

Instruction Manual

OSCI -MOTION

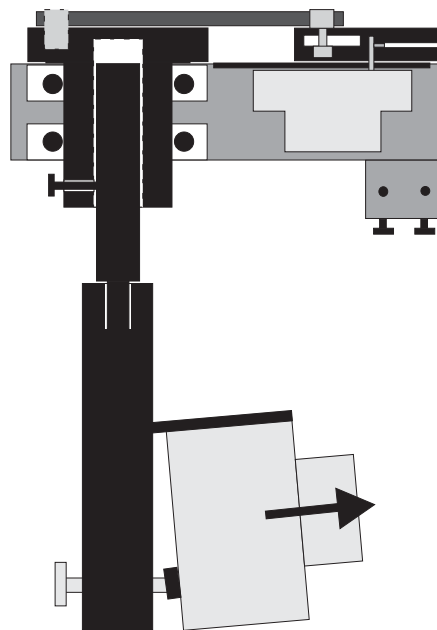
**Please read this instruction manual carefully
before operating to avoid damage.**

Preface

First we want to thank you for buying a quality product from
AMA / Ecosystem.

We have developed OSCI~MOTION for professional usage
in aquariums. The components comply to industry standards
and promise high durability. The plastic parts were milled on
CNC-machines to ensure stability.

With OSCI~MOTION you're getting a high quality product
"Made in Germany "



We want to wish you a good start with the following instructions

1. Transformer

Important

OSCI~MOTION may only be used with a 24 Volt safety transformer

2. Speed Change

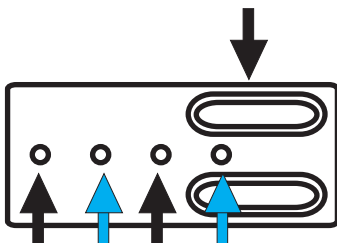
The speed can not be changed with the operating voltage. If you want to change the speed , you will need to exchange the transmission. (See "Accessories")

3. Assembly

The mounting can be assembled vertically or horizontally



The mounting can be adjusted steplessly by the oblong hole.



The position of the OSCI~MOTION can be changed by 15mm to ensure the best operating position.

4 Settings

Position the eccentric screw (8) without the push bar/rod (10) pointing forward by switching on the motor. (See Fig 1 or 2)

By unfastening the screw you can adjust the eccentric.
In the beginning don't adjust a too large turn. Try to find out your desired move in small steps.

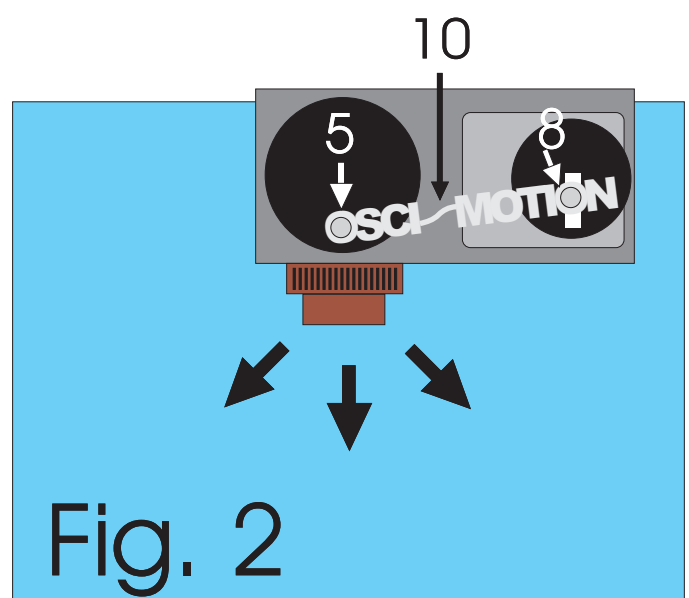
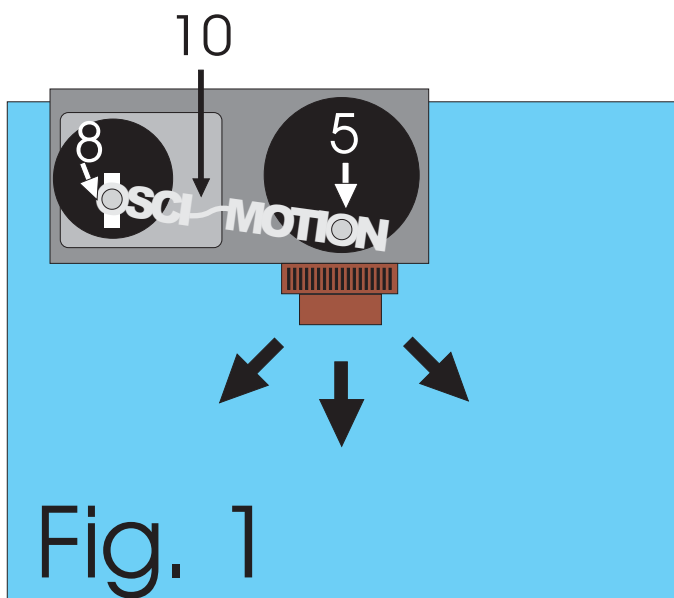
The further you unfasten the screw the bigger the turn.

OSCI-MOTION and the pump may not be blocked by obstacles to avoid damage !

Position the screw of the trick-shaft and place the pump in a foreward direction. Now the screw (7) is in front and can easily be adjusted.

Be prepared to switch the power off if the movement of OSCI~MOTION is blocked. Be sure to switch the power off when you change position or turn.

Inclination may be changed with an adjustment screw.



5 Dual Mode

If you're using a second OSCI~MOTION you'll have a synergistic effect. This means that two OSCI~MOTIONS increase the effect by factor four.

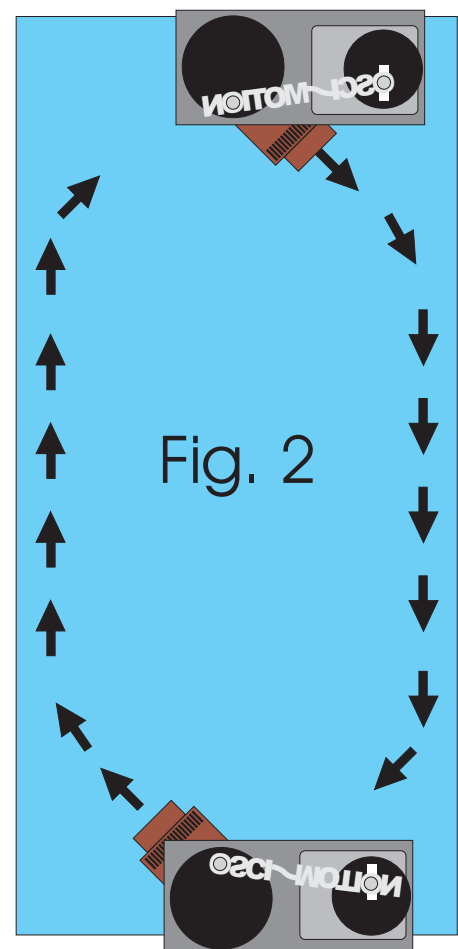
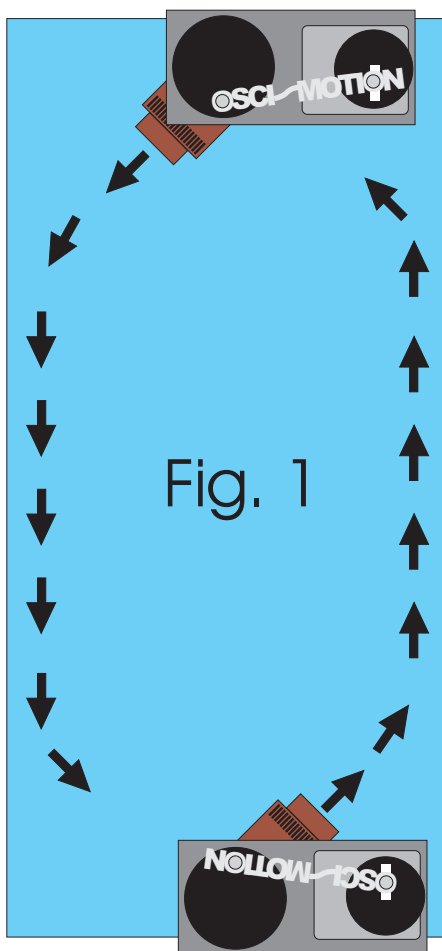
When you do this the turning movements are never absolutely synchronized (see Fig. 1 and 2). This results that the backflow is also accelerated and this will reduce sedimentation.

Where the flow of both OSCI~MOTION will hit each other there will be a down swirl.

The points where both flows will hit each other change all the time, so there are no unwanted dead points.

The swirl are not only produced in the middle of your aquarium, but also in the outer areas.

This effect can be increased by using a 1:5000 transmission (see accessories)



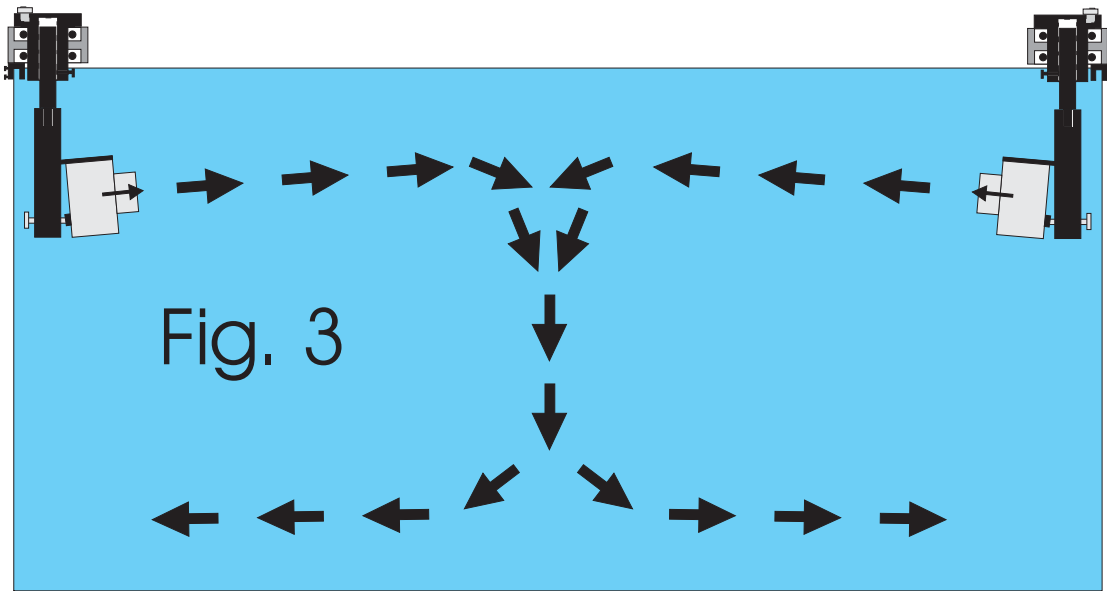
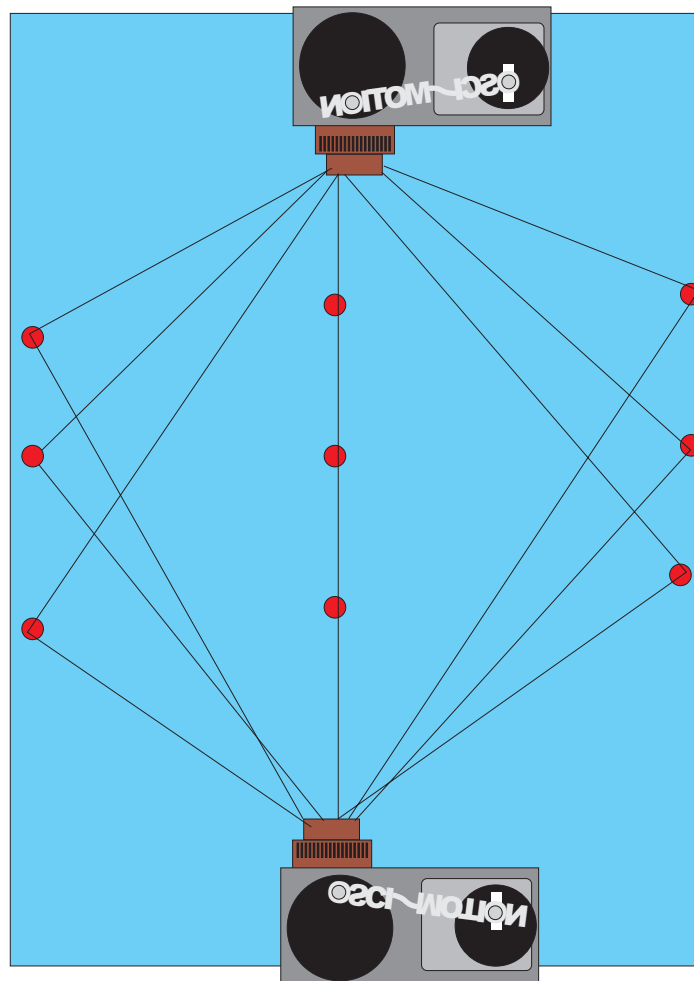


Fig. 4 shows some possible points where swirls will be produced, depending on the timing where and when the flows will hit each other

Fig. 2



6 Maintenance

Through its robust construction OSCI-MOTION is designed for low maintenance operation. Nevertheless the glass ball bearings should be checked if it's turning easily. If you're doing this take off the push bar and turn the drive shaft manually. If the bearing has to be cleaned, take it out and wash it with fresh water.

7 Accessories

Transmission

1:250

1:500 (Standard)

1:5000

1:30000

Extension for drive shaft

