

Doser ONE Evolution 3CH

User's manual for aquarium dispenser.

Doser One Evolution



AQUA-TREND

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1. Introduction.

You have become the owner of Doser ONE Evolution dispenser, which is a very modern and technologically advanced equipment.

This dispenser has a number of functions and features that similar devices do not have, these features will make running a tank easier.

Evolution Doser ONE Dispenser offers the following features:

- Intuitive menu shown in English with clear LCD display.
- Four manipulation keys.
- 24-hour real-time clock.
- Seven-day calendar.
- Non-volatile memory for processor with battery backup.
- Seven individually programmable dosing channels (three pumps inside the controller + the possibility to connect an additional module with four pumps, or high-speed fast module with three pumps).
- Precise and individual calibration of each pump.
- Doses are determined separately for each hour of each day of the week.
- Manual pumps switching on/off.
- The cycle size of the dose: min 0.1 ml, max 200ml.
- Alarm of finishing fluid inside containers.

2. Connection.

The rear panel of the dispenser is equipped with two sockets labeled "Power 12V DC input," and "Channel 4-7".

The first socket should be connected to the power supply contained in the set (the device begins to work immediately), the second sockets is used for connecting additional external pump module (the socket supports pumps from 4 to 7).

3. Programming.

Four buttons located on the main panel of the device and LCD display are used for navigating through the menu functions.

Pressing the "MENU" button lets you enter the controller menu, and exit the menu, (-) and (+) keys are used for navigating through the function menu, "ENTER" button is used for confirming any changes.

After the driver is switched on, set the menu language, which we want to use. Enter the control menu after a single pressing of the "MENU" button, then you should select the "6 Language" using the arrow keys (-) (+), select the menu language from ENGLISH / ENGLISH and confirm by pressing OK.

The next step after turning on the device is setting current time and date.

Enter the controller menu after a single pressing of the "MENU" button. To set the time and date use (-) (+) to select "1st set DATE / TIME" and press the "ENTER" to confirm. Then the current hour, minute and day of the week, each change must be approved by pressing the "ENTER" button.

The next step is to calibrate the dispenser pumps.

Each of the pumps operated by the driver is individually calibrated. During the calibration controller with great precision counts down the time in which the pump dispenses 5ml of liquid, fixed time is saved and used later in the pump operation.

"2 CALIBRATION" is responsible for calibrating the pumps.

Please choose the pump, which you want to calibrate, then you should place the measuring graduated glass under the pump outlet hose.

Run the pump by pressing "ENTER" and at the time when the graduated glass is filled with exactly 5ml in volume once again press "Enter" stopping the pump and storing its settings. Other pumps should be calibrated in the same way.

Entering the schedule of pumps operation.

The device allows you to separately assign a dose within a range of 0.1 ml - 200ml for each pump, each hour and each day of the week.

"3.SCHUDULER" function is responsible for scheduling pumps operation.

Entering the work schedule should be started with choice of pump, then the day of the week in which the changes are to be made. The next step is to choose the time when you want to change the dose.

Setting of the dose of 0.1 ml - 5 ml is carried out in 0.1 ml steps. Doses greater than 5 ml are set with a resolution of 1 ml.

Entering the next changes is performed in a similar manner like the above.

The device also supports "scheduling".

If we assume that a dose will be repeated at the same time, there is no need to enter it separately for each day of the week. Simply select "weekly programming" for that pump and the introduced dose will be saved for every day of the week.

Manual pump switching (changing the state of pump).

Dispenser offers us three modes of operation for each pump. In "AUTO" mode pumps implement the settings made in the schedule of work. The "ALWAYS ON" mode turns on the pump permanently. The "ALWAYS OFF" mode will completely turn off the pump.

"4 MANUAL ON / OFF" is responsible for the mode of pump operation.

Select the pump number whose status you want to change, then choose from three available options and press "ENTER". The setting will be in effect until the next change of state.

Programming the alarm and use of liquids.

The dispenser controls the level of liquid in the container and using an acoustic signal and graphic communication informs the user when the fluid level in the reservoir will drop by about 90%.

The user has a choice of several tank capacities for each pump individually. The controller counts down the volume of each set dose from the entered volume of the container.

The control of the level of liquids in tanks is made by "5.REFIL CANICT" function.

Select the number of the pump for which modification will be made, then you should choose the storage capacity that is connected into the pump. For each pump different tank capacity can be selected, each of the tanks is monitored independently.

When the fluid in the tank is ending, the user is informed by an acoustic signal and graphic communication . This is done when the volume of the tank exceeds 90%. To turn off the alarm, re-enter the tank capacity, countdown begins again.

4. Service activities

a) Lubrication of a peristaltic pump head.

Servicing during dispenser used are limited to periodic lubrication of peristaltic pumps head. this activity has a significant impact on the loudness of the pumps operation and the lifecycle of santoprene hoses.

Lubrication should be carried out every two months with the supplied silicone grease and syringe. lubrication is done by pumping 1ml of lubricant into the interior of each head. To inject the lubricant into the head, pivot one of the ends of santoprene hose.

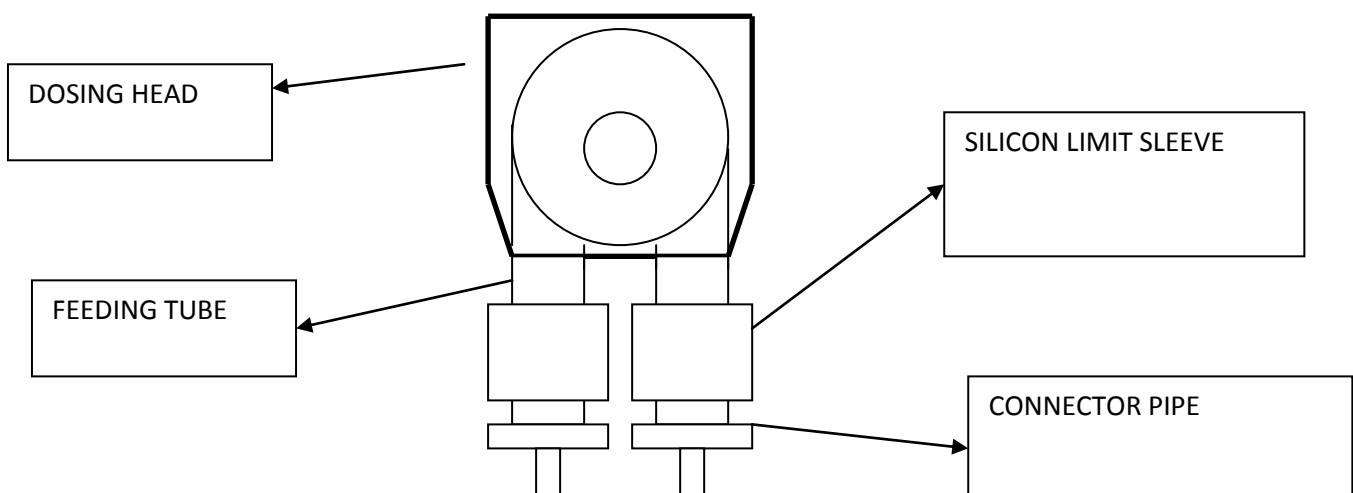
b) Replacing the feeding hoses in peristaltic pumps.

Santoprene tubings (bypasses) are the only operating element of the dispenser and are subject to periodic replacement. Replacement should be performed only if you notice that the pump does not suck fluid or pump efficiency drops significantly.

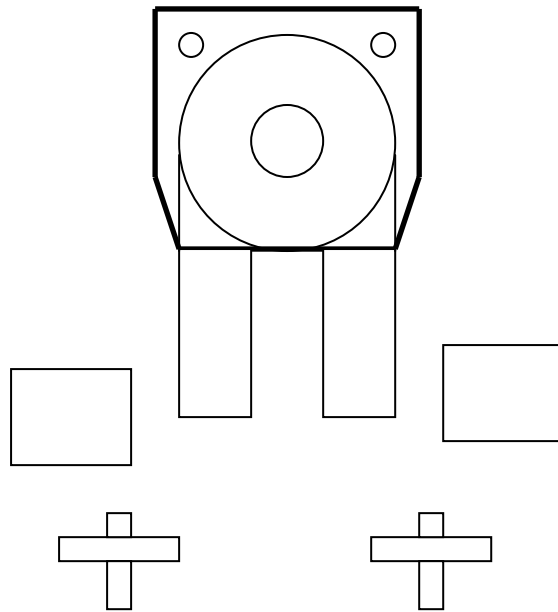
Replace the feeding tube by "pulling off " the old hose and "pulling on" the new one. To pull out the old hose, take off the connector pipe, and the silicone stops (on both ends of the hose) then gently pull the hose from the head.

Pulling on the new tube is done in the opposite way. First inject a small amount of silicone grease into the head and then press a new feeding tube through one of the holes.

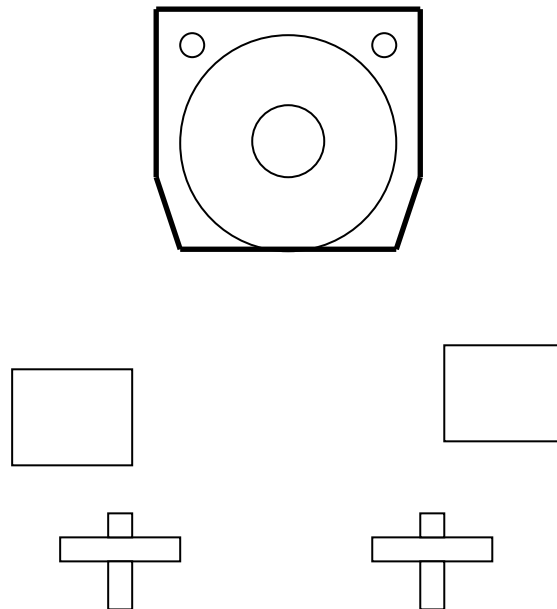
Place the stops and connector pipes on the ends of the pulled hose.



Head with removed stoppers and connector pipes.



Removed the head of the hose feeding.



Note! When you replace the hose, do not unscrew the head from the casing, tubing exchange is made "on the device."

5. Precautions.

Doser One Evolution dispenser like every electronic device cannot work in conditions of high humidity. The dispenser must therefore be put in a dry area outside the sump cabinet, or well-ventilated cabinet conditions must be provided.

To ensure maximum safety of your wards, be sure that the tanks from which the liquid is taken has such an amount of liquid that in case the aquarium gets full reserve of fluid, such a dose will not harm the aquarium inhabitants.

GUARANTEE CARD

1. The guarantee period is 24 months and is calculated from the date specified on the guarantee certificate.
2. Any complaints should be reported at the purchase place of the product or directly to the manufacturer; while reporting, the proof of the purchase, and description of the damage and guarantee card should be provided. After reading the documents and checking the state of the product, the seller will decide on further guarantee proceedings.
3. The guarantee card is valid only with the proof of the purchase (an original or a photocopy), when it has the date of sale, the name, the model and is confirmed with the stamp and signature of the seller.
4. The product under complaint may require a thorough expertise in order to determine the existence of the damage and the legitimacy of the complaint. The product under complaint should include all accessories supplied by the manufacturer.
5. The product under complaint should be delivered at the expense of the user.
6. The guarantee does not cover:
 - a. Consumables such as pumping and feeding hoses
 - b. Damages caused by the use of the device being not in accordance with the product instructions
 - c. Damages due to improper product installation or storage
 - d. Permanent contamination causing deterioration of the performance of the product
 - e. Damages due to unauthorized repairs or modifications of the product
 - f. Damages due to random events (e.g. fire, lightning, flooding)
 - g. Damages due to transport to the service
7. The service reserves the right to charge the customer with the costs of materials, labor and transport, if the damage is not covered by the guarantee or the product proves to be working.
8. The guarantee does not cover the right of the customer for the compensation for the loss of the expected benefits and costs incurred, resulting for the use or inability to use the product.

Breaking or damaging the guarantee seals voids the guarantee.

Product made in Poland.

Manufacturer: Aqua-Trend

Lokatorska 11 Lok. 6

93-021 Lodz

DATE OF SALE:

MODEL:

SIGNATURE:... ..