



Operation Manual for the

Mistral 200

Mistral 300

membrane air pump

aquarium membrane air pump with a maximum capacity of 380 l/h(95 gph) (Mistral 300) or 300 l (80 gph), (Mistral 200)

In purchasing this unit you have selected a top quality product. It has been specifically designed for aquarium use and has been tested by experts. This unit will efficiently meet the air supply requirements of most types of aquarium.

1. Features

The **Mistral** membrane air pumps are designed for universal use. At the Mistral 300, the air delivery capacity can be adjusted over a wide range so it meets the exact requirements of the equipment being supplied. This is undertaken with a slide control, which adjusts the magnetic circuit and not the air pressure. The Mistral 200 has a fix output. The housing is made from cast aluminium and this, combined with the magnetic control system and the vibration reducing rubber feet, results in exceptionally quiet operation.

IMPORTANT NOTE:

The pump must only be operated at the correct voltage (see type label)

2. Technical Data

	Mistral 300	Mistral 200
Power requirements	230 volts 50 Hz	230 volts, 50 Hz
Power uptake	8 watts	4 watts
Maximum capacity	380 litre/hour (95 gph)	300 litres/hour (80 gph)
Capacity at 1 m (3ft) depth (100 mbar, 1.45 psi)	300 litres/hour (75 gph)	200 litres/hour (50 gph)
Maximum pressure	470 mbar, 6.8 psi	250 mbar (3,.6 psi)
Connection pressure side	air tube 4/6 mm (1/4")	air tube 4/6 mm (1/4 ")
Cable length	3m	3m
Weight	1.75 kg (c.3.7lbs)	1,36 kg (c. 3.1lbs)
Housing	cast aluminium	cast aluminium

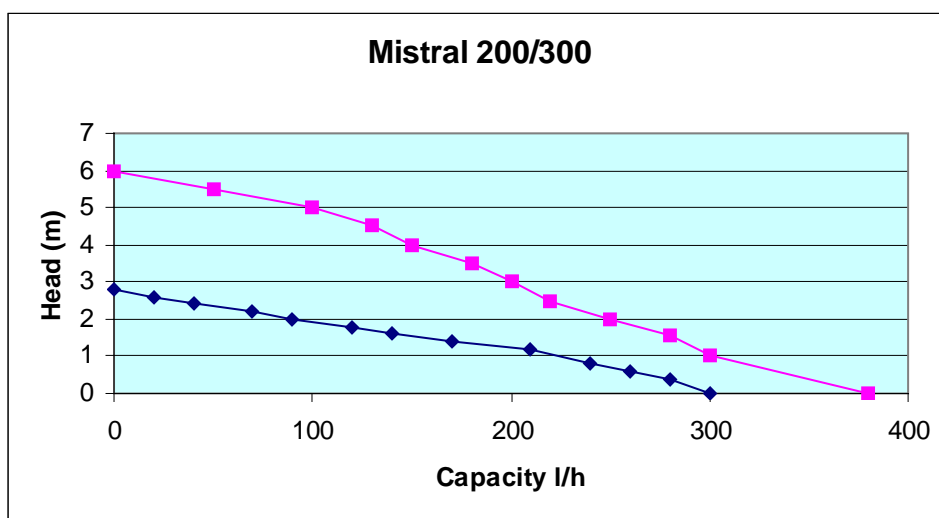


Fig 1: Capacity of the Mistral 300

3. Connections

The pump is connected to the equipment it supplies with aquarium air line (1/4", 4/6 mm). If ozone is to be used, ozone resistant tubing (e.g. silicone) must be used after the ozoniser.

4. Installation

The pump should be positioned in a dry place. Care should be taken to ensure that water cannot enter the pump when, for instance, it is switched off for aquarium maintenance or during a power failure. There are two methods of installation:

- above the water level – see fig. A below
- below the water level. In this case a reliable non-return valve must be fitted in the air line.
– see fig. B below

Ensure that the power plug can be easily reached at all times.

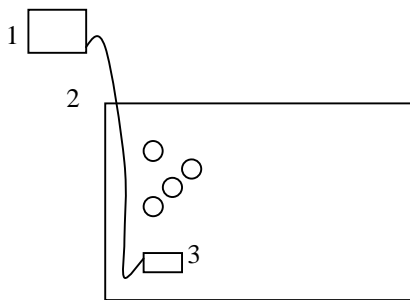


fig. A

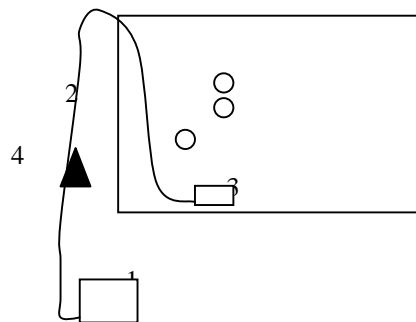



fig. B


1 Mistral 300 2 Aquarium 3 Air stone 4 Non return valve

Security advise:


The pump is constructed for indoor use only. Before working at the pump, the power plus 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.

5. Maintenance/Cleaning

The pump is constructed for long-term low maintenance operation. The only item requiring regular attention is the air filter. The air filter is positioned at the top of the pump. This cotton filter has to be changed at regular intervals dependant on the quality of the ambient air. To change the filter, undo the securing screw, remove the plastic cap, remove the contaminated filter pad, fit a genuine  **AQUA MEDIC** replacement and replace the cap, finally replacing the securing screw.

In case of a decrease in air capacity that is not remedied by replacing the air filter it will be necessary to replace the membrane and the steel spring inside the pump. These spares are available from your approved  **AQUA MEDIC** GmbH retailer.

6. Warranty

This product is warranted for 12 months from the date of purchase for material and production faults by  **AQUA MEDIC** GmbH.

All warranty claims should be referred to our national distributor, an approved service centre or ourselves. Return the defective unit or part, prepaid, and include a brief description of the fault and your proof of purchase.

Our obligation under this warranty is limited to the free of charge repair or replacement of the unit excluding freight costs.

This warranty does not apply to wearing parts, improper installation, use or maintenance or damage caused by frost, calcium deposition or incorrect repairs.

We are not liable for consequential losses caused by failure of the pump.

- We reserve the right to make technical changes to this product –