

Zeolite Reactor ZA 509, ZA 512, ZA 616



Bedienungsanleitung und Ersatzteilliste

Operating instruction and Spare parts list

Manuel d'utilisation et Pièces détachées

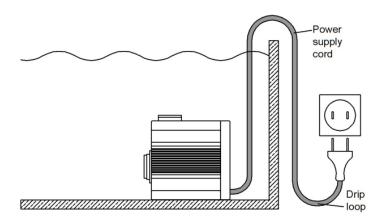
IMPORTNT SAFETY INSTRUCTIONS

WARNING To quard against injury, basic safety precautions should be observed, including the following.

- 1) READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- 2) DANGER To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service or discard the appliance.
 - a) If the appliance falls into the water **DON´T** reach for it! First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately. (Non-immersible equipment only)
 - b) If the appliance shows any sign of abnormal water leakage, immediately unplug it from the power source. (Immersible equipment only)
 - c) Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not interned to be wet.
 - d) Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or has been dropped or damaged in any manner.
 - e) To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of a wall-mounted receptacle to prevent water from dripping onto the receptacle or plug.

A "drip-loop", shown in the figure below, should be arranged by the user for each cord connecting an aquarium appliance to a receptacle. The "drip-loop" is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water travelling along the cord and coming in contact with the receptacle.

If the plug or socket does get wet, **DON´T** unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in the receptacle.



- 3) Close supervision is necessary when any appliance is used by or near children.
- 4) Always unplug an appliance from an outlet when not in use, before putting an or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
- 5) Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
- 6) Make sure an appliance mounted on a tank is securely installed before operating it.
- 7) Read and observe all the important notices on the appliance.
- 8) If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should bee taken to arrange the cord so that it will not be tripped over or pulled.
- 9) This appliance has a polarized plug (one blade is wider than the other). As safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.

Exception: This instruction may be omitted for an appliance that is not provided with a polarized attachment plug.

Removing of the plug invalidates the warranty!

SAVE THESE INSTRUCTIONS

Delleo Zeolite Reactor

Zeolite is a mineral with the ability to adsorb many unwanted substances from aquarium water such as nitrogen compounds and various metals.

The use of the unique Deltec ZA reactors is a very efficient method to achieve ultra-low nutrient conditions in you aquarium.

Delivery content

- Main body
- Lid with piping
- 24V DC controllable pump
- 1 supply of Deltec Adzolithe

Also required (not included):

- feedpump, please refer to technical data
- silicone hose
- Timer

The Zeolite in conventional Zeolite reactors needs to be manually agitated several times a day. The agitation in the Deltec reactor happens automatically through the DC pump, via a timer (the timer is not included). The frequency of the agitation can be selected and evenly spaced through a 24 hours period.

The reactor operates on the fluidization principle, using much finer grain Zeolite. This provides a much larger effective surface area resulting in more efficient adsorption. There is no channeling effect as is normal with conventional Zeolite reactors, self-cleaning, no buildup of sediments inside the reactor.

Installation

Before installing the Zeolite Reactor, please check for any damage. Deltec Zeolite Reactors are built as pressure vessels and can be installed inside or anywhere outside the filter sump or aquarium.

Starting up

- Wash the Zeolite thoroughly with tap water
- Open the lid of the reactor by turning it anti clockwise
- Remove the lid including the top strainer plate and sponge
- Plug the center feed tube with the cap located at the top of the lid to prevent Zeolite entering the feed pipe by accident
- Fill the reactor with the right amount of Zeolite
- Remove the cap from the center tube
- Refit the strainer plate, sponge and lid
- Submerge the feed pump in the sump or aquarium and secure the outlet hose in a safe position in the sump or aquarium
- Switch on the feed pump with the tap fully open. It must end below the water surface- Allow the pump to run for one or two minutes until most air has been bled out of the reactor and the clear pressure pipe of the DC pump on top of the lid is filled with water
- start the DC pump and select maximal flow
- wait until the air is fully bled out of the pipe system and no more air bubbles are visible

- If needed select a lower DC pump setting (see table). This may be necessary when using smaller amounts of Zeolite than recommended
- Plug the DC pump into a timer. Set the timer in such a way, that the DC pump operates a few minutes two or three times a day, space the timing evenly
- Set the feed pump tap to a flow of app. 200 l/hour for every Liter Zeolite (3,3-5,0 l/min)
- This can be checked by filling a 1 Liter container at a flow of 200 Liter in app 18 seconds.

Operation

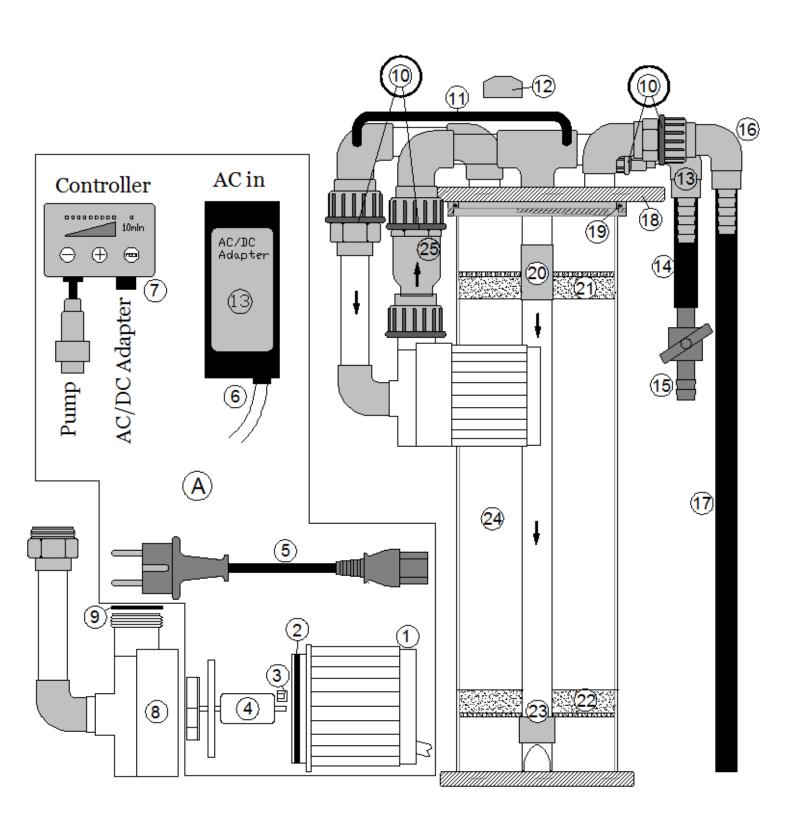
- Do not exceed the maximum recommended flow of 200 l/h per 1 Liter of Zeolite (app 0,98 kilos)
- Use 1 Liter of Zeolite for 400 Liters of aquarium water
- Replace Zeolite every 4-6 weeks
- Do not overdose Zeolite since it is very effective to adsorb nutrient loads and certain metals

Please note

If used excessively it may lead to damage on stone corals!

Туре	Aquarium volume Litre	Max Zeolite contents ml	Flow rate through reactor L/h	Recommended controller setting	Recommended capacity of the feed pump L/h
ZA 509	500	1250	250	6-7	500
ZA 512	1000	2500	500	5	1000
ZA 616	1800	4500	900	7-8	2000

ZA 509 / ZA 512 / ZA 616



Ersatzteilliste / Spare parts list Liste des pièces détachées

	Art.	Art.	Art.			
	Nr.	Nr.	Nr.	Bezeichnung	Description	Désignation
		ZA 512		Dezerennang	bescription	Designation
				ZA 509 / ZA 512	ZA509/ ZA512/	ZA509/ ZA512/
	0	0	0	ZA 616	ZA616	ZA616
	6452000	6453000	6452000			
Α	0	0	0433000	Pumpe cpl.	Pump cpl.	
^	-	-		Schwamm Satz	Sponge set	
В	0	0	0	21+22	21+22	
		6453100				
1	0	0	0	Stator	Stator	
	-	6453500				
2	0	0	0	O-Ring Pumpe	O-Ring pump	
		6453600		Lager, ZA 509 2	H. I.	
3	0	0	Θ	Stück	Bearing	
	6452200	6453200	6453200			
4	Θ	Θ	Θ	Rotor	Impeller	
		6453700	6453700	Netzanschlusslei	Connection	
5	XXX	Θ	0	tung	cable	
	6452300	6453300	6453300			
6	0	0	0	Netzteil	Ballast	
	6452400	6453400	6453400			
7	0	0	0	Controller	Controller	
		6453800				
8	0	0	0	Pumpengehäuse	Pump housing	
				0-		
		6453900				
9	0	0	0	ng O Dia -	0-Ring	
1		9304140			0-Ring	
0	0	6175121	0	Verschraubung20	coupling20	
$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	0	0	0	Silikonschlauch	Silicone hose	
1		9314100		3 L KO SC Laucii	3111Cone nose	
2	0	0	0	Klebkappe	Сар	
1		6450130		ГКІСОКаррс	Cap	
3	0	0	0	Zuführung	Inlet	
1		6175308				
4	0	0	0	Silikonschlauch	Silicon hose	
1	9341900	9342000				
5	0	0	0	Absperrhahn	Shut-off-valve	
1	6450040					
6	0	0	0	Auslass	Outlet	
1	6175300	6175300	6175300			
7	0	0	0	Silikonschlauch	Silicone hose	
1	6450010	6450110				
8	0	0	0	Deckel	Lid	
1	8050009	8050012				
9	0	5	0	O-Ring Deckel	O-ring lid	
2		6430160				
0	0	0	0	Siebplatte	Strainer	
2		8601710			[
1	0	0	0	Schwamm fein	Sponge fine	

2	6542200	8601720	6580110			
2	0	Θ	Θ	Schwamm grob	Sponge roughly	
2	8715790	8600790	8600290	Innenrohr	Pipiing +	
3	0	0	0	+Siebplatte	strainer	
2	8716900	8600710	8600210			
4	0	0	0	Grundgerät	Body only	
2	6450020	6450120	6450120		Non return	
5	0	0	0	Rückschlagventil	valve	

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Steller Straße 75 D-27755 Delmenhorst

Deutschland / Germany www.deltec-aquaristic.com

