

**Operation Manual for the**



**Magnetic centrifugal pump**

**Ocean Runner OR 1200**

**Ocean Runner OR 2500**

**Ocean Runner OR 3500**

**Ocean Runner OR 6500**



**Circulation pumps fresh and saltwater aquariums.**

With the purchase of this pump you have selected a top quality product. It has been specifically developed for aquaristic purposes and extensively tested by specialists.

## 1. Features

The magnetic centrifugal pumps of the **Ocean Runner** Series are watertight and safe against flooding. They work in a very quiet way. The synchronous motor is fully encased. All materials are sea water resistant.

The polished ceramic shaft and bearing is nearly wear-resistant so that a long life span is guaranteed. Furthermore, the integrated overheat protection avoids failures in case of a blocking of the impeller.

The whole pump can be disassembled for cleaning. Each electrical part is encapsulated.

The pump may be operated submerged or dry.

### CAUTION:

- A dry run destroys the pump in a very short time!
- Frost destroys the pump as well!

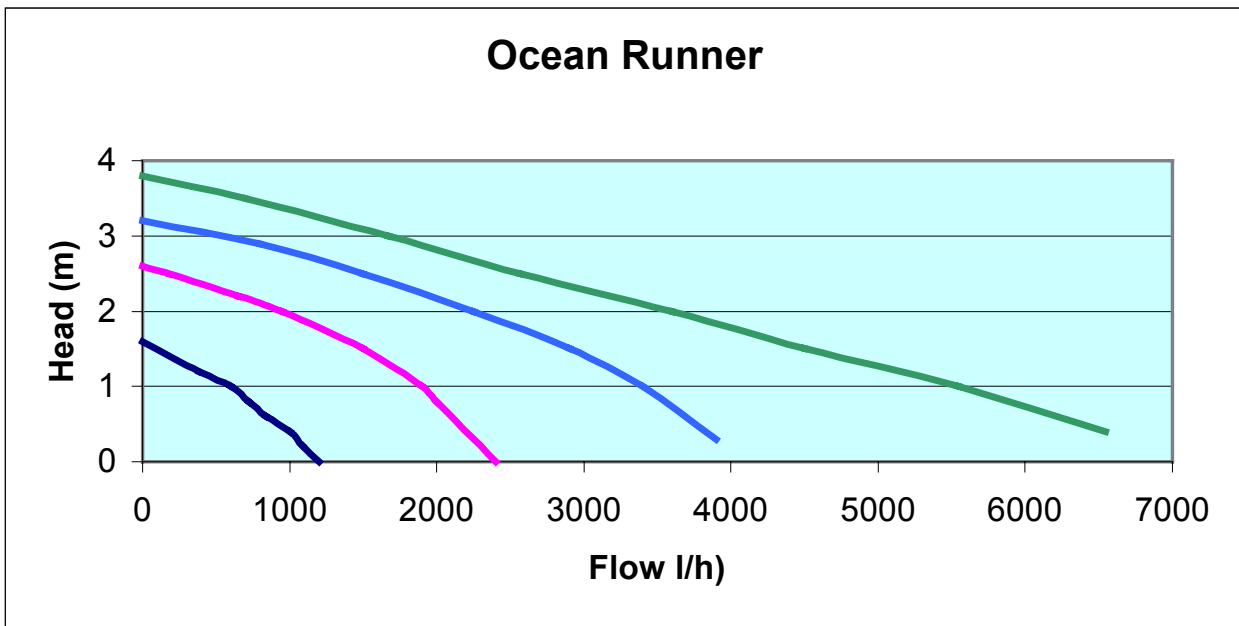
### IMPORTANT NOTE:

- Operate the pump only with the correct voltage (see type label)!



## 2. Tab 1: Technical Data

Typ:	Ocean Runner OR 1200	Ocean Runner OR 2500	Ocean Runner OR 3500	Ocean Runner OR 6500
Power requirements Power uptake	230V~/50Hz 25 watts	230V~/50Hz 38 watts	230V~/50Hz 65 watts	230V~/50Hz 95 watts at 180 cm
Max. l/hour (liter/minute) gallons per hour Pump height (max)	1200 ( 20) c. 300gph 1,6 m (c.5.3ft)	2.500 ( 40) c. 650 gph 2,6 m (c.8,6 ft)	3.500 ( 58) c.900 gph 3,2 m (c.10.5 ft)	6.500 ( 108) c.1700 gph 3,8 m (c.12.5 ft)
Connection pressure side (male thread) Connection suction side (male thread)	1/2"	3/4"	3/4" or: glue joint DN25 1"	1" 1 1/4"
Length of cable Protection,	3m (10 ft) IP68	3m (10 ft) IP68	3m (10 ft) IP68	3m (10 ft) IP68
max depth	1 m , c.3 ft	1 m , c. 3 ft	1 m , c. 3 ft	1 m , c. 3 ft
max medium temperature	35°C	35°C	35°C	35°C



OR 1200 – dark blue      OR- 2500 magenta  
 OR 3500 – blue            OR -6500 green

Fig 1: Capacity of the Ocean Runner pumps, measured with not reduced pressure side

### 3 .Connections

**suction side:** The suction side can be connected with a flexible hose, using the included hose fitting (13). As another option, the male thread of the pump housing (7) can be connected to a standard PVC fitting and pipe. The sizes of the connections are shown in Tab.1.

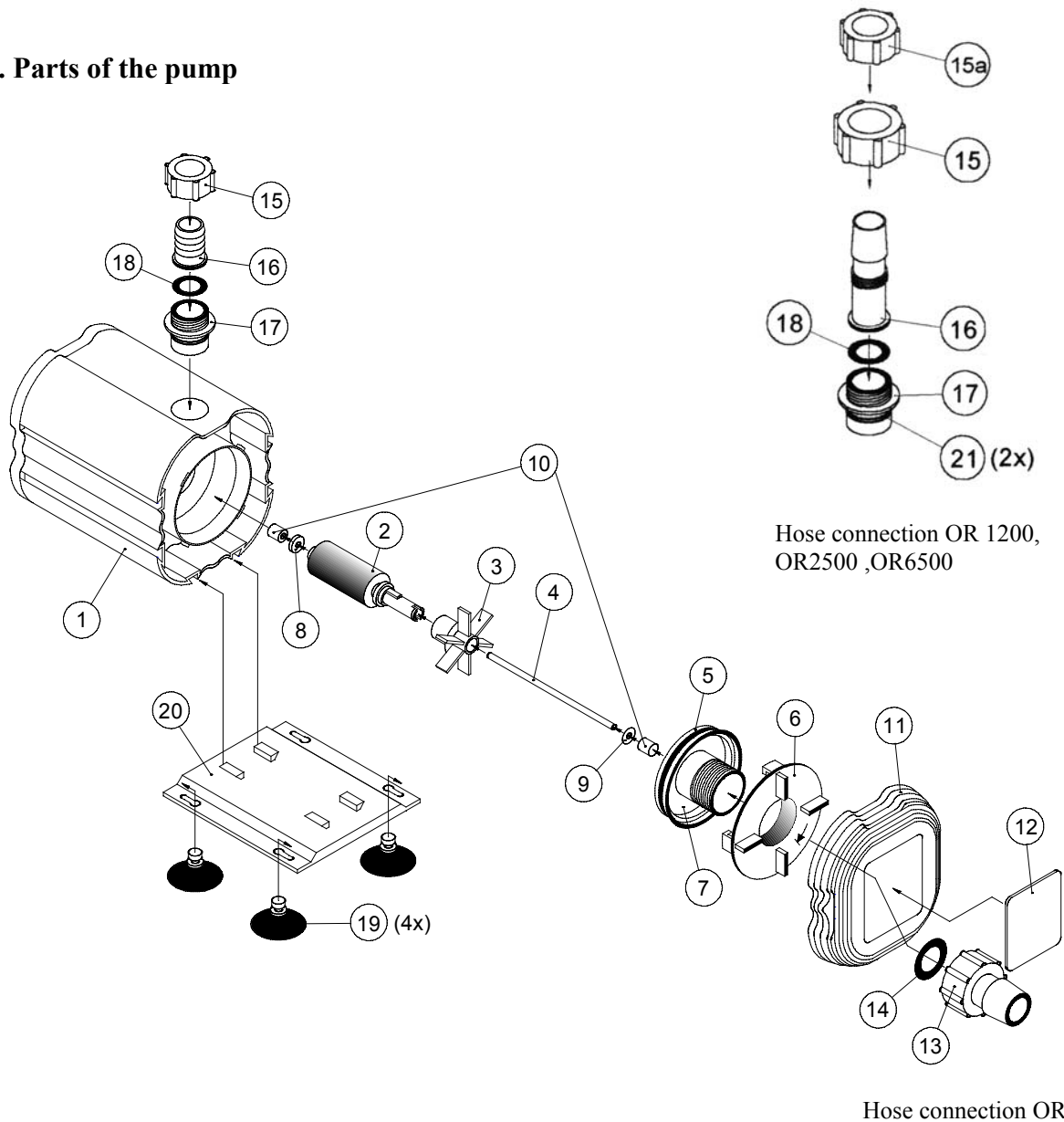
**Pressure side:** The pressure side can be connected with a flexible hose, using the included hose fitting ( 15/16). This hose fitting has also to be used, if the pump is used as a pure current pump.

If the pump is set up outside the water, the socket (17) has to be glued into the pump housing using PVC glue (e.g.“Tangit“) (only for OR 3500)

If the pump is used as return pump, it can be directly connected to a PVC pipe. At the OR 3500, this pipe can be directly glued into the pump using PVC glue. The socket is removed. If the pump is set up in this way, the pump head may not be less than 1 m. This way of plumbing gives the best results, see fig 1 (capacity). With all other pumps, a threaded connector has to be screwed on the pressure fitting of the pump. Diameters, see Tab.1.

If a hard pipe is used for connecting the pumps, we recommend to use a short part of flexible hose, to avoid vibrations.

#### 4. Parts of the pump



#### fig: Ocean Runner pumps

- |                            |   |
|----------------------------|---|
| 1. motor housing           | 11. filter basket                           |
| 2. rotor / magnet          | 12. lid of the filter basket                |
| 3. Impeller                | 13. hose connection, 1"                     |
| 4. Ceramic Shaft           | 14. washer, 1"                              |
| 5. O-ring                  | 15. Nut, 3/4"                               |
| 6. Bayonet-lock            | 16. hose connection, 3/4"                   |
| 7. lid of the pump housing | 17. Adapter nipple, 3/4", 25 mm for glueing |
| 8. Washer, big             | 18. Washer, 3/4"                            |
| 9. Washer, small           | 19. Rubber sucker, 4 pcs                    |
| 10. Rubber bearing         | 20. holding plate                           |

#### Hose connection for OR 1200, OR 2500 and OR 6500

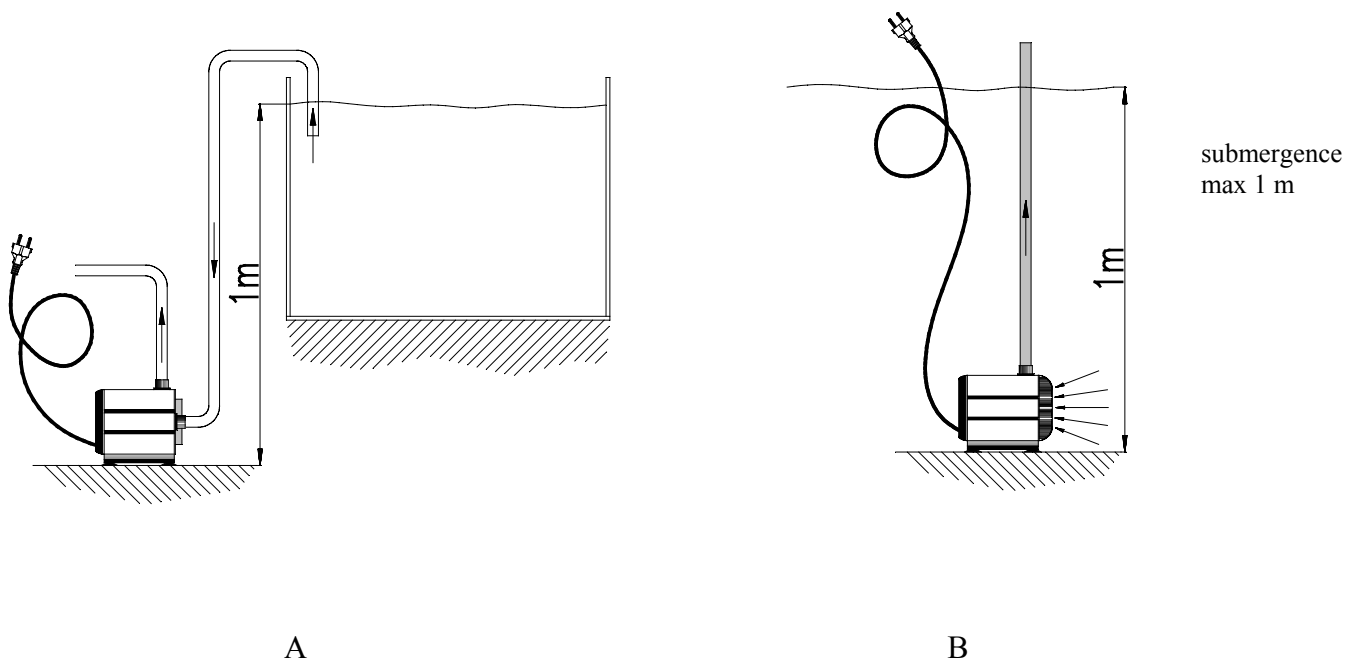
- |                              |
|------------------------------|
| 15. Nut                      |
| 15a. Nut for hose connection |
| 16. Hose connection          |
| 17. screw in adapter nipple  |
| 18. washer                   |
| 21. O rings ( 2 pcs)         |

## 5. Mounting:

The pump may be set up submerged or dry. It is however not self priming and, if set up dry, it has to be placed below the water level. If used submerged, we recommend to remove the hose connection (13) at the suction side and to mount the filter basket (11). In any case, dry running of the pump has to be avoided.

The bottom plate (20) with the rubber suckers (19) can be connected with the pump from 3 sides, so the outlet can be adjusted.

After set up of the pump, make sure, you can always reach the power plug.



Example for dry ( A ) and submerged (B) set up

### Security advise:

**The pump is constructed for indoor use only. Before working at the aquarium, the power plug has to be removed.**

**The connection cable and the power plug may not be changed. If the power cable is damaged, the pump may not be used any more.**

**If the pump is used submerged, the filter (11,12) and or the hose connection have to be used.**



## 6. Maintenance/Cleaning

Depending on the water quality, the pump has to be cleaned from time to time. Pull out the power plug before you start any work at the pump.

The pump is maintenance-free and -under normal conditions- reliable for years. However, we recommend to clean the filter housing (1 + 5) and all rotating parts regularly.

In case of failure, check the power connection and fuse.

If no defect is identified, the pump may be blocked and must be cleaned:

Remove the connections and open the bayonet (6) at the pump housing. Now the suction connection (7) can be removed. Attention: This part fits rather tightly (O-ring) and has to be removed carefully not to break the shaft (4).


Now, the complete magnet(2) and impeller (3) can be removed, cleaned under running water and reassembled in the opposite order.

## 7. Failures

The pump is constructed for long term maintenance-free operation. In case, the pump is creating noise, the pump head (1+5) has to be cleaned. If the magnet or the impeller is damaged, both can be hanged. The impeller (3) may be removed from the magnet.

## 8. Warranty

On the **Ocean Runner** pumps we guarantee 12 months on material defects. Excluded are wearing parts. Proof of purchase is the original invoice.

 **AQUA MEDIC** warrants only material and workmanship defects. The warranty will not apply to complaints which are due to improper installation or misappliance, poor cleaning, frost, calcium deposition or improper repairing.

In our production we use only quality materials. Nevertheless, in case of a justified complaint, we provide a repair or a replacement of defective parts free of charge. We reserve the right to charge the assembly costs. Generally, all warranty claims have to be treated either through us or an approved service center.

If you make use of the warranty, send the defective unit or part inclusive the proof of purchase and a complaint report prepaid in.

We are not liable for consequential damages caused by failures of the pump.

Complaints due to transport damages can only be handled if the damage has been monitored and confirmed by the carrier at the time of delivery.