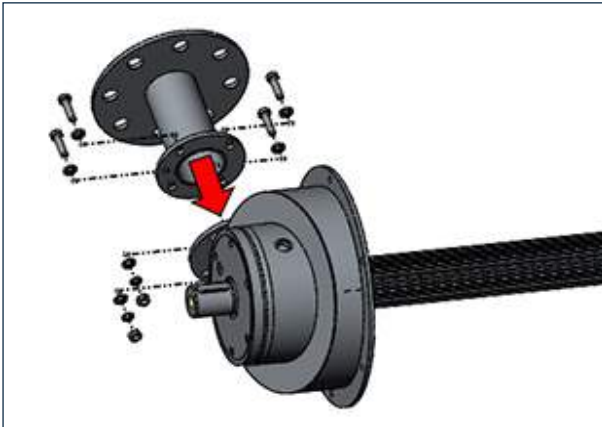
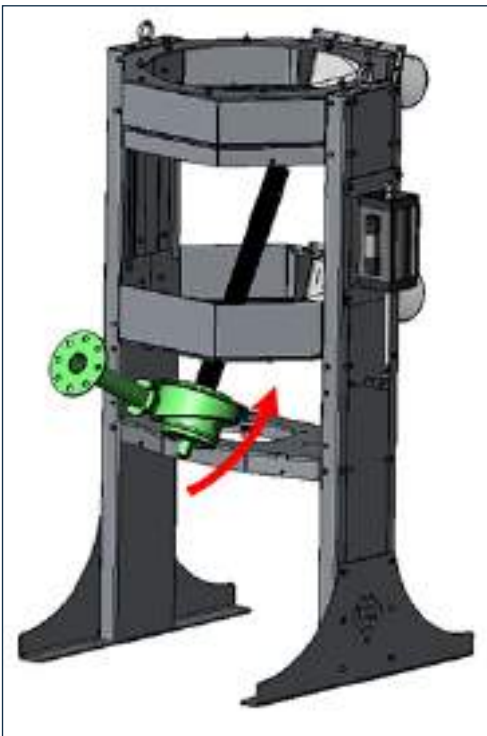




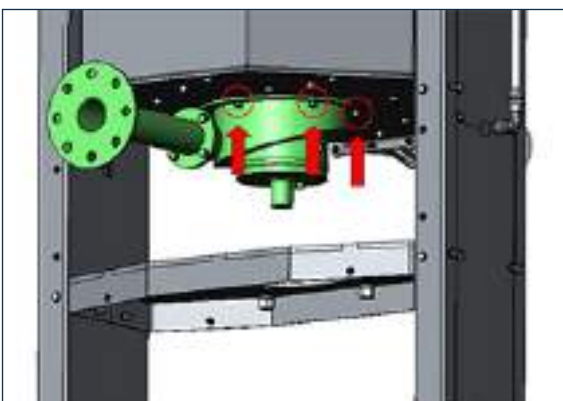
8.0 REPLACEMENT OF PARTS



27) Screw back the spigot to the inlet section.



28) Fit the lower support unit with the shaft onto the micro-filter.



29) Screw back the screws that secure the inlet module.



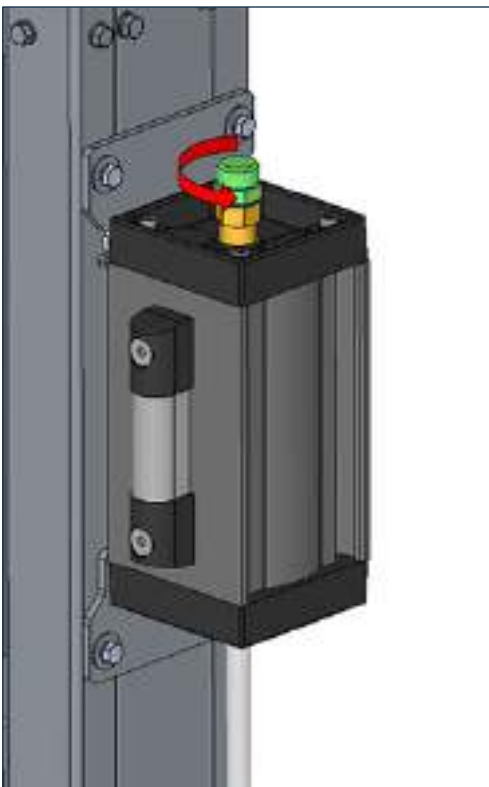
8.0 REPLACEMENT OF PARTS



30) Connect the oil tube to the lower holding unit.



31) Slacken the oil plug.



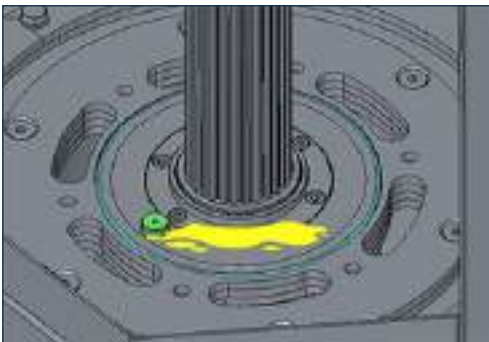
32) Unscrew and remove the plug of the oil tank.



8.0 REPLACEMENT OF PARTS



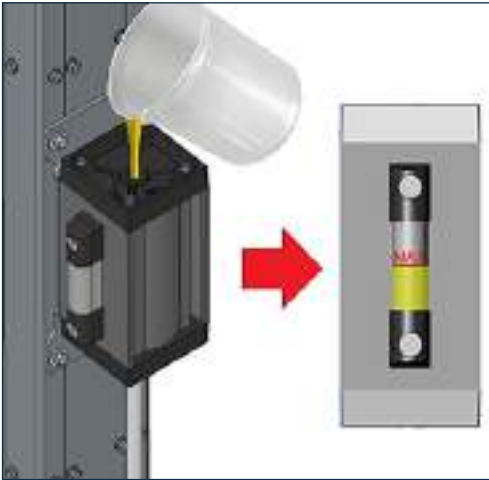
33) Start filling the oil tank.



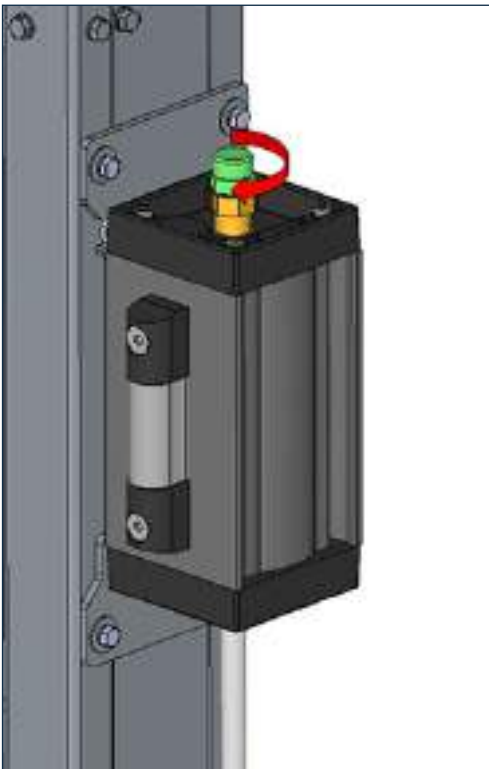
34) Wait for the oil to flow out of the holding unit vent.



35) Screw the support unit oil plug.



36) Keep filling the oil tank until it reaches the MAX level of the indicator.



37) Close the oil tank plug.

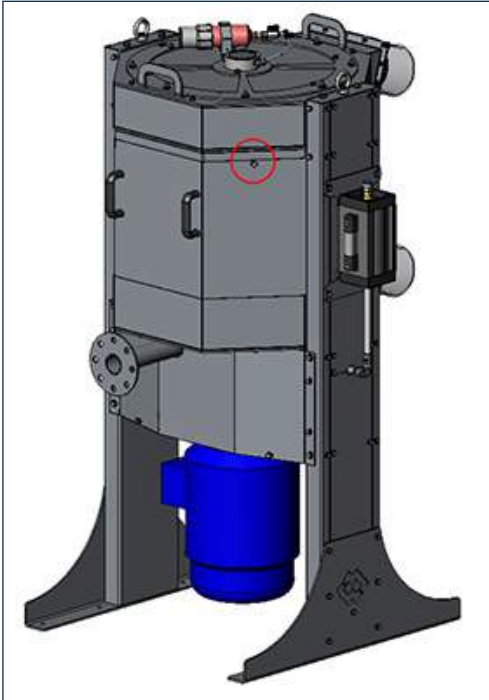


Danger - Warning

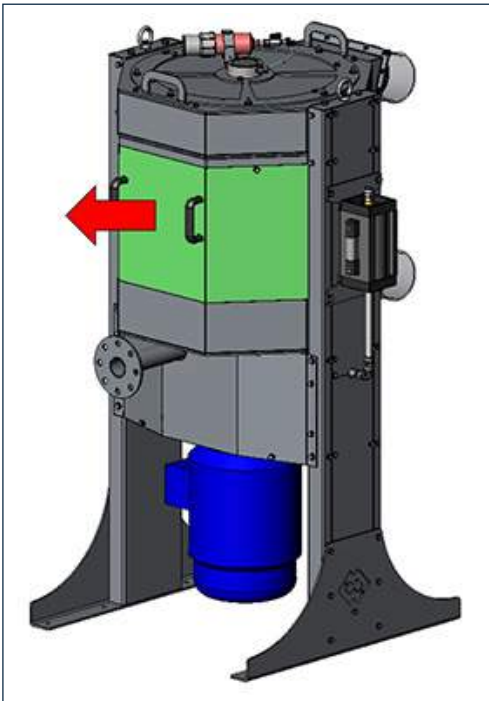
Use exclusively the oil type indicated in the Lubricants table for the impeller support unit.

Fit back all parts of the machine by following in reversed order the disassembly indications from step 19.

8.4 Cleaning and replacing the impeller



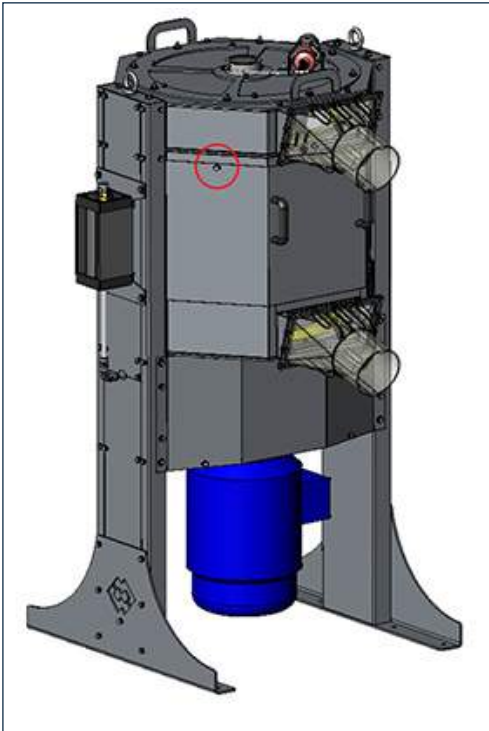
1) Unscrew the screws of the guard on the inlet side.



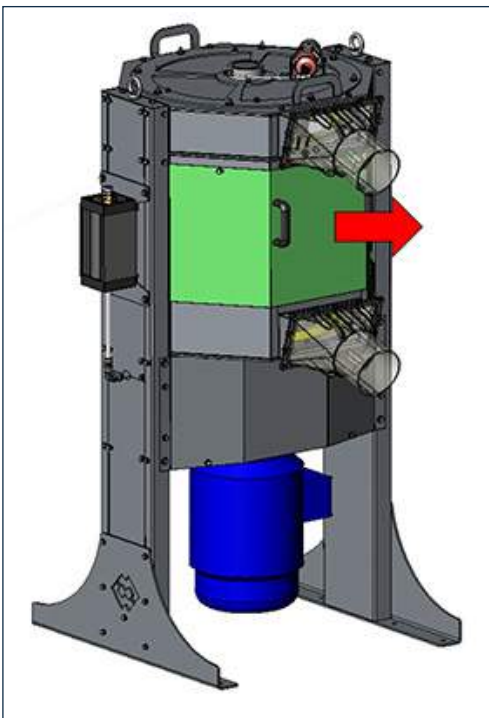
2) Remove the guard on the inlet side.



8.0 REPLACEMENT OF PARTS



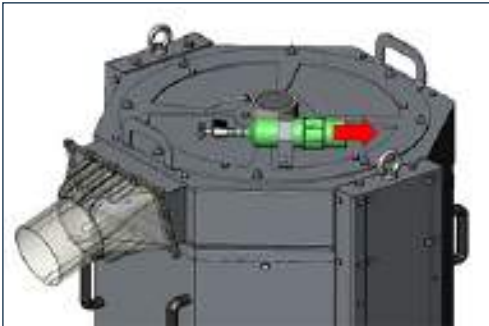
3) Unscrew the screws of the outlet side guard.



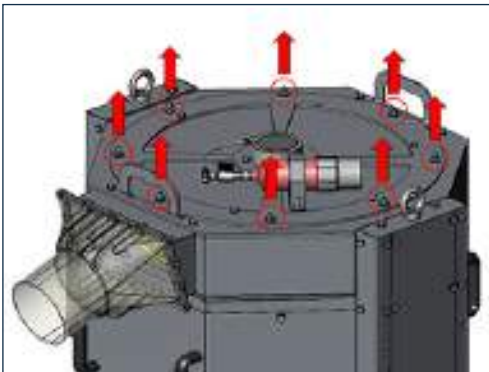
4) Remove the guard on the outlet side.



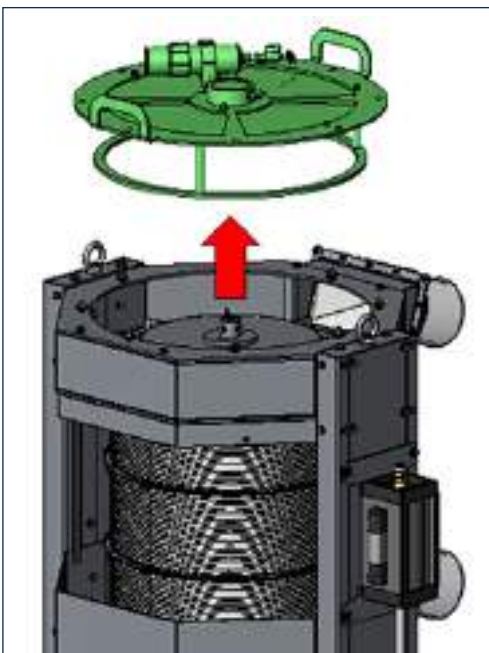
8.0 REPLACEMENT OF PARTS



5) Close the tap and unscrew the greasing device.



6) Unscrew the cover screws.

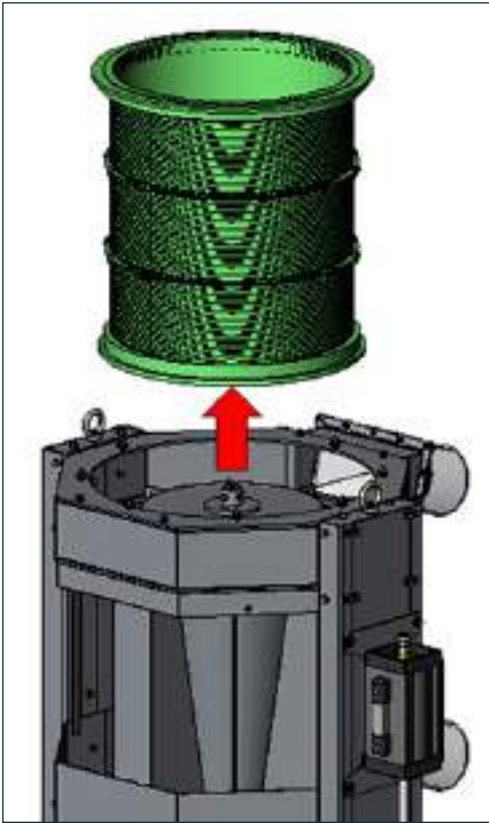


7) Remove the cover.

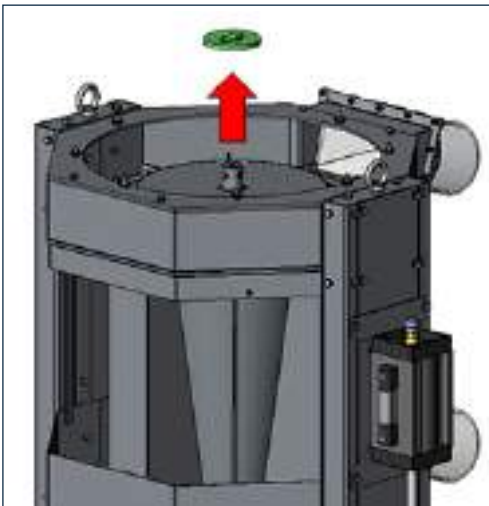
8.0 REPLACEMENT OF PARTS

SEP.SEPCOM_Micro-filter---M.A2.0722.EN Issue: A2

2



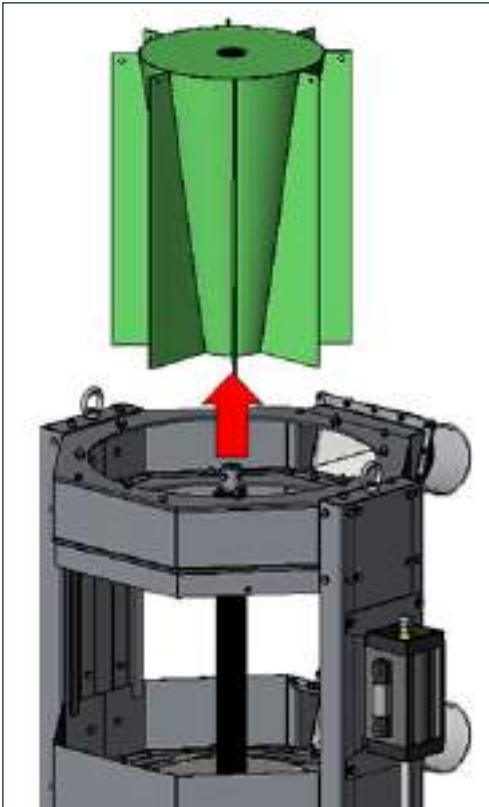
- 8) Remove the screen by pushing it toward the top. Use a pry bar if necessary.



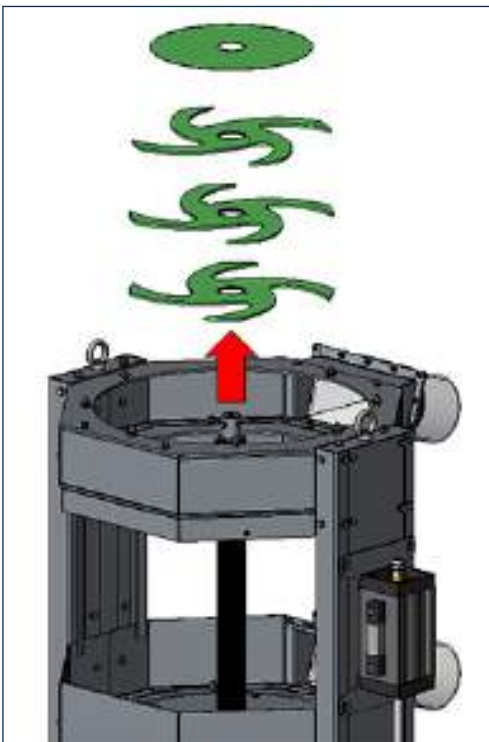
- 9) Remove the spacer.



8.0 REPLACEMENT OF PARTS



10) Take off the impeller.



11) Remove blades one by one.



Important

Prior to replacing the impeller, clean thoroughly the inner side of the machine and of the screen.
Lubricate the shaft prior to inserting the impeller.

8.0 REPLACEMENT OF PARTS

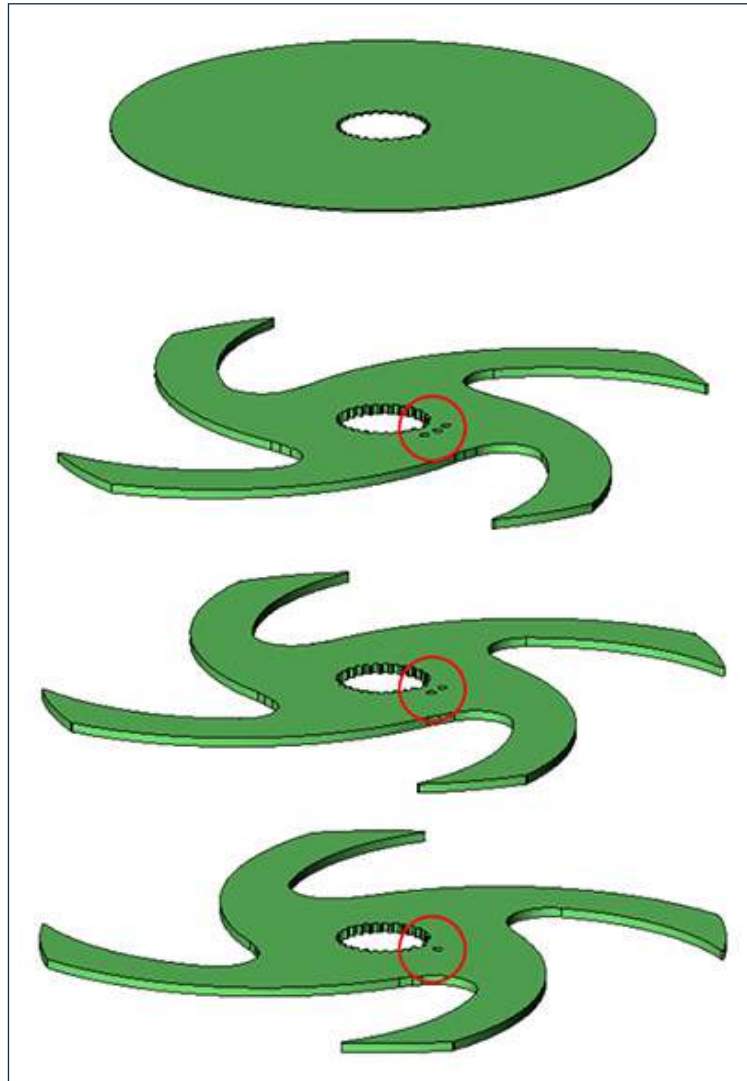
SEP.SEPCOM_Micro-filter---M.A2.0722.EN Issue: A2

2



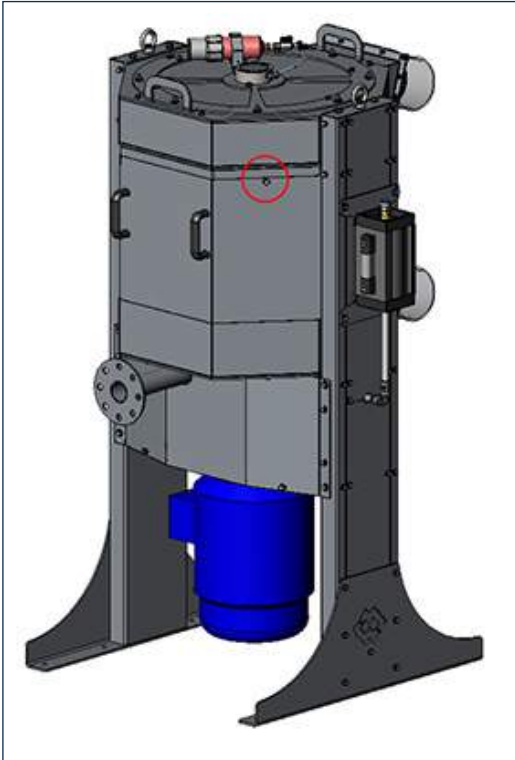
Important

Fit back the tools as indicated in the sequence shown in the image below.
The sequence of bores (from bottom upwards): 1, 2, 3.

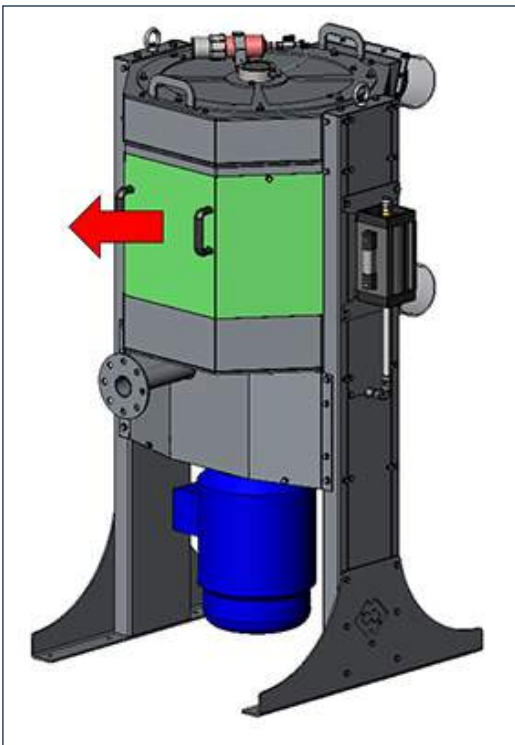


8.5 Inspecting and replacing the screen

8.5.1 Inspecting the screen



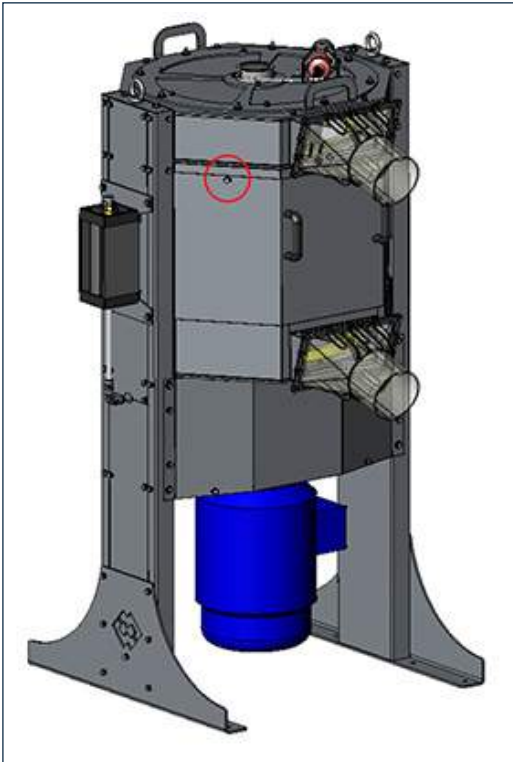
1) Unscrew the screws of the guard on the inlet side.



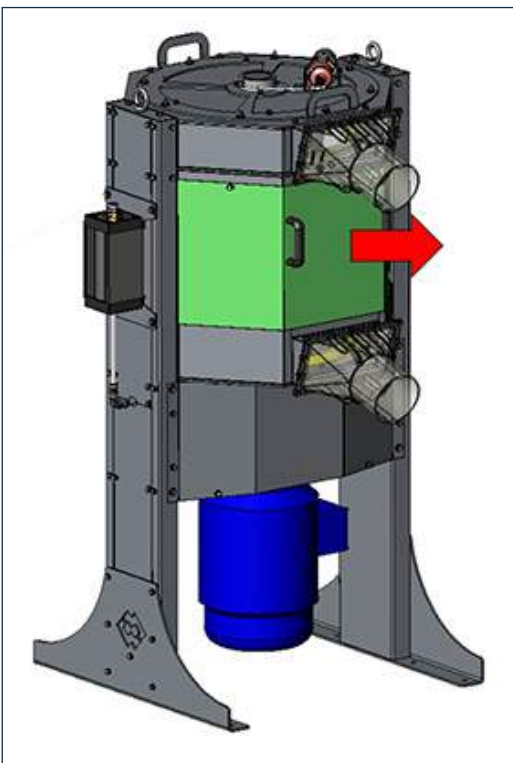
2) Remove the guard on the inlet side.



8.0 REPLACEMENT OF PARTS



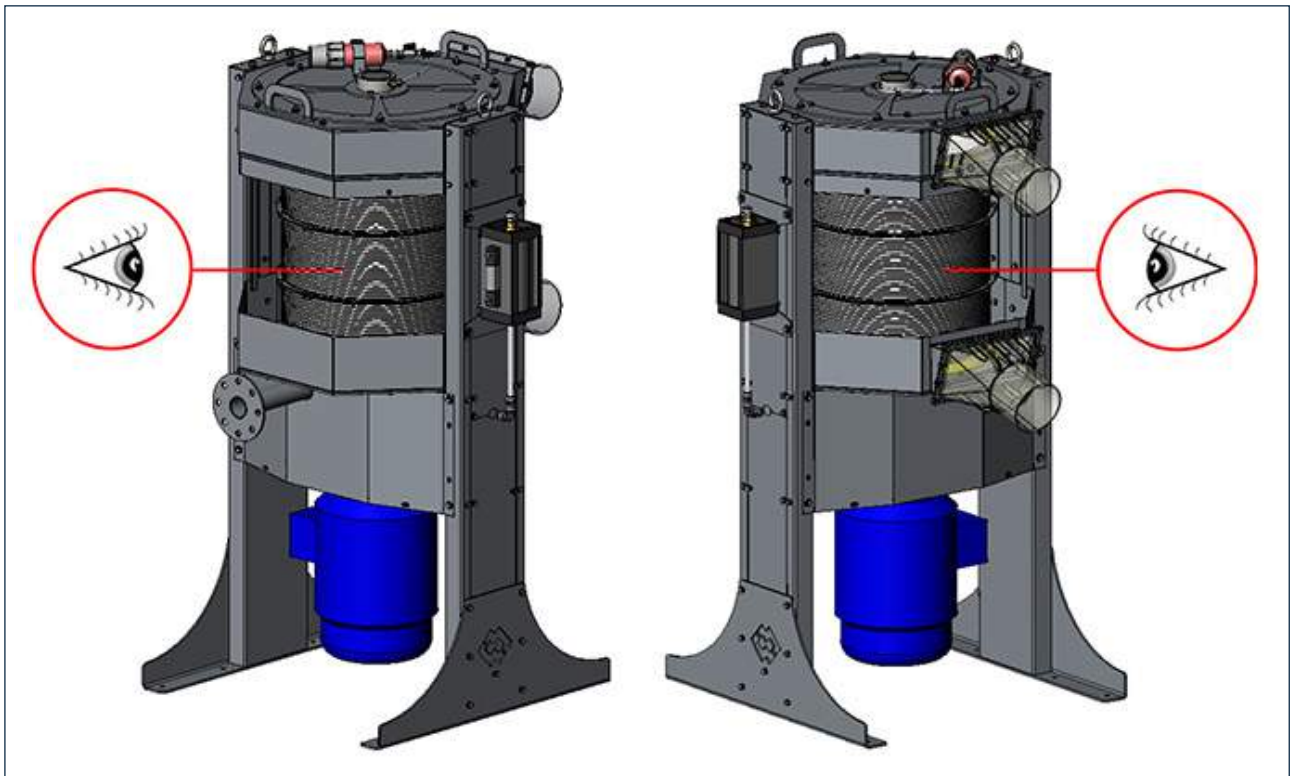
3) Unscrew the screws of the outlet side guard.



4) Remove the guard on the outlet side.

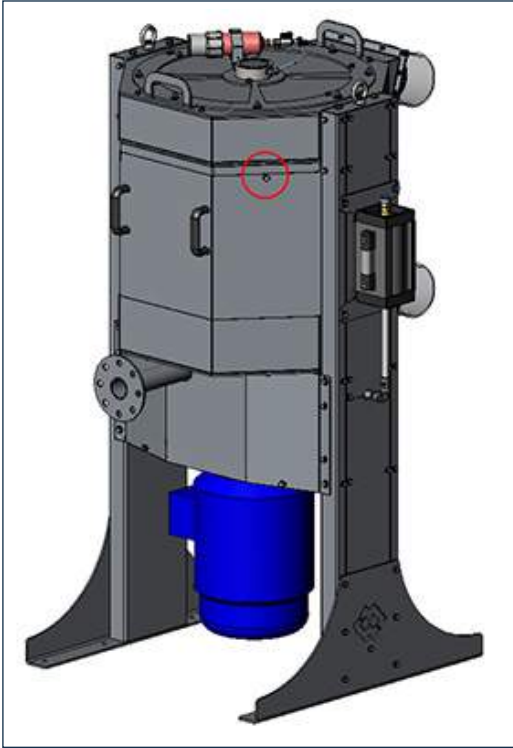


8.0 REPLACEMENT OF PARTS

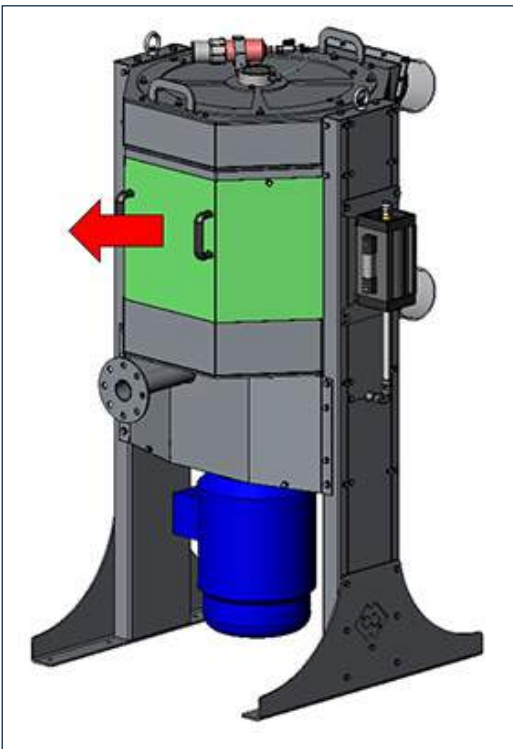


The screen can now be checked on both sides.

8.5.2 Cleaning or replacing the screen



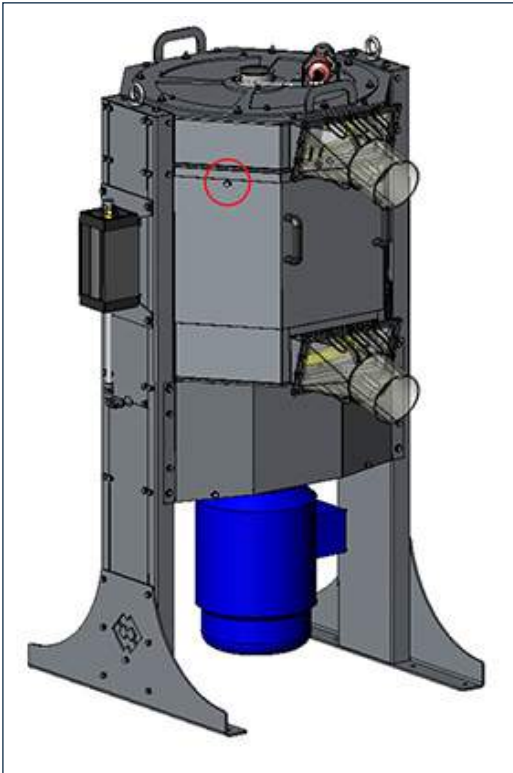
1) Unscrew the screws of the guard on the inlet side.



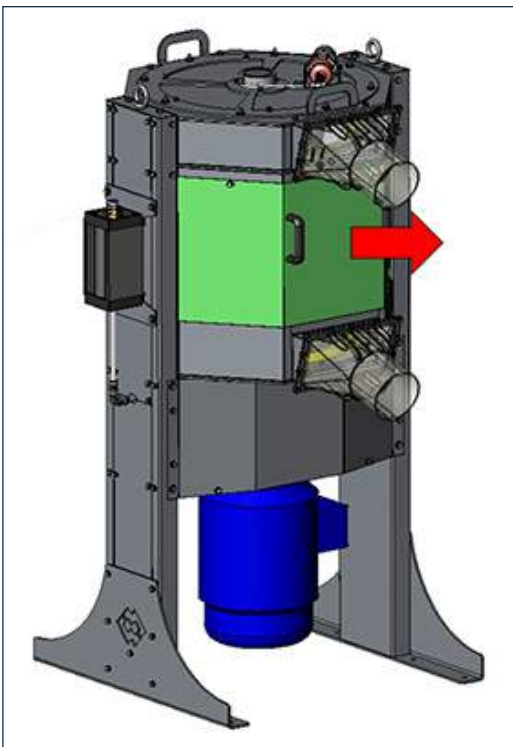
2) Remove the guard on the inlet side.



8.0 REPLACEMENT OF PARTS



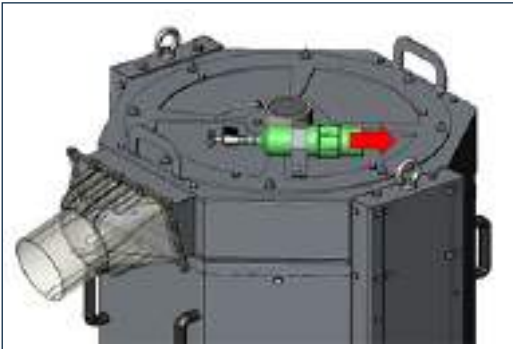
3) Unscrew the screws of the outlet side guard.



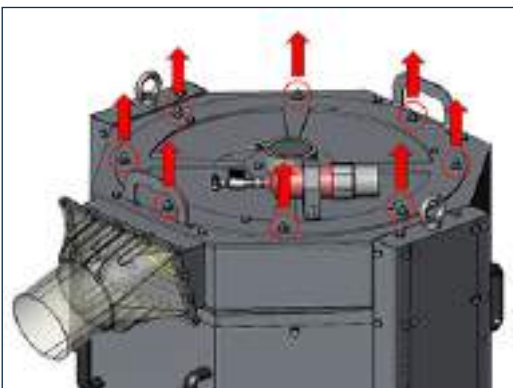
4) Remove the guard on the outlet side.



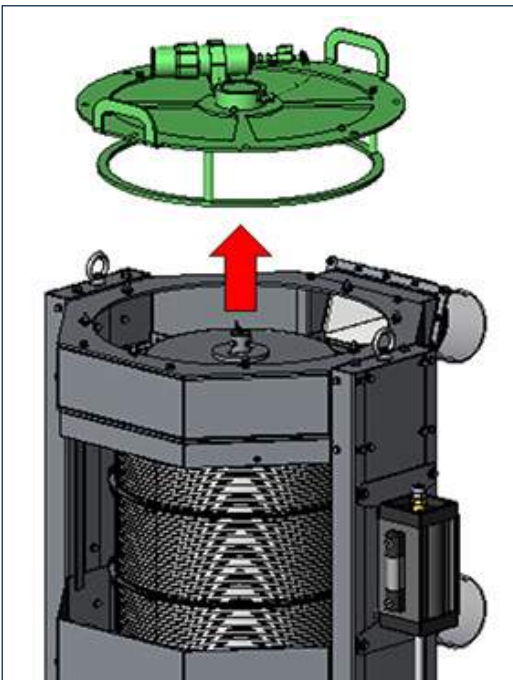
8.0 REPLACEMENT OF PARTS



5) Close the tap and unscrew the greasing device.



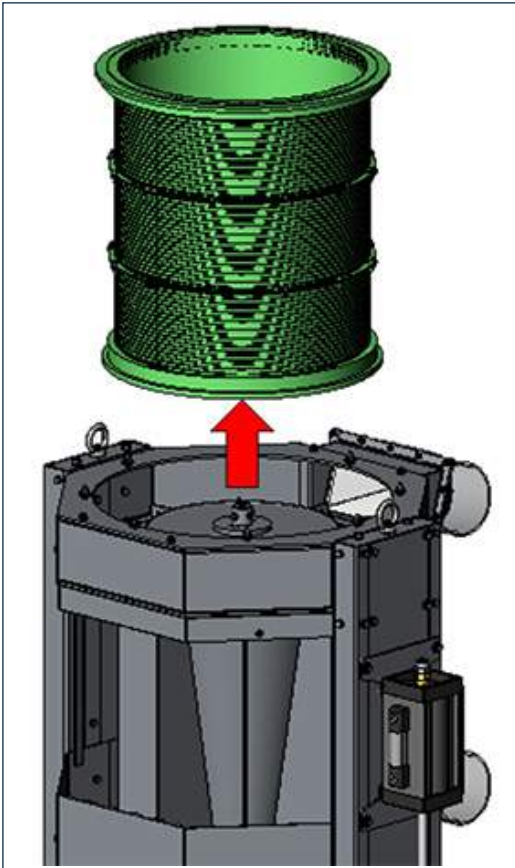
6) Unscrew the cover screws.



7) Remove the cover.

8.0 REPLACEMENT OF PARTS

SEP.SEPCOM_Micro-filter---M.A2.0722.EN Issue: A2

2

- 8) Remove the screen by pushing it toward the top. Use a pry bar if necessary.

Wash the screen with pressurized hot water.

If necessary, pick a new screen.

Install back the screen by following the steps previously indicate and restore the operation of the equipment.

8.6 Returning the equipment (the machine)

When returning the equipment (machine) use the original packaging if it has been preserved, otherwise fix the it on a pallet and cover it with nylon shrink-wrap, to protect it as best as possible from impact during transport. In any event, make sure there is no residue material inside the equipment (machine).

8.7 Dismantling and disposal

Dismantling of the equipment (machine) must be entrusted to personnel specialized in these activities and equipped with adequate skills.

Dismantle the components of the equipment (machine) concerned; if necessary contact the Manufacturer for further information.

The components dismantled have to be separated on the basis of the nature of the materials of which they consist, in compliance with the laws on the matter of “differential collection and disposal of wastes”.

With reference to the WEEE Directives, electrical and electronic components, marked with a special symbol, have to be disposed off in authorized collection centres meant for the purpose.

Unauthorized disposal of “Waste Electrical and Electronic Equipment” (WEEE) is punishable with fines governed by the laws concerning the matter.

9.0 INFORMATION REGARDING FAULTS

SEP.SEPCOM_Micro-filter---M.A2.0722.EN Issue: A2

2
9.1 Trouble-shooting

Minor problems can be solved without consulting a specialist.

The following Table contains a list of the most common problems, the possible causes and possible remedies.

For particularly difficult actions which are not mentioned in the Table, contact the Manufacturer's Customer Service Department.


Danger - Warning

Before carrying out any operation “set the equipment (machine) concerned in safety” (see “Glossary and terminology”), operate according to the indications on the “Operation and Maintenance Manual” and in accordance with and in compliance with the standards in force as regards health and safety.

FAULT	PROBABLE CAUSE	POSSIBLE REMEDY
The motor won't start.	1) Faulty connection.	1) Check the fuses, replace if damaged.
	2) Faulty motor or fault in the mains.	2) Repair or replace faulty part.
	3) If it is provided a generator.	3) Check the generator power.
	4) An inverter that blocks the starting torque.	4) Refer to the inverter manufacturer.
Motor starts but then it stops.	1) Direction of rotation incorrect.	1) Reverse polarity (see “Electrical connection”).
	2) Clogging.	2) Clean the microfilter (see “Cleaning the microfilter”).
	3) Motor burnt out.	3) Replace the motor.

9.2 Check-list in case of fault

If you have been unable to solve the problem on the equipment (machine) even after having carried out the operations suggested in paragraph "Trouble-shooting" please contact the plant technician/installer/or the Manufacturer.

If technical assistance is required, in addition to the equipment data, the plant technician/installer or Manufacturer will also need information concerning the plant in which the equipment (machine) is installed, its installation and its working, for better identification of the problem that has occurred.

Obviously many of the checking operations which are requested have already been performed in the various steps during installation, testing and start-up of the equipment (machine) concerned.



Danger - Warning

Before carrying out any operation "set the equipment (machine) concerned in safety" (see "Glossary and terminology"), operate according to the indications on the "Operation and Maintenance Manual" and in accordance with and in compliance with the standards in force as regards health and safety.

1) Information necessary

- a) Description of the problem
- b) Total working hours
- c) Running frequency (hours per day or month)
- d) Photograph of the microfilter and of the plate applied on the side member
- e) Picture of the plant and of all connecting pipes up to the collecting tanks / or similar lagoons.
- f) Video, if possible, that allows listening the noise of the microfilter while running and controlling the solid and liquid outlet.
- g) Motor absorption.

2) Checking the electrical parts

- a) Are voltage variations possible due to simultaneous start-up of various pieces of equipment?
- b) Is the plant equipped with a power generator?
- c) The thermal protection of the electric motor inside the panel has delayed action. Is its adjustment in line with the data on the motor rating plate?
- d) Check the power input of the motor without load, at breakaway current and when the impeller pump is operating at full speed.

3) Checking the microfilter

- a) Has the microfilter been assembled correctly?
- b) Has the microfilter been fixed correctly?
- c) Have the pipes been connected properly with no bottlenecks?

4) Checking the material to be handled

- a) Description of the process the material undergoes before reaching the separator
- b) Define the nature of the material.
- c) What is the percentage dry matter at inlet?
- d) Is there a system for mixing the material in the tank upstream the separator?

A1 Lubricants table for the impeller support unit

The lubricant brands are listed in the table in alphabetic order, with no reference to the product quality.

The list does not cover the entire range of lubricants. It is therefore possible to use other lubricants as long as they have the same characteristics.

LUBRICANT	BRAND	TYPE
Upper support unit grease	Castrol Longtime PD2	NLGI Grade 2
Lower support unit oil (ISO VG32)	BP ENERSINT	RC S32
	Petronas Compressor	A SYN PAO 32
	Petronas Compressor	A M4 32
	Mobil Rarus	SHC 1024

Indications on the automatic lubricator settings:

Fill the cartridge	Time to be set
60 ml	1 month
125 ml	3 months
250 ml	6 months

A2 List of maintenance tools

To improve the assembly and disassembly of machine components, we recommend the following tools:

- Phillips head screwdriver
- Spray containing denatured ethyl alcohol
- Clean cloth
- White grease
- Spanners 12, 13, 17