamp.
   Note: 4HF – 6HF use ⅝ in ID flexible tubing
   8HF – 14HF use ¾ in ID flexible tubing
   17HF – 32HF use 1 in ID flexible tubing
   Note: Flow control is only an option for 4HF-10HF
6. **Input:** Connect either main housing strainer with sponge pre-filter or remove main housing strainer and sponge pre-filter and replace with either the intake elbow or the intake pipe adapter.
7. Submerse pump in water and plug directly to a GFCI outlet.

Helpful Hints:

1. The use of a float valve will help ensure a consistent water level and ensure the pump will operate fully submersed at all times.
2. If the pump is making excess noise verify that the pump is free standing and is not vibrating against the wall of the sump.
3. Excess noise can be caused using to small of tubing or restricting flow by more than 15%

IMPORTANT: Do to the design of Wet/Dry Filtration and Sumps, there is a high amount of evaporation and failure maintain a consistent water level or the daily addition of top off water will cause the pump to operate without being fully submersed. If the pump is not operated fully submersed imminent malfunction to the pump will occur, thus resulting in loss of live stock and/or injury or loss of life. If the pump is not operated fully submersed at all times the warranty is void.

Protein Skimmers: Refer to the protein skimmer manufacture guidelines for applying the pump to the specific skimmer.

Part List for Application III

1. Main housing strainer
2. Sponge pre-filter
3. Housing endcap retainer
4. Housing endcap
5. O-ring
6. Vortex impeller assembly
7. Ceramic shaft
8. Shaft endcap
9. Motor housing
10. Suction cup bracket
11. Bushings
12. Vibration plate
13. Suction cup
14. Intake pipe adapter
15. Intake elbow
16. Outlet pipe adapter
17. Flow control

Flexible Tubing Size:
Mini 150 – 200: ⅜ in ID
4HF – 6HF: ⅝ in ID
8HF – 14HF: ¾ in ID
17HF – 32HF: 1 in ID

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Rio® HyperFlow PROFESSIONAL GRADE WATER PUMP

AVAILABLE MODELS

Item No.	Description	UPC No. 0006760
Rio Mini 150	40 GPH Water Pump	0779 2
Rio Mini 200	53 GPH Water Pump	0778 5
Rio 4HF	260 GPH Water Pump	0774 7
Rio 6HF	350 GPH Water Pump	0773 0
Rio 8HF	550 GPH Water Pump	0772 3
Rio 10HF	660 GPH Water Pump	0771 6
Rio 12HF	750 GPH Water Pump	0770 9
Rio 14HF	840 GPH Water Pump	0769 3
Rio 17HF	1090 GPH Water Pump	0768 6
Rio 20HF	1290 GPH Water Pump	0767 9
Rio 26HF	1590 GPH Water Pump	0766 2
Rio 32HF	1920 GPH Water Pump	0765 5

REPLACEMENT IMPELLER

Item No.	Description	UPC No. 0006760
IM 4HF	4 impeller assembly kit	0635 1
IM 6HF	6 impeller assembly kit	0634 4
IM 8HF	8 impeller assembly kit	0633 7
IM 10HF	10 impeller assembly kit	0632 0
IM 12HF	12 impeller assembly kit	0631 3
IM 14HF	14 impeller assembly kit	0630 6
IM 17HF	17 impeller assembly kit	0629 0
IM 20HF	20 impeller assembly kit	0628 3
IM 26HF	26 impeller assembly kit	0627 6
IM 32HF	32 impeller assembly kit	0626 9

FLOW CHART

Item No.	Watts		Dimensions L x W x H (approx.)	Gallons per hour / liters per hour			Output v	Max. head
	115V/ 60Hz	220V/ 50Hz		1ft./30cm	4ft./120cm	6ft./180cm		
Rio Mini 150	0.8	1	1.9 x 1.6 x 1.5 in	40 / 150			18mm / 0.3in	1.6ft. / 50cm
Rio Mini 200	1.8	1.5		53 / 200				2.ft. / 60cm
Rio 4HF	10	10	3.9 x 2 x 2.5 in	260 / 990	70 / 270		16mm / 0.6in	5ft. / 1.6m
Rio 6HF	15	12		350 / 1330	150 / 590			6ft. / 1.9m
Rio 8HF	30	20	4.4 x 2.3 x 2.8 in	550 / 2090	270 / 1020	80 / 300	19mm / 0.75in	6.5ft. / 2.0m
Rio 10HF	35	25		660 / 2500	360 / 1360	190 / 720		7.5ft. / 2.3m
Rio 12HF	40	35	4.9 x 2.5 x 3.2 in	750 / 2850	630 / 2390	510 /1930	19mm / 0.75in	9.5ft. / 2.9m
Rio 14HF	45	40		840 / 3190	660 / 2500	540 / 2050		10ft. / 3.0m
Rio 17HF	55	45	5.4 x 2.7 x 3.7 in	1090 / 4140	840 / 3190	660 / 2500	21mm / 0.8in	10ft. / 3.1m
Rio 20HF	60	50		1290 / 4900	990 / 3760	870 / 3300		10.8ft. / 3.3m
Rio 26HF	100	100	5.9 x 3.1 x 4.2 in	1590 / 6040	1350 / 5130	1140 / 4330	25.4mm / 1in	13 ft. / 4.0m
Rio 32HF	115	120		1920 / 7300	1500 / 5700	1300 / 4940		14ft. / 4.3m

OPTIONAL PART: MAGNET MOUNT

Item No.	Dimension L x H x W (approx.)	Rio® HyperFlow™	Glass Thickness	UPC No. 0006760
MM200	1.9 x 3.25 x 0.83in (5 x 8.3 x 2.1cm)	8HF/10HF	1/2in (12mm)	0846 1
MM300		12HF/14HF		0847 8
MM350		17HF/20HF		0869 0
MM500	2.5 x 4.3in x 1.1in (6.5 x 11x 2.9cm)	26HF/32HF	3/4in (20mm)	0848 5

TAAM INC.®

Distributed in the UK by ALF
(Aquatic Distributors) Ltd.

Made in Taiwan

Technological Aquatic Associated Manufacturing Inc.
1011 Avenida Acaso, Ste. A, Camarillo, CA 93012, USA
Fax: (805) 383-3565. www.riopump.net
Specifications & technical information may change without notice

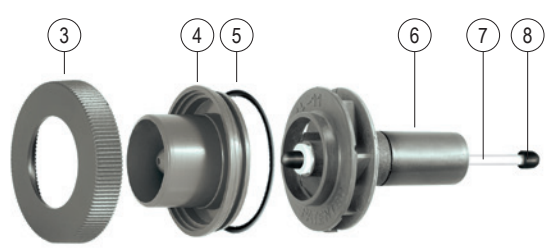
MAINTENANCE:

Preventing debris and free floating material from entering your Rio® HyperFlow™ Pump is of utmost importance to the longevity of your pump. Your pump requires regular cleaning to maintain a steady water flow. Note: Gravel, sand and calcium deposits will also diminish/damage the longevity of Rio® HyperFlow™ Pump and impeller.

1. *IMPORTANT: You must disconnect all electrical power to the aquarium and water pump before beginning the maintenance on any electrical equipment including Rio® HyperFlow™ Pump.*
2. *Do not use any type of soap or detergent to clean the Rio® HyperFlow™ Pump and parts. Remove main housing strainer and pre-filter sponge Clean and rinse of all dirt and debris. Carefully turn housing endcap retainer counter-clockwise to disconnect. Housing endcap, ceramic shaft and impeller may now be removed from motor housing. Rinse all dirt and grime off the impeller before reassembling. In environments that have a high amount of calcium it may be necessary to clean impeller in 1 part vinegar 3 parts water solution. This will breakdown calcium. Let soak for a minimun of 15 minutes. Clean well then verify that the impeller spins freely on the shaft. Note: Replace impeller or ceramic shaft if any signs of excess wear occur on impeller, ceramic shaft and/or shaft endcap. After cleaning, reassemble impeller into the pump and fasten by turning housing endcap and housing endcap retainer until snug to assure a proper seal. Shaft endcap must be on each end of impeller. Your Rio® HyperFlow™ Pump will not restart if impeller is not positioned or assembled correctly.*
3. *Impeller may need to be replaced periodically to maintain a steady output flow. Rio® HyperFlow™ Pump replacement parts, are sold at your local pet dealer or write to us, TAAM, Inc., for more information or purchasing Rio® HyperFlow™ Pump replacement parts.*
4. *Do not tamper with or replace the power cord of this appliance. If the cord is damaged, the appliance should be discarded.*

Impeller Part:

3. Housing endcap retainer
4. Housing endcap
5. O-ring
6. Vortex impeller assembly
7. Ceramic shaft
8. Shaft endcap



TROUBLESHOOTING

Problem: Pump is too noisy.
Reason & Solution:

- Wrong size flexible tubing is being used. Pump is touching the wall of the filtration.
- Flow has been reduced by more than 15% using a ball valve.
- Vibration plate has not been installed.
- Main housing strainer and/or Pre-filter sponge is clogged.
- Impeller and ceramic shaft need to be cleaned.
- Broken ceramic shaft.
- Impeller was not reinstalled properly. Verify that ceramic shaft and shaft endcap is in place.
- Wrong size pump for the given application.

Problem: Pump will not start.
Reason & Solution:

- Impeller needs to be cleaned.
- Impeller will not rotate freely on ceramic shaft.
- Main housing strainer and/or Pre-filter sponge is clogged.
- GFCI has gone off and needs to be reset.
- When using a check valve and the intake elbow, air is trapped in impeller well and intake elbow. Rotate the intake elbow 180 degrees to release air then reinstall properly.
- Impeller and/or ceramic shaft are damaged and needs to be replaced.

LIMITED WARRANTY

TAAM Inc.® warrants that Rio® HyperFlow™ Pump is free from defects for a period of 6 months from the initial date of purchase shown on the original cash register receipt. TAAM Inc.® disclaims all other warranties of merchantability and/or fitness for a particular purpose. Although this limited warranty may give you specific rights, you may have other rights that may vary from state to state. This warranty is void if the failure of the controller or any part, sealant or component there of is due to (i) misuse, (ii) tampering, (iii) negligence, (iv) misapplication, (v) abuse, (vi) accident and/ or (vii) failure to properly (a) maintain, (b) clean, (c) keep free from water and moisture and/or use the controller with a Ground Fault Circuit Interrupter (GFCI).

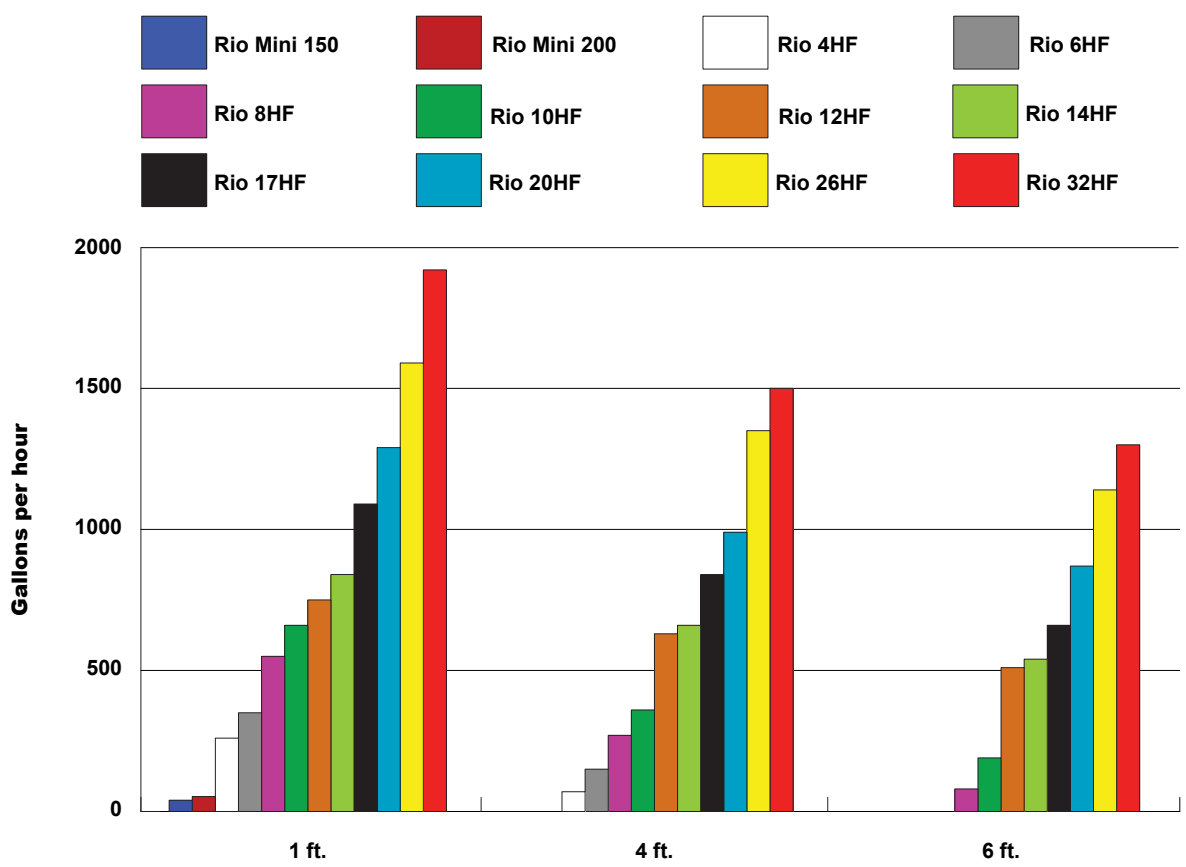
CONSUMER REMEDIES

TAAM Inc.®'s entire liability and your sole and exclusive remedy shall be either repair or replacement of Rio® HyperFlow™ Pump only if you return the defective unit directly to TAAM Inc.® with the original receipt in its original box along with seven dollars ($7.00) for shipping and handling. Do not send Rio® HyperFlow™ Pump by insured mail. You may send your returns or replacements by UPS if requiring a signature upon arrival. Any replaced unit will be warranted for the remaining time of the original warranty period. In no event shall any shipping charges be reimbursed. In no event will TAAM Inc.® be liable for any consequential or incidental damages, including but not limited to, lost sea life, personal injury, property damage, equipment damage, lost profits, lost wages, lost savings, lost income, etc., arising out of the use of Rio® HyperFlow™ Pump. Some states do not allow for the limitation or exclusion of liability for incidental or consequential damages, so the above exclusion may not apply to you.

RETURNS

Please contact our service center at (805) 383-3566 ext. 102 or fax (805) 383-3565 to arrange repair and/or replacement. Please allow 4-6 weeks for all returns.

FLOW CHART GRAPH



WARRANTY CARD

Please mail warranty card and PROOF OF PURCHASE within 15 days of purchase to:
TAAM Inc.® 1011 Avenida Acaso, Ste. A, Camarillo, CA 93012, USA.

Customer's Name: Model No.

Address: Date of Purchase

Dealer Name: Phone No.

TAAM INC.®

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Rio® HyperFlow PROFESSIONAL GRADE WATER PUMP

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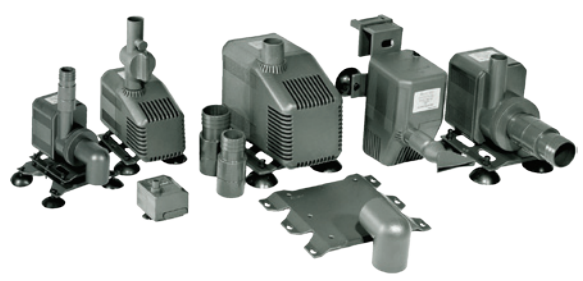

Good water circulation is critical to maintaining a healthy environment. Rio® HyperFlow™ Pump delivers high performance at an affordable price. This compact highly efficient pump uses Neopower magnetic vortex rotor blade technology to pump more gallons per watt than any same-size external pump. Rare-earth compounds pack power into a neatly compact pump. Cool and efficient operation keep energy costs low. The ceramic shaft with ceramic bushings offers strength and resists to corrosion. High-impact plastic construction makes Rio® HyperFlow™ Pump durable and reliable. Rio® HyperFlow™ Pump is fully submersible and offers the best-performance water pump on the market. Features include high flow rates, low heat output and are designed to be energy efficient keeping energy bill low, in addition providing tremendous pressure capabilities. Simply put the most compact and energy efficient pump on the market today.

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