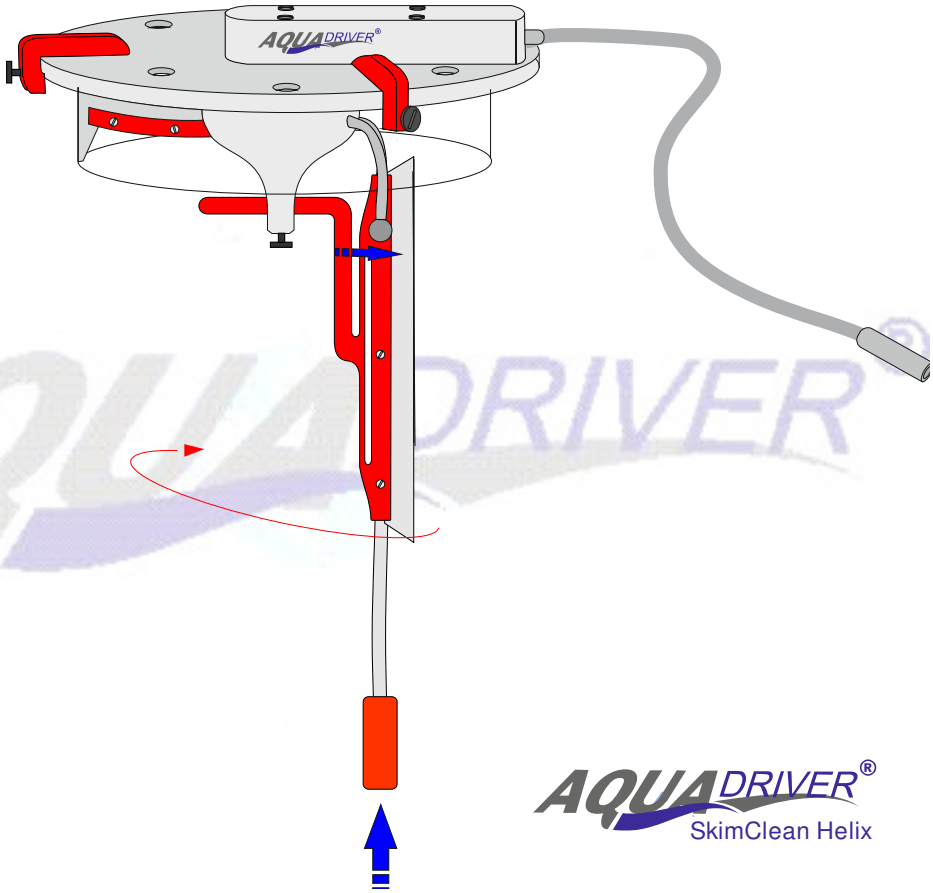
Manual

AquaDriver

SkimClean HELIX*



*Device for automatic, hydromechanical verticas & horizontal Cleaning in skim tubes from Proteinskimmers

Safety Advice

Please, read this manual carefully and keep it in a safe place.

- The power supply unit from the SkimClean supplied may only be used within buildings where a correct connection to sockets with 110 – 230 volts voltage is provided. The power supplied must be protected from humidity and sufficient air circulation is mandatory.
- The power supply unit may not be exposed to direct sun light or other sources of heat.
- Do not open the housing of the power supply unit. The unit is maintenance free.
- The socket power unit may only be used with the supplied connecting cable. Misuse may cause health problems or fire.
- The SkimClean should never be submerged. The top of the SkimClean should be kept dry so that the drive motor under the top cover doesn't get wet
- Beware of cables hanging or lying round – You may trip-.
- During all maintenance in and around the device (e.g. programming, cleaning etc.) it must be **disconnected from the power supply socket**! The device must be attached to a timer always. It will start running by itself according to the programmed time.
- The SkimClean may only be used running a 12VDC safety voltage (+ inside) included as part of the power supply.
- Never leave children unattended when using electrical devices. Please, handle device carefully when children are around.
- Never use damaged electrical devices or devices with damaged power components such as cables or power units etc.
- Do not touch any moving parts.
- During maintenance to not let long hair or loose garments near the device.

Should the device be handed over to a third person this manual must be turned over as well.

Technical Data:

Skim Tube Diameter	**80 – 200 mm**
Supply Voltage:	**12 V DC**

Thank you for buying our product and your confidence in our products. You have purchased an innovative device for automatic, hydro-mechanic internal cleaning of skim tubes/stand pipes for protein skimmers. The SkimClean HELIX have a new horizontal wiper to clean the lid area as well.

Assembly:

Lift the original lid of your skimmer. Should you have chosen a model ready to fit the diameter of your skim tube (e. g. 200 mm /250) the assembly will be quite easy. Center the Skim Clean lid on your protein skimmer. Adjust the thumb screws so that the skimmer lid is centered over the collection cup (pos. 2). These screws should only be tightened lightly. The wiper (pos. 6) must be adjusted to the inner diameter of your skimmers neck. Using the horizontal adjustment (pos. 6) set the wiping mechanism into the right position. The wiper lip must be mounted against the inside of the skim tube using little pressure so that the silicon wiper is slightly bent where it meets the neck.
Make sure that the wiper spray nozzle (pos. 4) is directed so that it cannot spray over the edge of the skimmer neck. The filter on the suction tube (pos. 9) must be located below the water / foam level. It must be able to rotate freely during the cleaning process, in a way that water for the cleaning nozzle may be sucked without interference.

After adjusting and assembling the SkimClean HELIX, place it back on top of the skimmer collection cup and start testing the function of the self-sucking rotation pump by using the plug power supply unit. After a few rotations the water should emerge from the rotating nozzle. Now turn on the skimmer and re-adjust the water level, air etc as needed based on the recommendations from the skimmer manufacturer.

The AquaDriver SkimClean HELIX is now ready to go!

Important Advice:

During the cleaning process or right after a large amount of skim could be developed due to the fact that a thin protein layer is being removed by the skim wiper. Test the effect of the device before the SkimClean HELIX is controlled by a timer making sure that the skimmer doesn't overflow.

During first days of operation we recommend using the SkimClean HELIX manually. In order to do so, simply plug power supply unit into the wall socket for a minute and observe the cleaning process. Once you are comfortable with the skimmers operation after the cleaning process, set the SkimClean Helix up using a timer or controller (not included in delivery package). The SkimClean Helix is very efficient and operates at a high RPM. As such we recommend a cleaning interval of once a day or every other day with an operation time of about 10-60 Seconds.

Warning:

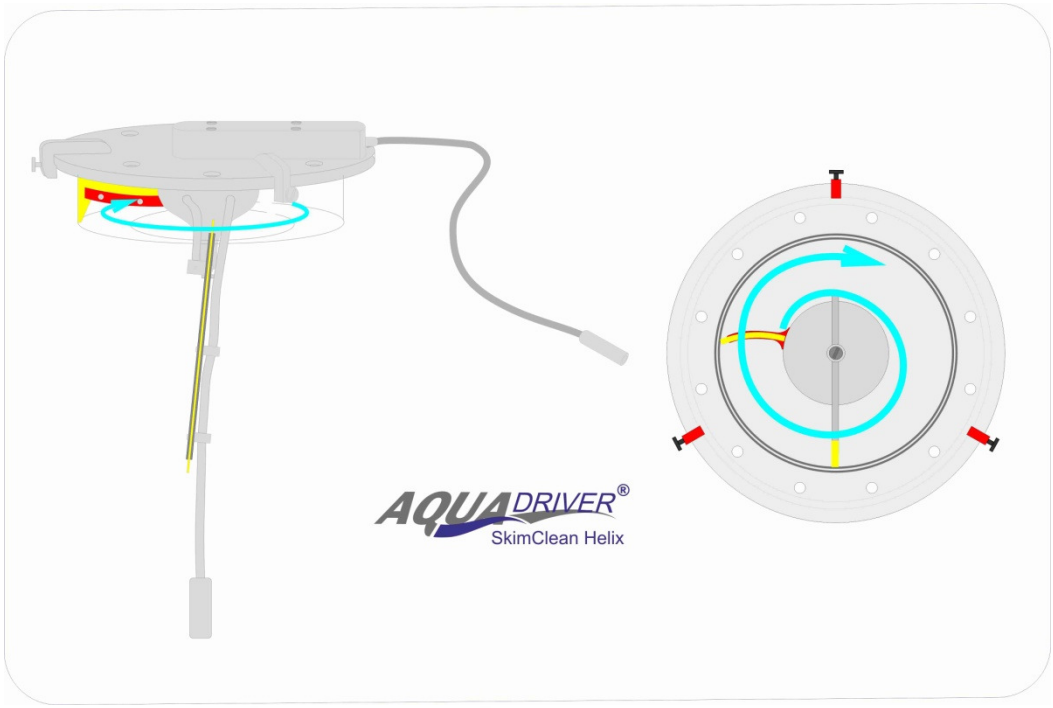
The device is not manufactured for constant operation but instead it is designed only for intermittant usage! Constant or unnecessary cleaning with the SkimClean HELIX reduces the lifetime of the device considerably and reduces the power of the protein skimmer! Only use the device with a timer or controller during normal operation! The water hose for the wiper sparyer connected to the integrated pump is a part subject to wear and would suffer from overly frequent usage.

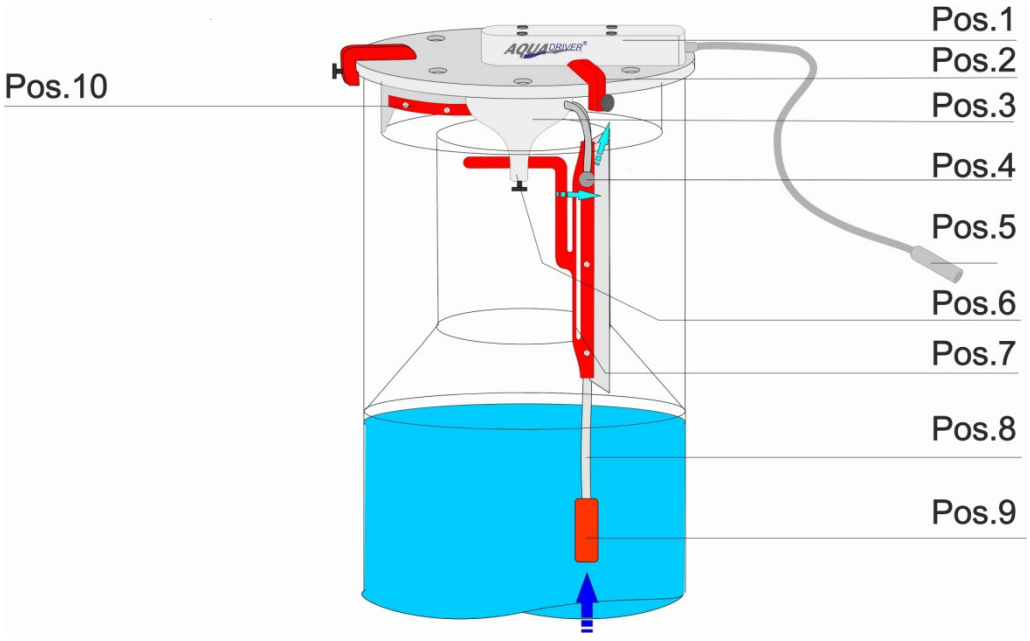
Maintenance:

The maintenance intervals of your skimmer will be extended and will assure consistent operation without a reduction in performance as a result of protein layers on the inside of the skim neck.

During maintenance and cleaning process of the skimmers collection, clean the SkimClean HELIX mechanism under running water using a soft silicon brush. Make sure that the drive unit on the top of the lid does not touch the water and be sure the 12VDC connection remains dry! The housing of the drive motor on top of the skimmer is not water tight and not designed to be submerged. Never dunk or submerge the device completely under water!

When necessary remove the filter housing (pos. 9) of the suction tube and rinse thoroughly. When necessary rinse the cleaning nozzle.


AQUADRIVER®
SkimClean Helix


Pos.1
Pos.2
Pos.3
Pos.4
Pos.5
Pos.6
Pos.7
Pos.8
Pos.9
Pos.10

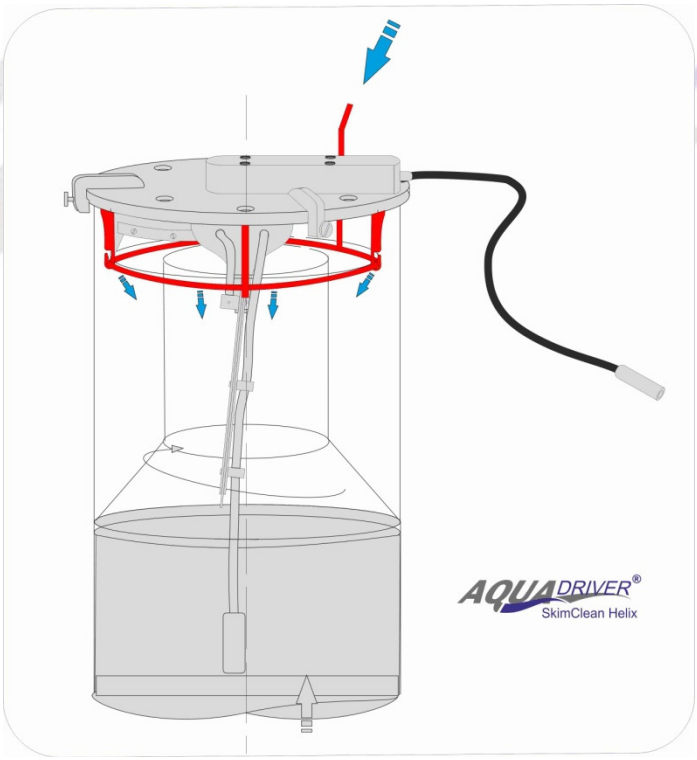
Explanation

Position 1: Drive unit 12V DC
Position 2: Lid set screw
Position 3: hydromechanical rotation pump
Position 4: humidification nozzle horizontal & vertical
Position 5: connection plug to 12V DC
Position 6: vertical adjustment device / Wiper
Position 7: Wiper with hose and wiper blade
Position 8: self sucking silicon hose
Position 9: Removable filter
Position 10: Horizontal Wiper for Lid Cleaning

Optional Equipment

Wash down lid

Ring tube with nozzle holes to clean up the skimmer pod (Connection tube diameter 6mm)



Warranty

According to the following regulations we warrant you a period of one year for private use of our devices. The warranty time begins with the day of delivery, which must be proven through an original document such as an invoice or delivery document. During the warranty period any functional fault on the device caused by lack of quality or faulty material will be covered. The necessary spare parts and labor time will not be charged.

Exceptions: The warranty does not include natural wear, transport damages, or damages caused through negligence or improper installation. The manufacturer is not liable for subsequent or capital damages. The warranty is not extended or renewed after repair works. For warranty issues, faults or replacement parts please contact your dealer.

EG-Conformity Declaration according to EG-Machine regulations 98/37/EG
Annex II A

We declare that the machine described as following goes conform by the listed regulations.

Brand: SkimClean HELIX (automatic cleaning device for skim tubes of floatation reactors)

EG-Regulations:

Machine regulations	(98/37/EG)
Low voltage regulations	(73/23/EWG)
32. BImSchV regulations	(2000/14/EG)
RoHS	(2011/65/EU) ISO/IEC 1702
EMV regulations	(2004/108/EC)
	(EN 55014-1:2006)
	(EN 55022:2006)
	(EN55014-2:1997+A1:2001)

Text: Regulations according to the council approved upon May 3rd 1989 for adaption of legal rules of the members for electromagnetic compatibility.

Changed to RL 91/263/EWG
Changed to RL 92/31/EWG
Changed to RL 93/68/EWG

Harmonizing European Norms	DIN EN 292 Safety for Devices and Units
	DIN EN 294 Minimum Distance
	DIN EN 1050 Risk Valuation
	DIN EN 954-1 Risk Evalation

ElektroG EAR WEEE-Reg.-Nr. DE 58300548

National technical regulations VBG 5 Power supplied working devices

15/10/15

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