MINDER
WATER INDUSTRIES

Model:AC080 AC100 AC125 AC150

Oxygen Cone

Installation Instruction

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◆Suggestions

1. If the cone is long time out of service, please let oxygen cone empty.
2. The working pressure and temperature can not be exceeded our requests,any questions, just contact us directly or contact our local dealers.
3. In order to reach the best effect, the aerator is advised for the using.

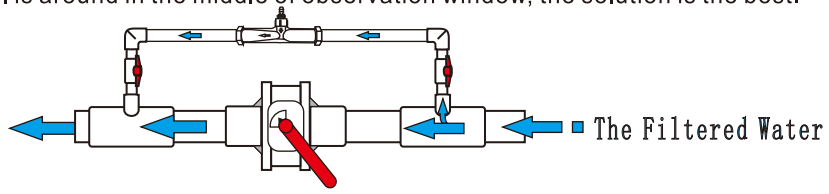
◆Warranty

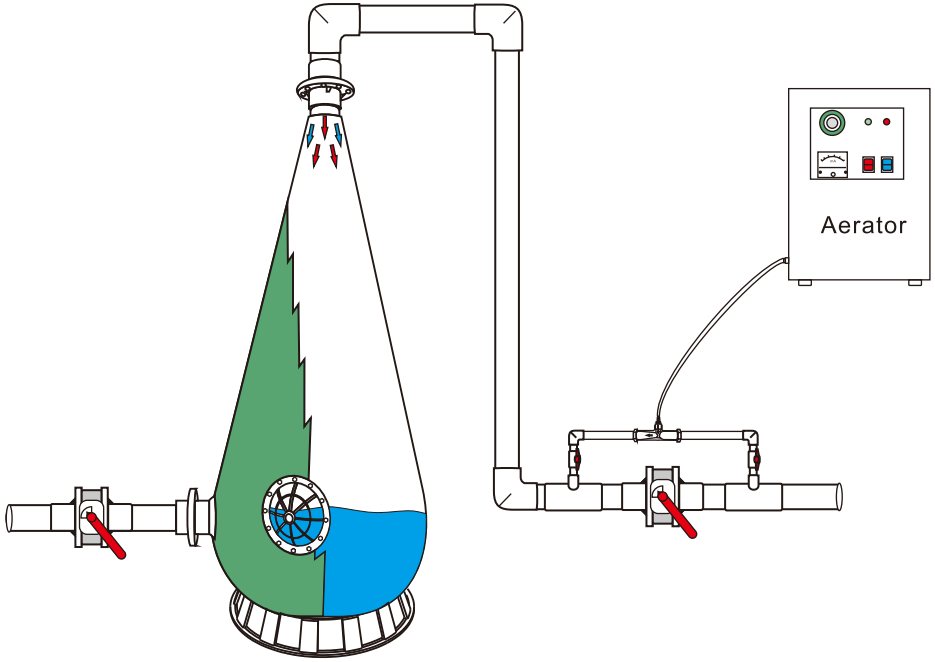
The cone is produced in high quality shape, all the cones have been tested here in our factory. If you don't follow up our instruction during the installation, and due to any damages for the cones are out off warranty. The normal warranty time is 1 year. Any quality problem in the warranty time, we promise we'll give answers in 24 hours.

◆Operation

Open the pump, the water will flow through the water in flange to the cone, through the jet device, the water flow will have strong suction, at this time, the air or pure oxygen(when the aerator is opening) will be sucked into the cone, so that to mix with the inside water.

The water level and pressure are be adjusted by the water in and out valve, so that to make sure the mixed oxygen are dissolved in the water. Normally the water level is around in the middle of observation window, the solution is the best.





◆Description

This instruction supplies the installation, using and maintenance for the oxygen cone. All the information must be strictly followed.

Before you use the product, please check the model you have bought,here're the datas:

Model	Working Pressure(psi)	Temp 20 Oxygen Capacity kg/hr	D.O (mg/L)
AC080	10 15 20	1.2 1.4 1.6	49 56 64
AC100	10 15 20	2.4 2.8 3.3	50 57 65
AC125	10 15 20	4.5 5.3 6.1	50 58 65
AC150	10 15 20	5.6 6.6 7.7	50 58 65

◆Product instruction

● Working principle

The oxygen cone is designed for aquaculture, especially for factory aquaculture. The cone itself doesn't have any functions to supply the oxygen, it's only a cone for the mixingof oxygen and water. Due to the special structure and the water pressure, the oxygen can be fullydissolved in the water.

During the using, except the oxygen cone itself, other elements will also effect the cone, suchas: the aerator, pump, pipe, the design for the pressure and so on.

Each pond has its rule, the effect for the cone must be strictly followed the local rule during the installation, such as: whether the aerator is needed, what's the size for the aerator, the date forthe pressure and so on.

● Product feature

The body for the oxygen cone is produced in fiberglass and resin, outside body is gel coat finished. All the pipes are PVC material. The normal working pressure is 2.5 Bar, the factory test pressure is 4 Bar, the highest working temperature is 43℃.

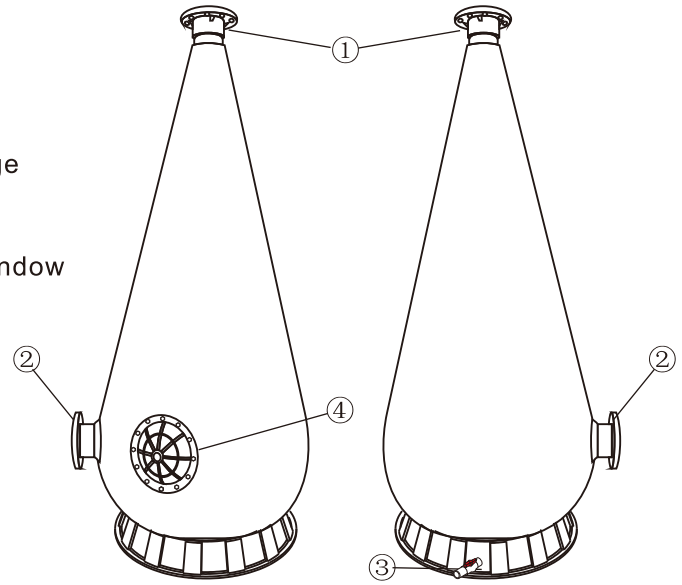
Structure

①Water in flange

②Water out flange

③Main drain

④observation window



◆ Installation

● The request for the site

The level for the oxygen cone must in the same or higher level than the water level in the fish pond. The oxygen must be put in flat, and can not be leaned. The enough space must be left for the maintenance and other work. What's more, the water drain function must be requested in the machine room, if there's any accident, so that the water can be flowed out from the room, and just avoid the dangerous of electricity leak.

AC080/AC100/AC125/AC150

● The installation for the water and air pipes

As the following diagram showing, the valve must be installedin the water in pipe, so that to control the water in flow, and waterlevel and pressure in the cone.

The jet device(must buy separately) is needed in the pipe system, when the water will flow through the water in flange to the cone, through the jet device, the water flow will have strong suction, at this time,the air or pure oxygen(when the aerator is opening) will be sucked into the cone, so that to mix with the inside water.The jet device has flow checking function, so that to prevent the water will be flowed back through the jet device.