



Established over 40 years ago, Blagdon are committed to producing a comprehensive range of high quality, easy to use, pond equipment. An ongoing programme of research and development ensures excellent performance and value for all their customers. This product excellence is demonstrated by Blagdon's award winning range of water gardening equipment. As a result, Blagdon's reputation for quality is unrivalled amongst experienced pond keepers and retailers alike.

**Blagdon - The Pond Masters**  
**The name you can rely on**

Interpet  
Dorking, Surrey, RH4 3YX

Leaflet Code: POS 0007



THE POND MASTERS  
GUIDE TO  
HYDRATECH  
**TORRENT**  
3000/4000/5500/  
8000E/10500E





# THE POND MASTERS GUIDE TO HYDRATECH TORRENT 3000/4000/5500/8000E/10500E

Congratulations on buying a Blagdon Hydratech Torrent Pump. Hydratech Torrent pumps are high quality pumps manufactured with advanced technology to run pond waterfalls, filters and features. The powerful Duplex Magflow motors are easy to maintain, having a single moving part impeller system featuring highly wear-resistant ceramic shaft and bearings.

## IMPORTANT

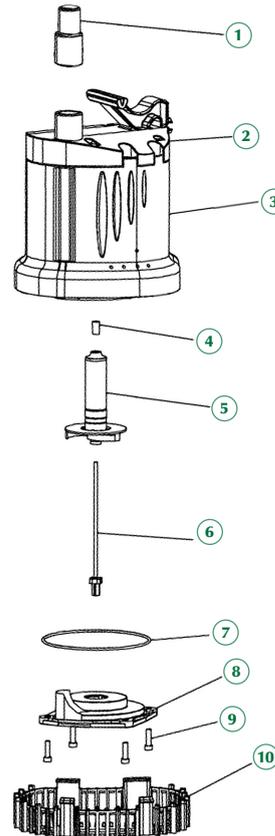
Please attach proof of purchase to this manual and file in a safe place.

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## 2. GETTING TO KNOW YOUR HYDRATECH TORRENT PUMP

### HYDRATECH TORRENT 3000/4000



No.	Name of Part	Code	
1.	Multi Hosetail		1021142
2.	Motor Cover		1021159
3.	Pump Body		-
4.	Shaft Locator		
	3000	1021166	
	4000	1021173	
5.	Impeller Assembly		
	3000	1021180	
	4000	1021197	
6.	Shaft including Locator		
	3000	1021203	
	4000	1021210	
7.	Impeller Base Plate O-Ring		
	3000	1021227	
	4000	1021234	
8.	Impeller Base Plate		
	3000	1021241	
	4000	1021258	
9.	Impeller Base Plate Locating Screws		1021265
10.	Pond Floor Intake		1021072

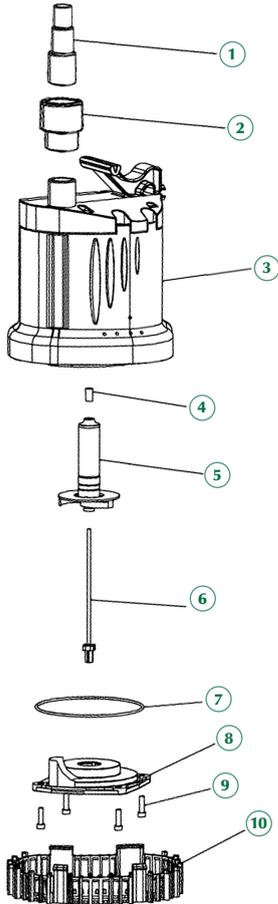
### Pump performance/flow chart

Model	3000	4000
275 cm	218	275
250 cm	590	650
225 cm	1000	1050
200 cm	1343	1400
175 cm	1687	1700
150 cm	2000	2000
125 cm	2218	2320
100 cm	2500	2625
75 cm	2718	2880
50 cm	2750	3250
25 cm	2875	3550
00 cm	3000	3875
<b>Model</b>	<b>3000</b>	<b>4000</b>

HYDRATECH TORRENT FLOW RATE IN LITRES/HOUR

## 2. GETTING TO KNOW YOUR HYDRATECH TORRENT PUMP

### HYDRATECH TORRENT 5500/8000E/10500E



No.	Name of Part	Code
1.	Multi Hosetail	1041171
2.	Adaptor	1041188
3.	Pump Body	-
4.	Shaft Locator	1041195
5.	Impeller Assembly	
	5500	1041201
	8000E	1041256
	10500E	1041287
6.	Shaft including Locator	
	5500/8000E	1041218
	10500E	1041294
7.	Impeller Base Plate	
	O-Ring	1041225
8.	Impeller Base Plate	
	5500	1041232
	8000E	1041270
	10500E	1041300
9.	Impeller Base Plate	
	Locating Screws	1041263
10.	Pond Floor Intake	1041249

### Pump performance/flow chart

Model	5500	8000E	10500E
900 cm			450
850 cm			1100
800 cm			1750
750 cm			2400
700 cm			3050
650 cm			3850
600 cm			4650
550 cm		1100	5375
500 cm		1750	6100
450 cm		2700	6650
400 cm		3450	7200
350 cm	900	4200	7725
300 cm	1600	5100	8250
250 cm	2300	5600	8775
200 cm	2900	6300	9300
150 cm	3450	6750	9625
100 cm	4250	7250	9950
50 cm	4800	7600	10225
00 cm	5450	8000	10500
Model	5500	8000E	10500E

HYDRATECH TORRENT FLOW RATE IN LITRES/HOUR

## 3. GETTING TO KNOW YOUR HYDRATECH TORRENT PUMP

### Technical Specification and Performance

HYDRATECH TORRENT	3000	4000	5500	8000E	10500E
Cable	10m	10m	10m	10m	10m
Voltage	230V	230V	230V	230V	230V
Hertz	50Hz	50Hz	50Hz	50Hz	50Hz
Watts	50W	69W	135W	140W	263W
Safety Rating	IP68 CE				
Maximum Flow	3000ltr/hr	3875ltr/hr	5450ltr/hr	8000ltr/hr	10500ltr/hr
	660gal/hr	852gal/hr	1200gal/hr	1760gal/hr	2310gal/hr
Maximum Lift	2.85m/9'3"	3.1m/10'1"	4m/13'1"	6m/19'6"	9.5m/31'2"

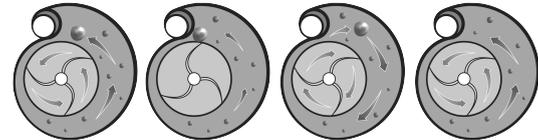
### Duplex Magflow Motor / Self-cleaning

The Hydratech Torrent pump has a unique impeller design. The self-cleaning action impeller prevents large waste from blocking the impeller.

If an object becomes trapped the blades reverse direction cutting through soft waste and throwing stones clear.

### Duplex Magflow Electronic / Soft Start / Self-cleaning

Soft Start allows the motor to slowly accelerate when switched on and during the self-cleaning cycle, increasing the life span of all moving parts.



Normal Flow

Blocked

Reverse

Normal Flow

**IMPORTANT:** The duplex action of the impeller will cause noise and intermittent flow on start up and during self-cleaning. **THIS IS NOT A FAULT.** Electronic models incorporate a soft start cleaning cycle which repeats every 30 seconds to clear the pump when blocked. Turning the pump off and on may also restart the pump. If the self-cleaning action cannot clear the blockage it will be necessary to manually remove the object from the impeller following the maintenance instructions in section 6.

## 4. INSTALLATION

### Electrical installation



The power supply must meet the specifications on the product.

The pump is intended to be used with either a weatherproof cable connector or permanently connected to the fixed wiring in the main system other than by means of a plug and socket.

The cores in the supply cable are coloured in accordance with the following code: **Brown = Live, Blue = Neutral, Green/Yellow = Earth.**

The electric cable is permanently connected and sealed in the motor body. If the supply cable is damaged the pump must not be used.

Do not use the supply cable to lift the pump as this may cause damage.



### WARNING - THIS PUMP MUST BE EARTHED

A Residual Current Device (RCD), also known as the Residual Current Circuit Breaker (RCCB), with a tripping current not exceeding 30mA must be installed in the supply circuit.

A means of disconnection from the supply having a contact separation of at least 3mm in all poles must be incorporated in the fixed wiring.

For permanent installations to the mains supply, it is necessary to conform to the regulations of the local electricity authority and this would include the use of a metal or plastic conduit to protect the cable.

Attention has been drawn to the fact that special rules may exist concerning the installation of your pond pump (i.e. local building regulations).

These pumps must not be used in swimming pools, or areas where people are in contact with the water.

Always disconnect the mains electricity supply whilst the equipment is being installed, repaired, maintained or handled. Consult a qualified electrician if in doubt about wiring this product to the mains supply.



**Warning** - The Hydratech Torrent pump is provided with a thermal cut out that temporarily switches off the pump in case of overheating and the pump may automatically restart.

## 5. INSTALLATION

### Locating your Hydratech Torrent

The Hydratech Torrent pump should be located on a firm and level base in the pond in a depth of at least 20 cm, but not more than 2m.

Allowing the pump to run dry without water will cause irreparable damage to the ceramic shaft and bearings.

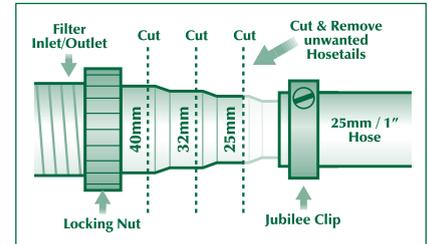
The pump can be safely run in a horizontal or vertical position.

### Connecting Hoses

Always secure hose with jubilee clip.

Warming the hose in a bucket of boiling water can aid fitting.

Always ensure that the smaller diameter hosetail is cut off and removed to prevent reduced pump performance. See diagram.



Use the shortest possible hose length to minimise flow restrictions.

Folds and kinks in the hose will reduce pump performance.

The largest hose diameter will give the maximum pump performance.

## MAINTENANCE & CLEANING



**Warning** - Failure to carry out routine maintenance, leaving the pump under reduced or no flow conditions for long periods (e.g. blocked pond floor intake) will result in a short pump life and will invalidate the guarantee.

**Blagdon Hydratech Torrent pumps** are centrifugal pumps with a magnetic impeller movement driven by a watertight synchronous motor. They require a minimum of cleaning. Only periodic cleaning of the pond floor intake and impeller is necessary.

## 6. MAINTENANCE & CLEANING

### Cleaning

The use of Blagdon Pond Pump Cleaner will give improved performance and pump life by removing built-up lime scale and waste.

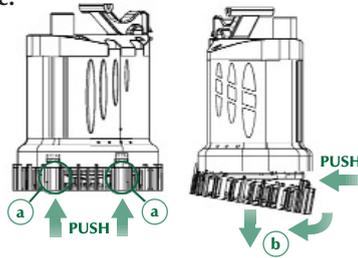
Use before dismantling for easier and cleaner handling.

### Routine Maintenance

Carry out routine maintenance when pump flow is visibly reduced.

#### Cleaning the pond floor intake.

1. Switch off electricity supply.
2. Remove the pump from the pond (do not use the cable to lift the pump).
3. Open the pond floor intake by firmly pushing in the locking tabs (a) and removing the intake (b).
4. Wash thoroughly in fresh water.  
A blocked intake will reduce pump performance.

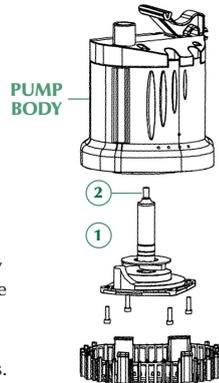


### Cleaning the Impeller

If the flow is still reduced after routine maintenance or the self-cleaning system does not stop after briefly cutting in, please clean the impeller following the procedure below.

Follow routine maintenance.

1. Remove impeller base plate locating screws.  
Carefully remove the impeller base plate and impeller assembly.
2. Wash all the moving parts and the pump body carefully under fresh water. \*Do not mislay the shaft locator, as this is needed to position the shaft accurately, preventing damage.
3. Replace the impeller reversing the above steps.



## 7. MAINTENANCE & CLEANING

### Annual Maintenance

Following as for routine and impeller maintenance, once a year you should service your pump by using Blagdon Pond Pump Cleaner. This may need to be done more frequently in hard water areas or with harsh use.

Dismantle the pump and examine all parts for wear or damage, replacing any parts that show obvious wear and/or damage. (See "Getting to Know Your Pump" for parts/description and replacement codes).

Particular care should be taken to examine the cable entry point and the cable. If there are any signs of damage the pump should be discarded.

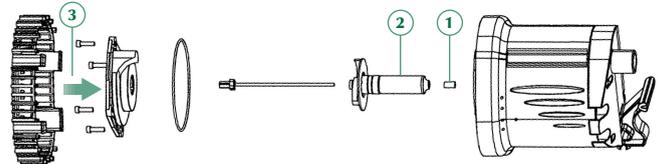
### Replacing the Impeller

If the impeller is worn or damaged it will be necessary to replace it.

Follow routine maintenance and cleaning the impeller steps.

1. Remove locator
2. Remove impeller assembly from the shaft.
3. Push out the green shaft locator from the impeller base plate.  
(It will be necessary to use a small electric screwdriver or bradawl).

Repeat the procedure to replace a new assembly making sure the shaft locator is firmly pushed into the impeller base plate.



### Winter Storage

The pump can be run in the pond during the winter but care should be taken to ensure that it is fully immersed and cannot freeze solid. If the pump is not used during the winter, follow annual maintenance procedure and store frost-free in the house or garage until spring.

## 8. TROUBLESHOOTING

### Problem

#### Low flow from pump

1. Ensure pipe work is not blocked, leaking or is laid so that it gets crushed or kinked.
2. Keep the height that water is to be pumped from the water surface (called Head) to a minimum. The higher the head the lower the flow rate and the more wear on the pump.
3. Use the largest diameter, smoothest bore pond hose over the shortest distance and keep hose fittings to a minimum. This removes frictional loss of flow and so increases pump flow rate.
4. Follow routine cleaning procedure.
5. Follow impeller cleaning.
6. Electronic models will stop, pause and clean their impeller automatically if blocked. This is not a fault. If the pump has not cleared the blockage after the cleaning cycle has completed the pump will turn itself off to standby mode. Turning the pump off and on at the switch will restart the cleaning cycle. If this does not work - follow points 4 and 5.

#### No flow from pump

1. Check power supply is on.
2. Check fuse and wiring (SEE ELECTRICAL INSTALLATION).
3. Follow low flow procedure as above.

If none of the above works contact Interpet (Blagdon) Consumer Advice Department (See Faults - Problems procedure opposite).

## IMPORTANT

### FAULTS - PROBLEMS PROCEDURE

Before returning your Hydratech Torrent pump to your dealer or contacting our Consumer Advice Department, please carry out the following steps. This will solve most problems quickly and easily.

1. Ensure electrical procedures have been followed fully. Check fuses and any cable connectors/switch boxes.

**NOTE:** If the pump has overheated the thermal overload will temporarily switch off the pump.

2. (a) Follow routine maintenance and check pump (b) Follow troubleshooting guide. (c) Follow annual maintenance guide.
3. Return pump to the point of purchase for inspection and advice (you will need proof of purchase).

### Consumer Advice contact details

**Interpet (Blagdon) Consumer Advice Department**  
Vincent Lane, Dorking, Surrey RH4 3YX

**Telephone:** 0845 226 7437

(Monday to Friday 10am to 4pm except Bank Holidays - Times may vary)

**Fax:** 01306 876712 **E-mail:** [customercare@interpet.co.uk](mailto:customercare@interpet.co.uk)

## GUARANTEE

This product is guaranteed against defects in material and workmanship for 3 years from the date of purchase, under normal usage. The guarantee DOES NOT APPLY in case of improper use, negligence, lack of maintenance or accidental damage to either the pump or to the impeller or impeller shaft. If the pump fails due to a manufacturing fault within this period it will be either repaired or replaced free of charge. Liability is limited to replacement of the faulty product only; no other costs will be reimbursed.

This guarantee is not transferable and does not affect your statutory rights. This guarantee does not confer any rights other than those expressly set out above. Excludes impeller, which may require replacing annually. If any parts need replacing, spares are available from your retailer.