

ELECTRIC CHILLER

AquaChill 200

Instructions / **Warranty**

Features:

- Thermo-electric Chiller
- 2. For Fresh- and Marine water aguariums
- 3. Micro-processor conducted
- 4. Silent Easy to install
- 5. Temperature reach 15°C 30°C
- 6. Reduces water temperature 3°C 4°C in a 200L. aquarium



Safety precautions

Aquatic

Read the instructions carefully before use.

- 1. Do not disassemble nor modify the AquaChill 200 in order to avoid electrical shock or fire hazard. If opened warranty expires.
- 2. Do not use other electric wires or plugs than the ones supplied with the AquaChill 200.
- 3. To prevent electric shock, do NOT touch the power source with wet or sweaty hands, or when the power source itself is wet.
- 4. A pump with a water debit of 1000 to 2000 liters per hour is recommended.

Parts List

AquaChill 200

- 1. Water inlet
- 2. Water outlet
- 3. Function display indicator (LED)
- 4. Temperature indicator
- 5. Temperature adjuster (higher)
- 6. Temperature adjuster (lower)
- 7. Ventilation inlet
- 8. Ventilation outlet
- 9. 24V electric connecting wire set

Power source

- 10. Radiator fan
- 11. Power source switch
- 12. Socket
- 13. Power source 115V/230V selector switch
- 14. Radiator grid
- 15. 24V socket



Cautions

Please read carefully before installing the AquaChill 200

The Aquachill 200 must be placed in an area with good ventilation. Avoid exposing it to direct sunlight. *(fig. 16)* DO NOT to put it in a small, confined place, in order to prevent a decrease in efficiency.

The Aquachill 200 is operated by a power source. Careful !!! Always put the position on 230V when the power source of your home is 220/230V (fig. 28). In case of a wrong setting (for example; using 115V position on 220/230V, the power source will be severely damaged (short circuit). No warranty applies in this case.

The Aquachill 200 produces heat while cooling, so make sure the air inlet and outlet of the Aquachill 200 is not blocked. Assure a good air flow, as it increases the efficiency of the Aquachill 200. *(fig. 17)*

Put the Aquachill 200 on a flat and stable surface. (fig. 18)

The recommended content of the tank is approx. 200 liters. Indoor use only. *(fig. 19)*

Avoid the power source and the AquaChill 200 body getting wet (fig. 20).

Make sure the connections of the power cord and d.c. 24V are set correctly. This avoids electrical damage *(fig. 21)*.

Aquatic Nature

Installation

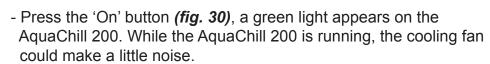
- Turn the screw(s) of the water inlet and outlet to the lowest position. (see direction fig. 22)
- Put the tubes over the water inlet and outlet (fig. 23)
- Push the tube until it reaches the lowest part of the outlet / inlet connection. (fig. 24)
- Tighten the screw(s) by hand (see direction on fig. 25)

Careful !!! Always put the position on 230V when the power source of your home is 220/230V. In case of a wrong setting (for example; using 115V position on 220/230V, the power source will be severely damaged (short circuit).





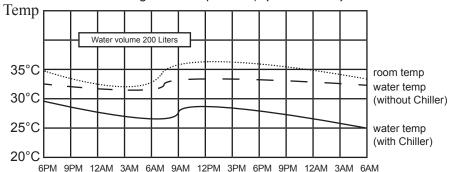
- Plug the connecting wire of the AquaChill 200 into the Power source (6-Pin connection) (fig. 26a & 26b)
- Put the plug in the socket of power source before determining the voltage. Do not connect the power cord. (fig. 27)
- After completion of the basic installation, let the water circulate 5 ~ 10 minutes. Make sure there are no air bubbles left in the water pipe. *The AquaChill 200 is now ready for use.* You can now connect the power. *(fig. 29a)* Make sure the power cable is in a loop. *(fig. 29b)*



Setup

- On top of the AquaChill 200 you'll find a display (fig. 31) This display has 2 buttons, one with the arrow pointing upwards (red field), and one with the arrow pointing downwards (blue field)
- The arrow in the red field is for choosing a higher temperature setting (for example, if your display reads 25°C, and you wish to set the temperature to 27°C, then use this arrow.)
- The arrow in the blue field is for choosing a lower temperature setting (for example, if your display reads 25°C, and you wish to set the temperature to 23°C, then use this arrow.)
- If the requested temperature is 25°C, yet the temperature of the aquarium is higher (for example 27°C), then the orange LED light goes on and the cooling starts. In the opposite case, if the requested temperature is higher than the water temperature, then the LED light goes off and the cooling stops.

Cooling effect: for a 200 liter aquarium, at room temperature of 32°C ~ 38°C, it will take 12 hours to lower the water temperature with 5°C. (The chart is for reference only, actual cooling will depend on the surroundings of the aquarium). (see below)





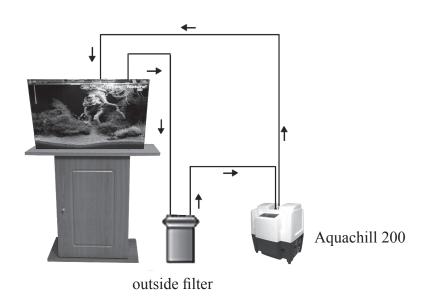
Maintenance

The AquaChill 200 has a very low maintenance, yet a few rules have to be applied:

- Do not clean the AquaChill 200 body with water, but wipe it with a dry cloth instead. (fig. 32) Do not disassemble the AquaChill 200, the warranty then expires.
- In case of insufficient air apport on the inlet or outlet of the ventilator due to dust, clean it with a brush or vacuum cleaner (fig. 33), thus prolonging the lifetime and efficiency of the AquaChill 200.
- Check the tubing of the water in- and outlet regurarly (once every 6 months). If they are dirty, replace them.
- When moving the AquaChill 200 or his Power source, ALWAYS unplug the power cable first. (fig. 34)

Actual Application Examples

1. User application with outside filter



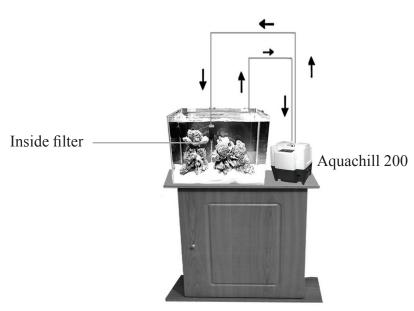
To avoid a decrease in efficiency, minimize the length of the watertube between the AquaChill 200 and the tank (apply a correct position). In other words, keep the distance from the outlet of the filter to the inlet of the AquaChill 200 as short as possible.

Caution:

- 1. Make sure the AquaChill 200 **never** operates without water. This could lead to irreparable damage.
- 2. Place the AquaChill 200 preferably at the same height, or higher than the pump (filter).

Actual Application Examples

2. User application with inside filter



To avoid a decrease in efficiency, minimize the length of the watertube between the AquaChill 200 and the tank (apply a correct position). In other words, keep the distance from the outlet of the filter to the inlet of the AquaChill 200 as short as possible.

Caution:

- 1. Make sure the AquaChill 200 **never** operates without water. This could lead to irreparable damage.
- 2. Place the AquaChill 200 preferably at the same height, or higher than the pump (filter).

Technical Specifications

Name	Aqua Chill	
Model	200	
Cooling method	Thermo-electric	
Voltage	220/230V - 50Hz	
Power	Stand-by : 5W Cooling : 360 W	
Temperature Range	15°C ~ 30°C	
Dimensions (mm)	Chiller: 290 x 320 x 220 Power source: 91 x 116 x 146	
Weight (Kg)	9	
Dimensions of Connecting pipe	Inside dia 12 mm Outside dia 16 mm	



Trouble Shooting

Item	Problem	Possible reason	Solution
1.	AquaChill 200 not working. No powerlight	1. No power	Make sure the AquaChill 200 is plugged in. On/Off switch should be in "ON" position Adaptor not connected.
2.	Water temperature cannot drop *	1. Air inlet is blocked	Clean the air inlet
Carmot Grop	carriot drop	2. Bad ventilation.	Make sure you have a good ventilation
		3. Water tube is too long,	Shorten the length of the water pipe.
		4. Aquarium light system too close to water level (too much heat)	Adjust the position between lighting and water surface
		5. Volume of the aquarium higher than 200 liters	Lower volume of aquarium
		6. Pumps are blocked	Clean tubes or replace them
		7. Distance between pump and AquaChill 200 is too big	Reduce distance between pump and AquaChill 200



Trouble Shooting

Item	Problem	Possible reason	Solution
		8. Insufficient water supply	Clean the filters
		9. Presence of air bubbles	Remove air bubbles
3.	Small amount of circulating water	Water tube or pump filter blocked	Clean the pump
4.	Temp indicator shows or OO and AquaChill stops	1. water temp is under 13°C or over 37°C	When the water temp is between 13°C and 37°C, the AquaChill will start again
		2. Sensor break down	Repair sensor

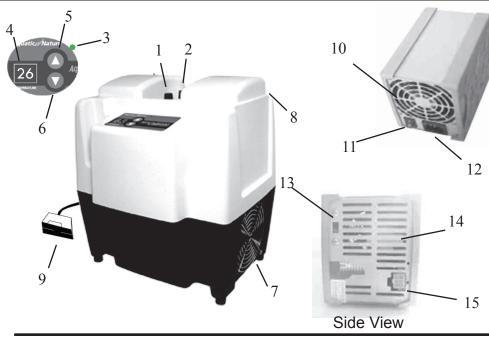


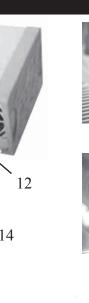
See the Difference...

Innovative products R & D Aquatic Nature

^{*} Caution: due to certain circumstances, the water supply could come to a halt (for example due to a blocked pump). In this situation the water that is still in the Chiller cools off, until it's frozen. If this happens, wait 30 minutes until you restart the Chiller. NEVER let the AquaChill run out of water.









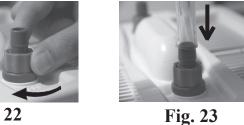




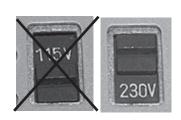




Fig. 25 Fig. 26a

Fig.26b















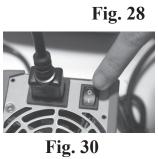




Fig. 17 Fig. 16

Fig. 18

Fig. 29b

Fig. 31













Fig. 19 Fig. 20

Fig. 21

Fig. 32

Fig. 34