



DFH – Disc filter R.05

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NOTE:

1. INTRODUCTION

Before proceeding with any operation, read carefully the present manual as to avoid any unplanned event and/or mistaken usage of the machine. The present manual of usage and maintenance is part of the technical documentation given together with the machine and its purpose is to give all the necessary information for a correct and safe usage of the machine

Attention !

1.1. Prefaction

The following manual describes the principals behind the working process of the machine, based of the following premises :

- **Fluiteco S.r.l.** keeps the right of apporting modifications to its products whenever and without warnings.
- The present manual cannot be sold / given to others without the authorisation of **Fluiteco S.r.l.**
- This manual is lied to the sale of this machine and must always be present in this factory , in case of damaging or unreadability we plead you to request a copy
- The machine must only be used for the purposes **Fluiteco S.r.l.** built it for, every other usage can be considered dangerous and improper. **Fluiteco S.r.l.** doesn't assume any of the risks caused by the inaccurate use of the machine
- Every action or intervention that modifies the structure of the machine must be done with the accordation from **Fluiteco s.r.l.**

Fluiteco S.r.l. doesn't assume the risks caused by the improper modifications not accorded with the technical division of **Fluiteco s.r.l.**

- Always use the original substitution objects **Fluiteco s.r.l.**

Fluiteco S.r.l. has no responsibilty in case of damages to human beings, animals or objects, caused by the fixingof not original substitution objects.

1.2. Symbology of warning

During the read of the manual you will meet with various types of simbols: the correect interpretation is as illustrated in the following chart.

<u>WARNING OF GENERAL DANGER</u>	<u>This type of warning shows the dangers for the people working in the implant. Whenever this symbol is present, the employees might get hurt.</u>	
<u>DANGER WARNING CAUSED BY HIGH VOLTAGE</u>	<u>This type of warning indicates the presence of high voltage. Before executing any action on the machine, cut the voltage by operating on the power lever.</u>	
<u>ATTENTION WARNING</u>	<u>This symbol warns one to pay attention to the following words.</u>	

1.3. Identification of the machine

the machine is identified by the plate, here presented and described. The plate is easily identified on the metal structure and is generally positioned in an easily spottable location. La targhetta riporta le seguenti diciture:

- 1) Name and avenue of the constructor
- 2) Machine's model;
- 3) Matricolation number;
- 4) Year of construction
- 5) Power
- 6) Weight

		QUASI MACCHINA / PARTLY COMPLETED MACHINERY <small>M.D. (2006/42CE)</small>
MODELLO / MODEL		
NUMERO SERIALE / SERIAL NUMBER		
ANNO DI PRODUZIONE / PRODUCTION YEAR		
WEIGHT / PESO		Kg
POTENZA MOTORE / MOTOR POWER		Kw
TENSIONE MOTORE / MOTOR VOLTAGE		V

The information on the plate cannot be changed.

When contacting out technical services , we beg you to always communicate the model and the matriculation number of the machine

1.4. Guarantee

Fluiteco S.r.l. guarantees that the machine was tested in every safety and functional.

The duration time of the guarantee is shown on the contract and refers to the mechanical components that the constructor offers himself to substitute for free. The electric motor, eventual electric and electronics defects caused by external factors are not imputable to Fluiteco S.r.l.

A mistaken maintenance or an improper utilisation of the machine causes the degeneracy of the Guarantee.

Every alteration of the product, in particular on the protective gear/devices, will make the guarantee decade and free the constructor from every responsibility.

1.5. Manufacturer's declaration (Type A) Machine

The machine is constructed upon the directive 2006/42/CE and its successive versions. The machine is destined to be incorporated in a factory based upon the needs of the installer.

Together with the manual is allegated the declaration of the constructor scheduled by the **Direttiva 2006/42/CE**.

1.6. Manufacturer's declaration (Type B) Electric engines

It is also reported in allegation the declaration of the manufacturer on the electric motor and the relative gear unit

Attention !

1.7. Technical service

To obtain the best performance of the machine and avoid any problem that could cause the degeneration of the guarantee, following the sequent warnings reported in the manual.

This manual of use and maintenance is a **fundamental part** of the machine and must be easily accessible by all of the qualified employees. In case of malfunctioning, the present manual can help understanding the problem and, after consulting the necessary controls, it might be necessary to call the technical service of Fluiteco. Upon contacting the technical service , always provide the model and matriculation number of the machine; these informations are written in a complete and exhaustive manner on the identification plate on the machine.

2. RECEIVING AND INSTALLATION

2.1 Packaging typology

The machine is usually placed upon a flatbed made of fumigated wood. Such flatbed is adequately dimensioned based on the encumbrances of the machine, which is positioned and fixated with bindings at the bench-bed. In alternative to the flatbed a cage made of fumigated wood can be predisposed. The WAU's tank is given without being package because of the dimension of the machine.

2.2 Unloading

The unloading and positioning of the machine must be effectuated with an unloading equipment appropriate to the weight and dimension of the machine(the weight of the machine can be seen of the identification plate).

In case the machine is packaged please also take in consideration also such weight. The lifting of the machine must happen only through the proper ringbolts. Connecting to such ringbolts exclusively with hooks with a proper security closure. In case of packaging (cage or flatbed) , handle the structure by connecting the hooks with bands or lifting chains , put in corrspondence to the rafters, making sure an equal weight distribution is present.



LIFTING RINGBOLT

2.3 Purpose

The DFH series were made to treat the wastewater.

It was made to receive the wastewater from a tube and to be installed on a planar surface or inside a canal . In such case, it is needed the version with the tank called DFH – T

2.4 Conditions on the usage limits

The optimal temperature of the machine is between 0°C and 50°C as the formation of ice inside the machine causes defects in the whole machine; the same thing can happen when the temperature is too high.

In ice-stricken areas the machines without a proper temperature-regulating device must be put inside of a proper building, so that the machine can operate without problems and in optimal conditions.

The formation of ice inside of the machine can cause the malfunctioning of the entyre system..

Fluid typology : suspended water and solids

2.5 Installation procedure

- a) Before proceeding with the installation it is suggested previewing the adequate handling places around the machine to facilitate the maintenance.
- b) Lift the machine using the proper ringbolts
- c) Lower the machine until it reaches a planar surface in the implant or inside the canal, fixing it to the ground
- a) Attach the fixed tubes of the machine .



fixing hobs

Attention !

N.B. an inadequate fixing can cause damages to objects, animals and human beings.

2.6 Electrical components

The machine is provided with the standard electrical components necessary for the working process of the machine:

- Electric gearmotor

The functioning of the electric gearmotor can be regulated through the control panel or based on the water level (optional) put upstream of the input.

The connection of every electric unit are always a responsibility of the acquirer and must be effectuated respecting what is written in the specific manuals.

2.7 Technical characteristics of the electric components

They can be found in the specific documentation allegated with this manual.

What the manufacturer said about the ambient and the electric junctions must be respected .

3. SECURITY NORMS

3.1 Improper usage

The machine is provided with every protection necessary, however there are zones in the machine that can be protected only with the ambient of the implant where it is installed. Such fundamental protection is the installer's and the acquirer's responsibility.



Attention !

Screened materials' outlet



Filtration zone



It's the responsibility of the final acquirer providing with the adequate devices the safety of his employees

3.2 Safe usage

To avoid any type of incident, read carefully the following informations.

- The machine can only be used by the authorised personnel.
- The machine can not be utilised for a purpose that differs from the acquirer's original request.
- All the junctions must be made by the authorised personnel.
- Effectuate a correct fissage between the different machine's units and a correct junction at the stamping floor.
- When the machine is in function the employees must remain at a safe distance from it.
- Before starting the machine carefully check if all the safety devices are connected and that the machine is in perfect conditions.
- In case of any defect , in particular on the safety devices, the operator must inform his superiors, the safety accountables and the operator of the eventual successive shift.
- If the defect doesn't let the machine perform at 100%, the machine has to be stopped.
- It's forbidden to remove the protections and the security devices close to the machine.
- Every control, maintenance ecc... must be done by the authorised personnel.
- The authorised personnel must wear suitable clothes. Ask for the safety accountable about the supply of such equipment (shoes, gloves, ecc.....)
- Unplug the high voltage before effectuating any operation / maintenance of the machine.
- To avoid any accidental starting of the machine during inspections, cleaning, or maintenance, position the switch in the OFF position and press the emergency button.
- Before activating the machine be sure that all safety devices are functional.
- Fluiteco S.r.l. denies any responsibility for damages to objects , human being and animals caused by the absence of maintenance of the machine.
- It is of absolute importance keeping the implant and the machine under control with frequent inspections (1 every day) as to notice instantly any type of malfunctioning.
- Whenever anomalies occur, turn off the implant as it could cause danger for your safety and that of the factory.

- Make sure that the identification plate is easily readable.
- Having the junction on the ground close to the machine is mandatory.
- Removing the danger plates next to the machine is forbidden.
- Removing or opening the safety devices during the functioning of the machine is forbidden.

3.3 Individual safety devices

The operator responsible for the supervision of the implant must have every safety device on him (gloves, shoes, ecc...).

Once the machine starts, it emits a pitched sound, we recommend to protect your hears with soundproof earplugs.



N.B.: THE EVALUATION OF THE SOUND PRESSURE MUST BE DONE BY THE COMMISSION UPON THE INSTALLATION.

3.4 Implant's safety devices

Every implant must be provided with an emergency button to stop the machine in case of emergency. By pressing such button, the machine stops itself, in case of dangerous situations in the implant.

The emergency button must always be in close proximity to the machine and must always be easily accessible. It's the responsibility of the installator assure the presence of all the necessary protection gear and to guarantee the safety of the implant.

OTHER RISKS

The following chart resumes the risks and how to reduce them.

Images	Description	Protection measures
	The machine has parts moving that might cause lesions.	Doing maintenance while maintenance is on is strictly forbidden.
	The machine must have an electric system of its own .with the removal of specific parts it must be possible to have access to high tension zones.	Turn off the alimentator before every operation. Only authorised personnel can have access to junctions electrically connected.

	<p>Danger caused by possible falling pieces</p>	<p>In the proximity of the machine the floor might be unstable because of water losses. Take every step carefully, it can be slippery.</p>
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4. DESCRIPTION AND CHARACTERISTICS

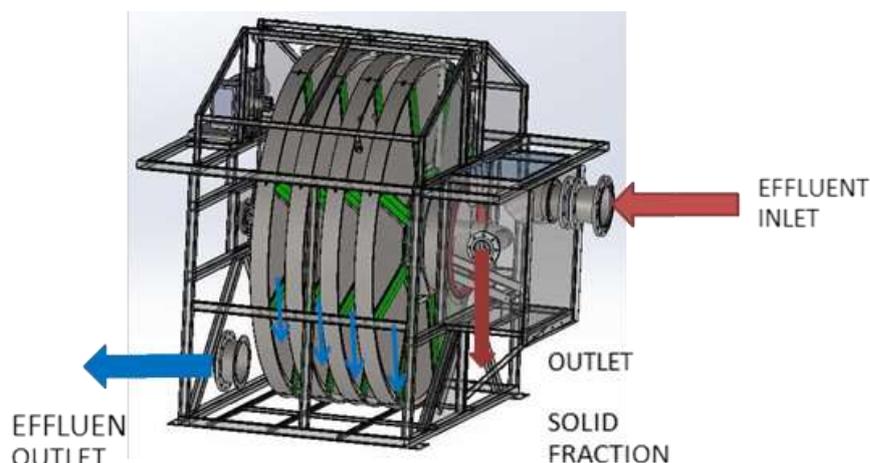
4.1 Proper usage and description of the working process

The **DFH – DISK FILTER** is one of the most advanced solutions on the market and is the latest technology regarding a modern filtration implant .

The machine can be installed on the ground or inside a steel tank – this version is called **DFH-T - DISK FILTER IN TANK**.

Every disk present internally of the machine is made of eight plastic looms with filtering tissue made of stainless steel (20 mm of width) and every loom is fixed to an octagonal central tube. The wastewater, once they have entered the intern of the system, fall inside the gavity disks and filtered by the filtering tissue. The filtered water is successively collected on the bottom of the stainless steel tank. In the first moment the disks are in a resting position (they are still) until the tissues are not completely occluded. This occlusion causes an increment of water inside the disks and the octagonal tube . This increment is noticed by a sensor, which activates the gearmotor and, consequently, the disks rotation . This rotation , together with the high-pressure washing, cleans the filtering link inside an inclined hopper located at the center of the central octagonal tube, which permits the expulsion of wast through the dedicated outlet. The DFH can be made in stainless steel AISI304-316 (L), and is totally customizable depending on the customer’s request .

WORKING PRINCIPLE



Every other use of the machine will automatically determine the loss of the guarantee and relieves Fluiteco s.r.l. from every responsibility in case of damages to objects, animals or human beings.

4.2 Characteristics of the effluent that can be dealt with

The functioning, efficiency, and in some cases the integrity of the machine can be mined if it is used to filter the wastewater that present these anomalies :

- The screened substances, sands and grease cannot be mechanically separated from the liquid .
- The screened substances, sands and grease agglomerate between them or parts of the machine.
- The screened substances, sands and grease encrustate (by themselves or attaching to some parts of the machine),
- The screened substances, sands and grease chimically react between them (polymerizing ecc.),
- The wastewater tends to freeze.

In case that the screened materials agglomerate and encrust themselves, it must be possible to remove the solid substances from the machine's elements through high-pressure water jets

5. USAGE OF THE MACHINE

Attention ! Large units must work with: Inverter (Hz regulator), Soft Start/ Soft Stop.

5.1 Starting procedure

Before proceeding with the start/stop of the machine, check if every impediment conditions were eliminated. Also check if every safety device is fully operational.

- verify if external substances or water infiltrated the machine . in such cases, remove the coating and clean.
- verify that every blockage system utilised for transport were removed .
- verify if the engine conditions are correct, and that it wasn't subjected to any damages during transport and installation.
- verify that every electrical junction was made in a correct way, and that there aren't any open boxes,wires ecc. ecc.
- verify the correct functioning of the emergency button close to the outlet .
- verify that the charge and discharge areas were adequately marked and delimited and signaled by the proper warning signals.
- verify that the danger signals were placed on the machine .



- control the correct fixage of the machine and verify its stability .
- verify the correct functioning of the auxiliary functions, such as cleaning a alimentation.

5.2 FIRST START

The first test after the installation must be effectuated with an empty machine for approximately 2 minutes . Verify that:

- there are no anormal noises .
- there are no vibrations .
- that the machine is stable . if everything works correctly, proceed with the waste filtration . if necessary make some adjustments and/or maintenance, it is fundamental unplugging the alimentation before operating .
- verify that the screw screen rotates in a counter-clockwise manner. If not, invert the junction in the engine.
- make sure that the oil in the reductor is at an acceptable level.

5.3 OPERATIONS

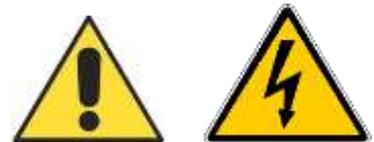
After the first 12 hours of working control the following points :

- the clamping of the bolts.
- the support 's conditions.
- the engine's temperature.
- the oil level in the gear .

depending on the installation , the functioning of the machine can be controlled by a control panel in close proximity of the machine or a remote control .

- in case of a long period of inactivity, stop the reflux from entering and wash the machine. It is important because the transported material tends to harden up after long periods of stillness.

6. ORDINARY MAINTENANCE



This chapter gives the necessary instructions to effectuate the standard maintenance that does not require special operations from the employee.



BEFORE ANY OPERATION MAKE SURE THE ELECTRICAL CURRENT IS UNPLUGGED .

N.B. for what regards the lubrication of the engine and the reductor it is recommended looking at the catalogue of use allegated with this manual.

6.1 Safety conditions in case of maintenance

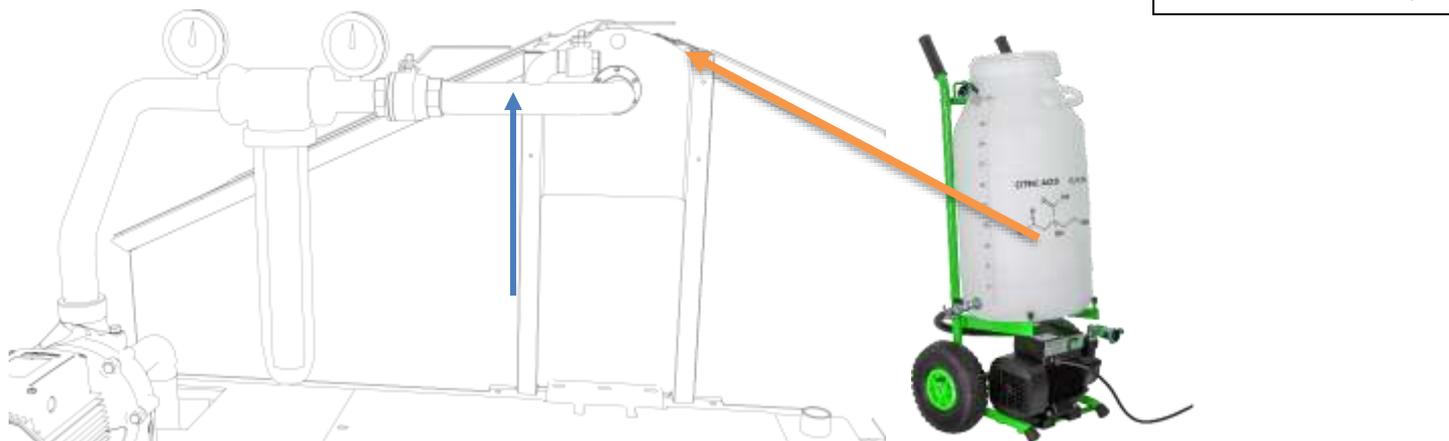
The machine's maintenance must only be effectuated by authorised personnel.

Before proceeding with any type of maintenance, stop the alimentation and unplug the electric units.

To maintain the performance to 100%, it is recommended using only the original substitution parts.

The assembly of not original substitution parts will automatically decadate the guarantee and extents Fluiteco s.r.l. from any responsibility in case of damages to objects, animals or human beings.

6.2 Cleaning for improve filter reliability



Every 300 hours the washing system gets filtered water by disc filter tank. For avoid any clogging we suggest to clean the washing system nozzles and screen meshes with a cycle of citric acid for an entire turn of the disc. Dilute citric acid with water inside the tank, following instructions indicated by product label. Close the main Washing ball Valve indicated by blue arrow, then connect the Chemical Tank Pump to the ball Valve indicated by green arrow.

Activate the Chemical Washing Pump and in Manual mode rotate the discs for an entire 360° turn.

6.3 Periodical Chekings

EVERY WEEK:

- check the usury of the nozzle
- visibly check the damages at the Screen Mesh
- inspection the internal part of the filter to verify the eventual presence of ineliminable fragments and check if there is any sand agglomeration . Manually remove/eliminate it.
- Check the pressure of the manometers located on sides of filter cup, if relevant pressure difference it means that filter as to be clean.

EVERY TWO WEEKS: (depends on the usage and the experience with the machine):

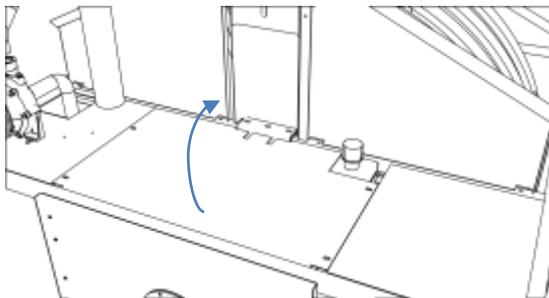
- wash the surface of the structure with clean water. In the salty water implants the risk of corrosion lowers considerably if the suerface is decontaminated .
- grease the rear bearing with grease:2. (grease Molykote Multilub, Rembrandt EP or equivalent)

EVERY TWO MONTHS:

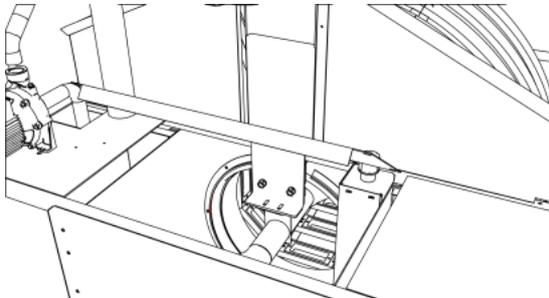
- check the tension of the transmission chain . the tollerance is 5 – 15 mm .
- visibly check eventual damages to the transmission chain (if damaged, substitute it)

EVERY SIX MONTHS:

- Visual checking of front support wheels .
Open the inlet top cover

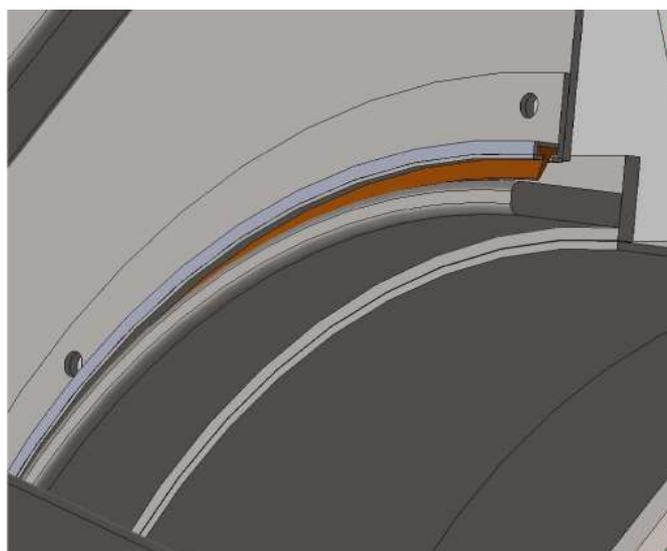
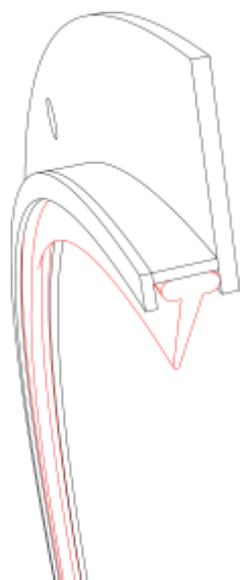
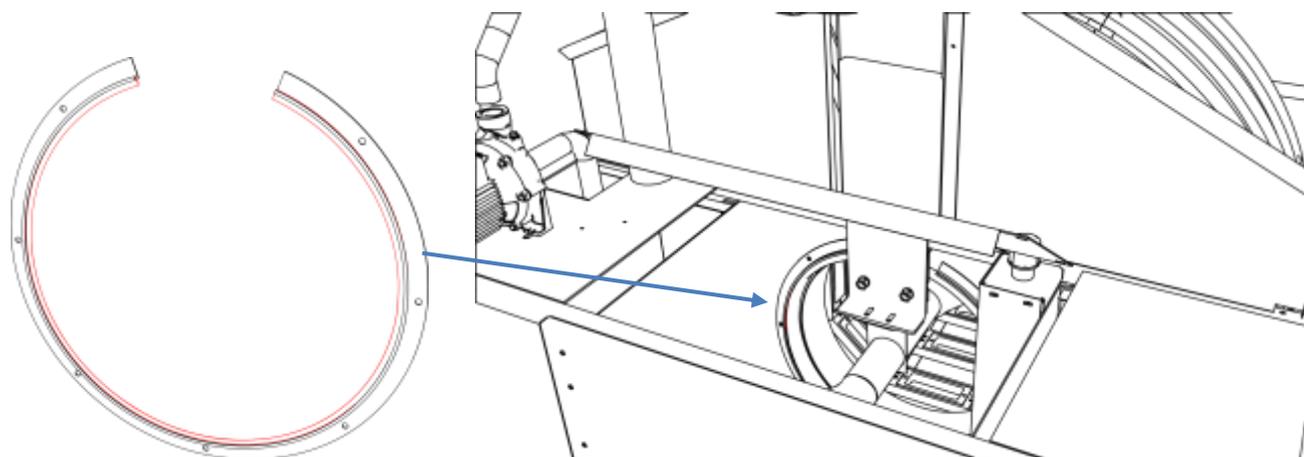


On the rear side of bracket there are N°2 wheels, check the status of them.



EVERY YEAR:

- check the rubber trimming of the entrance mouth between the drum and the filter's structure to check for any damages .



Special maintenance instructions on special maintenance can be found in the following pages in case of a high usury level.



Attention !

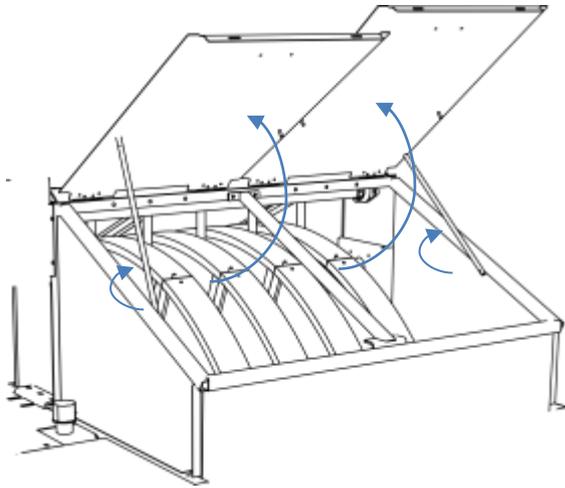
It is recommended , before executing any operation, to thoroughly clean the machine .
Always pay the maximum amount of attention during the maintenance and the relocating of the machine . follow closely the security norms shown in the past chapters .

6.3.1 Removing and cleaning sprayer nozzles

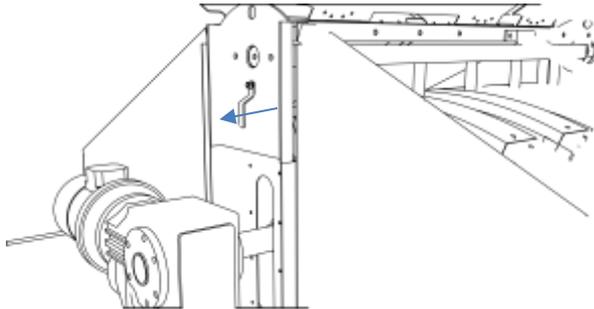
The most common cause of malfunction of the rinse system is malfunction of the backwash system. Clogging is due to particles present in the rinsing water supply or the growth of organisms in the rinsing system. The nozzle clogging activates the blockage of the washing and drum pump and turns on the blue light / button on the electrical panel. Therefore, before pressing the blue / blue button to reset the safety activated, check and clean the nozzles as shown below.

It is necessary to check, once a month, any leaks in the flexible suction pipe of the pumps.

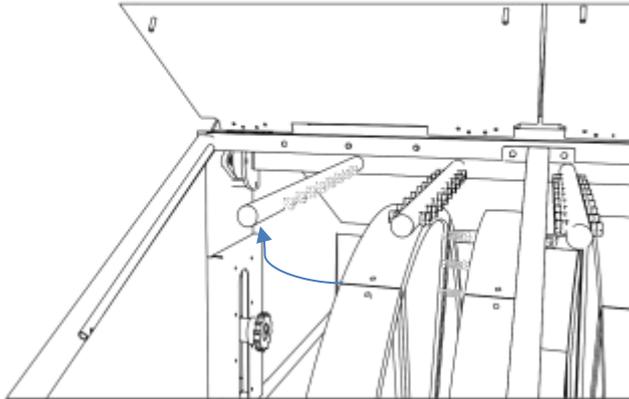
1. Make sure that the wash pump cannot be activated by shutting down the whole unit.
2. Open the top covers and hold them with tube located on the sides



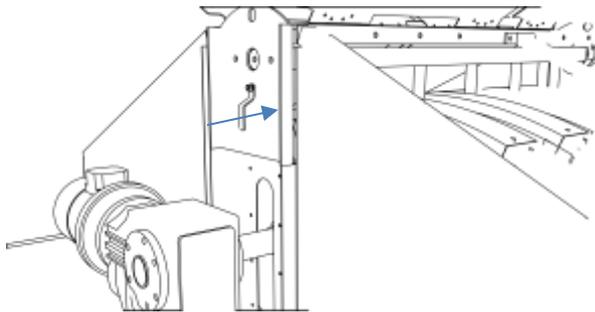
3. Pull the handle to unlock the washes block mechanism.



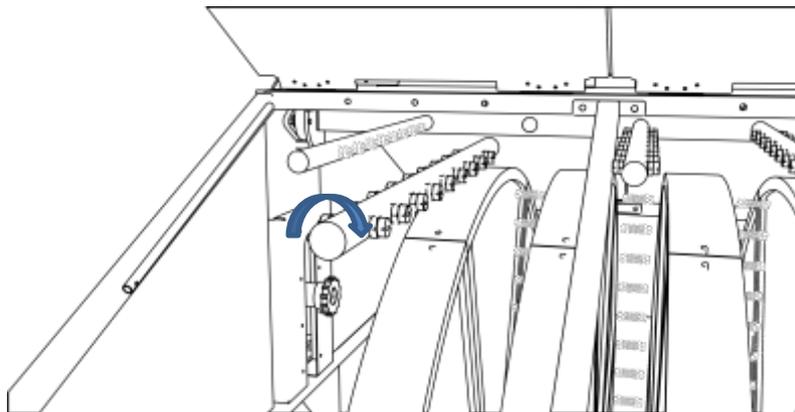
4. Swing the wash towards you, bringing it to 90°,



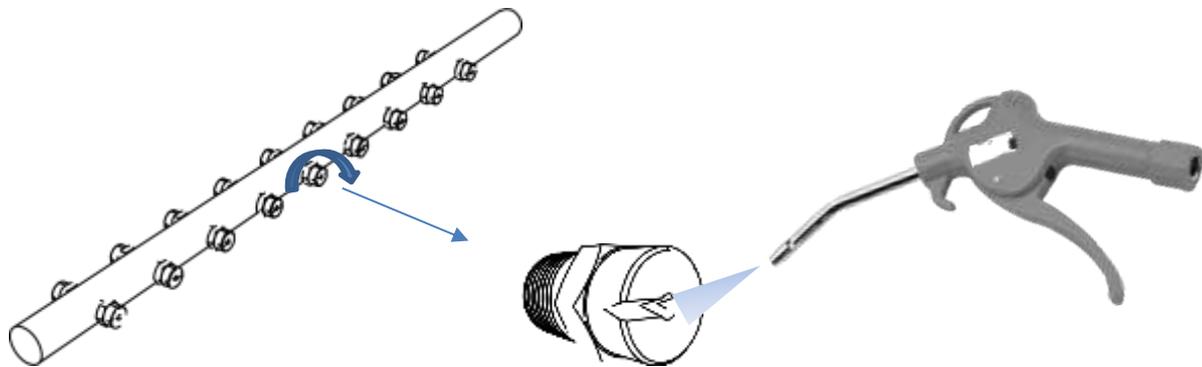
block it by pushing the handle, so as to block it with the pin.



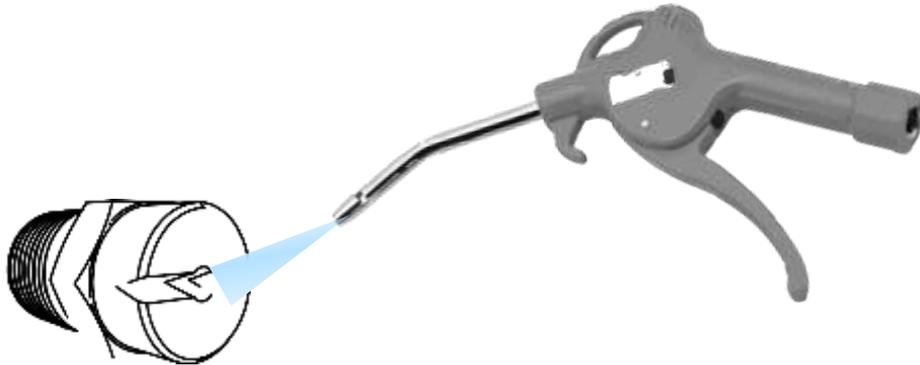
5. Unscrew tubes,.



then remove nozzles



6. Clean the nozzle with compressed air or a plastic brush. Never use brushes or pins in steel, as they may damage the nozzle.



7. Fit nozzle in reverse order, applying LOXEAL 18-10 PIPE SEALANT on the thread of each one. Tighten the retainer by turning it $\frac{1}{4}$ turn clockwise and make sure it is at end of stroke.



WARNING!

It is important to properly reposition the nozzles after cleaning.

Improper mounting of the nozzles produces a jet of water that can destroy the filtering fabric.

6.3.2 Nozzle changing

Nozzles tend to wear and may need to be replaced. The duration depends on the quality of the rinse water. If rinsing water contains sand or similar particles, the nozzles wear out more quickly than using pure rinsing water. When a nozzle wears out, its opening widens. This results in less efficient washing (modified dispersion) and increased rinse water consumption. It is therefore important to regularly check the functionality of the nozzles (at least once a year), replacing them if necessary.

6.4 Chain substitution

The filter is driven by a gearmotor and a chain motor.

WARNING!

Before performing maintenance or service, check the switch is locked in the OFF position.

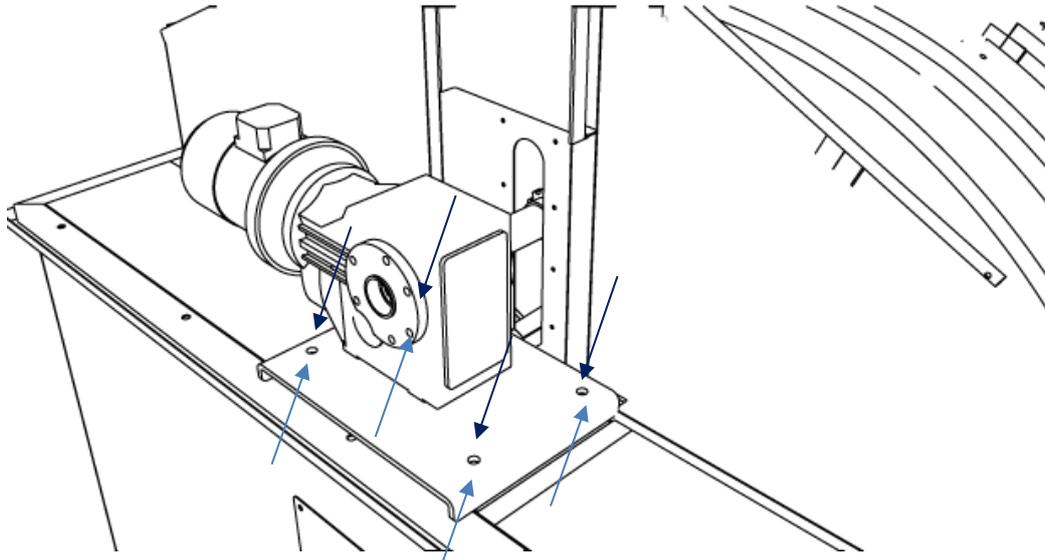
CHAIN CONTROL

Bring the safety switch to the OFF position. Check the chain loosening on the side of the tensioner block. If the chain on its locking side side is almost vertical, adjust the chain settings. During this check, check that the other side of the chain is tight. The chain check must be carried out every two months

CHAIN ADJUSTMENT

- Set the safety switch to the OFF position

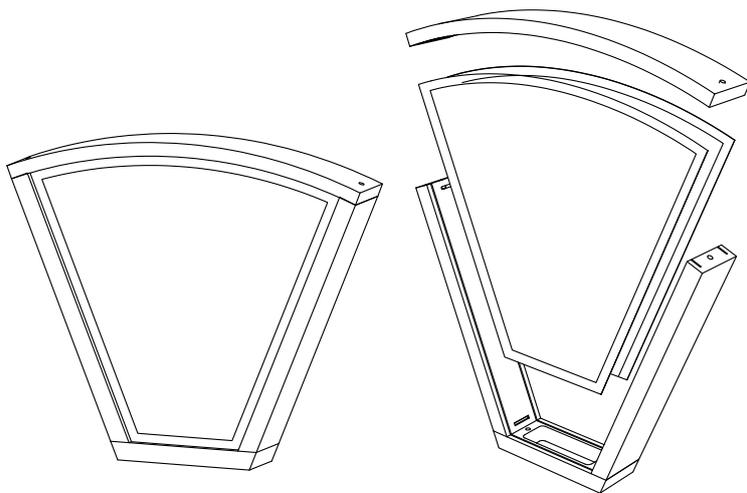
Loosen bolts, above and/or under the motor support plate. Indicated by the blue arrows



- Adjust the bolts to get the chain tension
- To maintain the gearmotor lock level, adjust the bolts individually, with small adjustments each time. With the help of an air bubble level, check that the Drive Unit block unit is in the horizontal position.
- Tighten the bolts
- When the transmission chain is no longer adjustable, it is worn and needs to be replaced The filter is activated by an engine with a motor box and a chain.

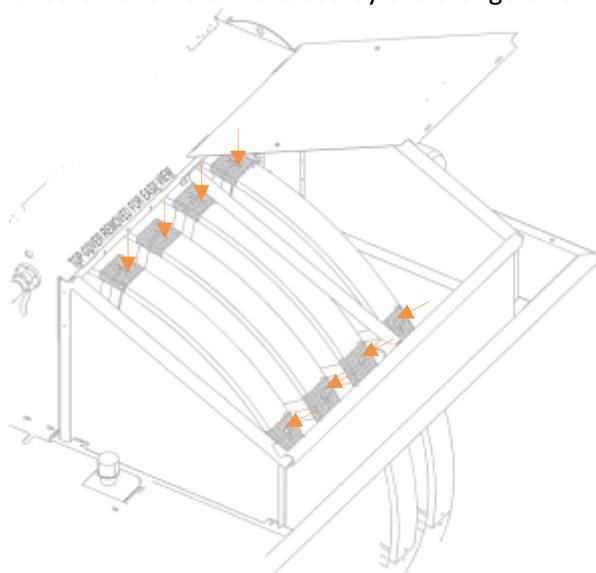
6.5 Mesh Replacement

Mesh Replacement the need becomes apparent as the frequency of automatic washing increases or you may notice at the outlet a solids content higher of the filtration aperture. Visual check must be periodical.

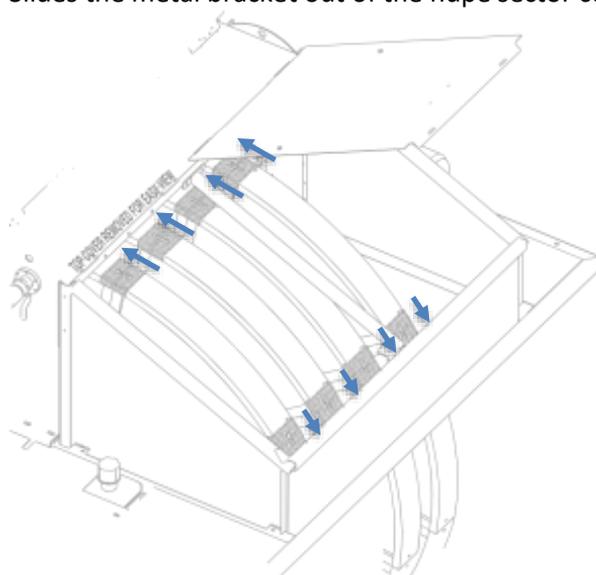


In case of mesh replacement follow the instructions here below:

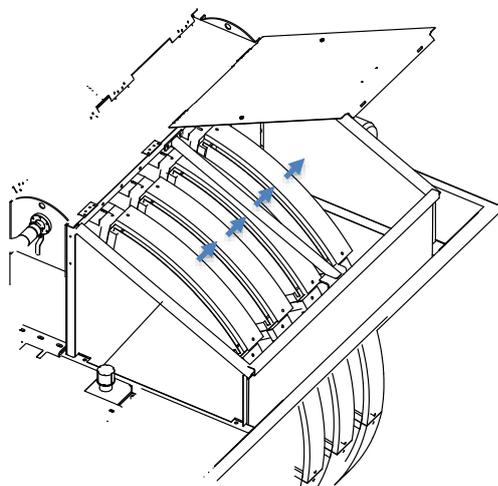
- 1) Turn off the unit and Open the top covers
- 2) Unscrew the bolts indicated by the orange arrows



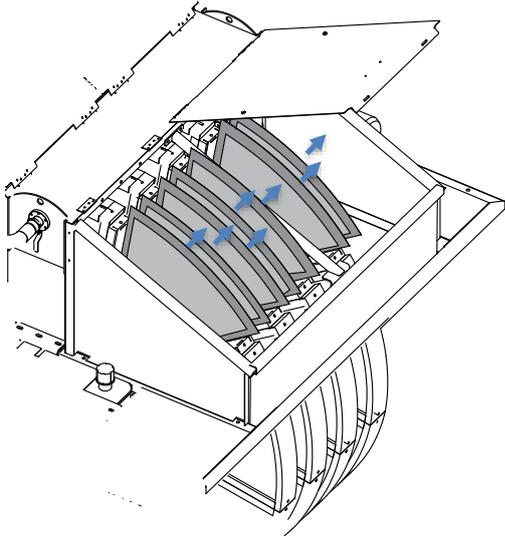
- 3) Slides the metal bracket out of the hdpe sector cover



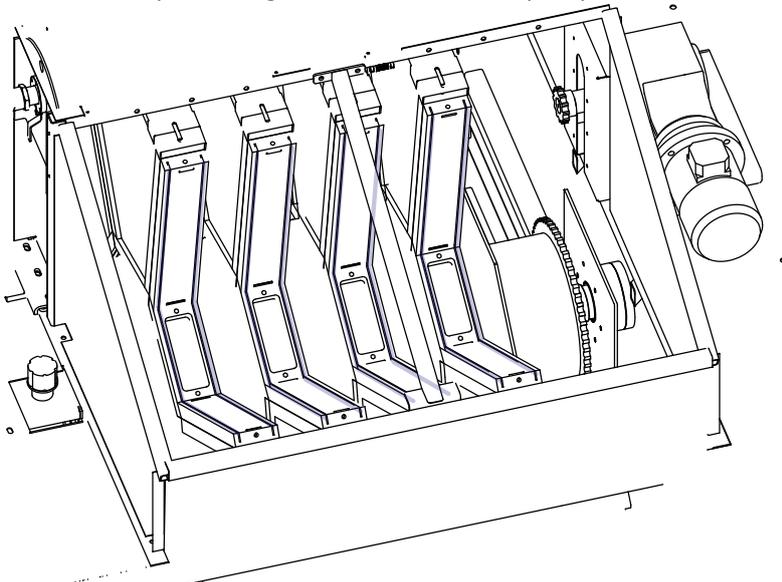
- 4) Remove Sector covers



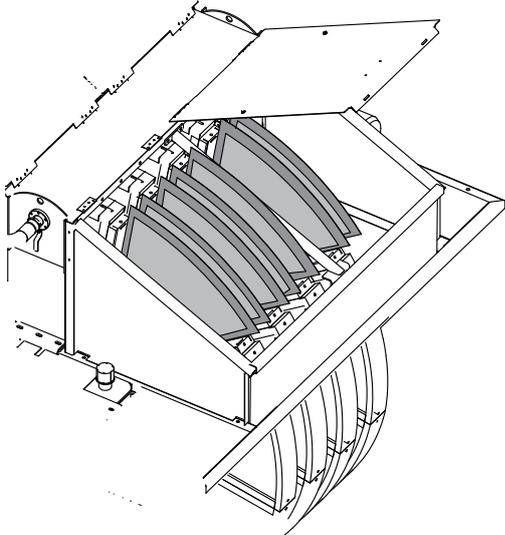
5) Remove the mesh



6) Clean the hdpe mesh groove (blue lines), top hdpe covers too and silicon it



7) Place the new Mesh in the silenced groove



Following the procedure in reverse make sure that the mesh are inside the silicone grooves, this also applies to the cover. Then slide the plates onto the top hdpe covers and bolt them.

WARNING!

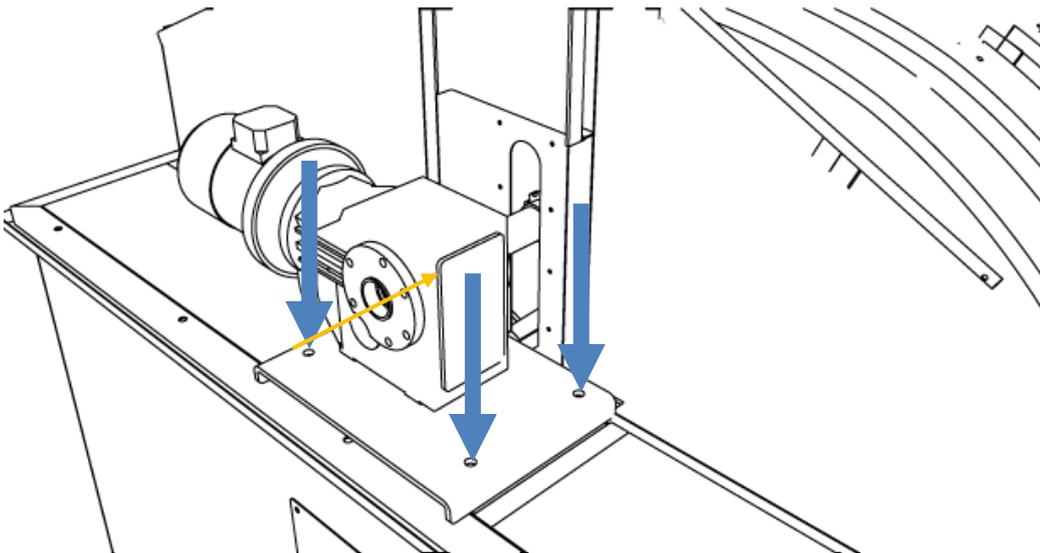
If using a high pressure cleaner on mesh , use a wide opening nozzle and a maximum pressure of 80 bar. Never tighten the cleaning nozzle directly to the filter holder.

HCl and NaOH are highly corrosive. Refer to applicable regulations.

SECTOR REPLACEMENT:

1. Set the safety switch to the OFF position.
2. Unscrew the nuts securing the center drum filter sector with the supplied key.
3. Release the lever locks in the sector.
4. Carefully pull out the filter area.
5. Place a new Sector in the relevant section by matching the base flange with the corresponding screws
On the central drum.
6. Screw the nuts with the supplied wrench
7. Attach the lever closure

6.5 Gearmotor Replacement



Lower the engine support by screwing the bolts indicated by the blue arrows, consequently the engine will go down, then remove the chain from the sprocket. Remove the washer and bolt indicate by the orange arrow, then slide out shaft and pinion, avoid dropping it in the tank. Then lift the motor with the plate and unbolt it accordingly.

LUBRIFICATION

GEAR BOX

The gear box is provided with filling oil, cap level and discharge outlets.

The lubricant used is of synthetic origin, cultivated with antifoam products .



6.5.1 How to order the replacement parts

Once it is necessary to change one or more parts of the machine, the acquirer can request Fluiteco s.r.l. through email : fluiteco@fluiteco.com specifying the following information on the machine

- model;
- serial number ;
- year of construction ;
- code (if given).

Always use original substitution parts made by Fluiteco.

Fluiteco S.r.l. takes no responsibility in case of damages to objects, animals and human beings.

6.6 End of the operational cycle

6.6.1 Long period stockages

In case of necessity to stop the machine from operating it is necessary to follow these following instructions :

1. Disassemble the machine and place it on an adequate surface.
2. Clean the machine in every place.
- 3 Cover the machine .

When starting it again follow the instructions given in chapter 3 of this manual.

Every stockaging information on devices made by others are in their respective manual, that can be found allegated to this present one.

6.6.2 Demolition of the machine

- recuperate the motorgears' oil and give it back to the proper dismantling place.
- recuperate the plastic parts and give it to the proper dismantling places.
- give the metallic parts to the proper dismantling places.

7. ATTACHMENTS

7.1 Conformity declaration

7.2 Motorgears' manual on usage and maintenance

FINDING DEFECTS

Problem			
THE MACHINE DOESN'T START, THE ELECTRIC ENGINE DOESN'T WORK			
THE MACHINE WORKS, BUT AFTER A FEW SECONDS IT STOPS			
THE SCREENED DON'T GO OUT OF THE DISCHARGE OUTLET			
		Cause	Solution
●		There is no electrical energy	Verify the presence of an electrical source
●		Wrong electrical junctions	Repristinate them
●	●	Motorsaving calibration is wrong	Regulate it
●		The net tension is too low while the frequency is too high	Check the net's conditions
	●	Damaged Screen Mesh	Verify and substitute the Screen Mesh
●		There may be damage to the engine	Check that the engine is successfully connected to the alimentation source as told in the identification plate
	●	Support drum wheel may be damaged	Substitute
	●	High percentage of solids in the in the discharge outlet	Check the situation upstream
	●	Discharge outlet blocked	Remove the materials that block the outlet