



KREMLIN REXSON



INSTRUCTION MANUAL
AGITATION UNIT ON COVER
CYCLIX

**for drum,
model 200 L / 52.8 US gal
107 073 xxxx**

**for drum from 20 to 40 L /
from 5.3 to 10.6 US gal
104 963 xxxx**

Manual : 574.031.112 - 0710

Date : 15/10/07 - Supersede: 6/09/06

Modif. + # 107 073 6900

IMPORTANT : Read and understand all instructions before storing, installing and operating concerned equipment (professional use only).

PICTURES AND DRAWINGS ARE NOT CONTRACTUAL. THE MATERIAL MAY BE CHANGED WITHOUT PRIOR NOTICE.

**KREMLIN REXSON – 150, avenue de Stalingrad
93 245 - STAINS CEDEX - FRANCE
Téléphone : 33 (0)1 49 40 25 25 - Fax : 33 (0)1 48 26 07 16**



**INSTRUCTION MANUAL
AGITATION UNIT ON COVER**

SUMMARY

1.	EC DECLARATION OF CONFORMITY	2
2.	WARRANTY	2
3.	SAFETY INSTRUCTIONS	3
4.	DESCRIPTION	4
5.	DIMENSIONS	5
6.	INSTALLATION	5
7.	CONNECTION OF THE SUBSETS	6
8.	ADJUSTMENT	7
9.	PREVENTIVE MAINTENANCE	8
10.	CURATIVE MAINTENANCE	8
11.	PART NUMBER OF THE UNITS	9
12.	SPARE PARTS ' LIST	9

ADDITIONAL DOCUMENTATIONS /

Manual

Pneumatic agitator

Doc. 574.024.110

Dear Customer,

You are the owner of our new equipment and we would like to take this opportunity to thank you.

To make sure your investment will provide full satisfaction, special care has been taken by KREMLIN REXSON during all designing and manufacturing processes.

To obtain the best result, safe and efficient operation of your equipment, we advise you to read and make yourself familiar with this instruction and service manual. Indeed, the non-compliance with instructions and precautions stated in this manual could reduce the equipment working life, result in operating trouble and create unsafe conditions.

1. EC DECLARATION OF CONFORMITY

The manufacturer : **KREMLIN REXSON** with assets of 6 720 000 euros

Head office : 150, avenue de Stalingrad - 93 245 - STAINS CEDEX - FRANCE

Tel. 33 (0)1 49 40 25 25 - Fax : 33 (0)1 48 26 07 16

Herewith declares that : Agitation assembly on cover, is in conformity with the provisions of :

EC - Machinery Directive (Directive 98/37/EEC) as amended and with national implementing legislation.

Ex - ATEX Directive (Directive 94/9/EEC) :  II 2 G (group II, class 2, gas).

Established in Stains, on March 1 st 2003,



D. TRAGUS
President

2. WARRANTY

We reserve the right to make changes; these changes may be carried out after the receipt of the order. No claim will be accepted as a consequence of any change carried out in the instruction manuals or in the selection guides.

Our equipment is checked and tested prior to shipment. In the case of a problem arising with the equipment, this must be in writing, within ten days from the delivery date.

KREMLIN REXSON warrants all equipment manufactured bearing its name, to be free from defect in material or workmanship for a period of 12 months (one shift per day or 1800 hours - 1 term reached) from the date of delivery. Work life is based on single shift working - 8 hours per day. Warranty claims for defective items will only be accepted in writing and will be verified and confirmed by us.

The warranty does not cover fair wear and tear, damage or wear caused by misuse, improper maintenance or non-observance of our recommendations.

KREMLIN REXSON will repair or replace parts (carriage paid to our plant and accepted as defective by us). We shall not be liable for any losses, resulting from a production breakdown. Upon request, we can carry out service work at your premises; all expenses (travelling and accommodation) for KREMLIN REXSON technicians will be chargeable.

In the event that it is found that equipment has been tampered with, this will invalidate the warranty. Equipment that is bought in will be subject to the suppliers' warranty

3. SAFETY INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS



CAUTION : The equipment can be dangerous if you do not use it according to the rules mentioned in this instruction manual. Read carefully all the instructions hereafter before operating your equipment.

Only trained operators can use the equipment. (To acquire an essential training, please contact the "KREMLIN REXSON University" training center - Stains).

The foreman must ensure that the operator has perfectly taken in the safety instructions of this equipment as well as the instructions in the manuals of the different parts and accessories.

Read carefully all instruction manuals, label markings before operating the equipment.

Incorrect use may result in injury. This equipment is for professional use only. It must be used only for what it has been designed for. Never modify the equipment. The parts and accessories supplied must be regularly inspected. Defective or worn parts must be replaced.

Never exceed the equipment components' maximum working pressure.

Comply with regulations concerning safety, fire risks, electricity in force in the country of final destination of the material. Use only products or solvent compatible with the parts in contact with the material (refer to data sheet of the material manufacturer).

FIRE - EXPLOSION - SPARKS - STATIC ELECTRICITY HAZARDS



A poor earth connection, inadequate ventilation, sparks or static electricity can cause an explosion or fire. To avoid these risks when using or servicing KREMLIN REXSON equipment, the following safety procedures must be followed :



- ensure a good earth connection and ground the parts to be handled i.e. solvents, materials, components and equipment,



- ensure adequate ventilation,



- keep working area clean and free from waste solvents, chemicals, or solid waste i.e. rags, paper and empty chemical drums,

- never use electrical switches / power if in an atmosphere of volatile solvent vapour,

- stop working immediately in case of electrical arcs,

- never store chemicals and solvents in the working area.

TOXIC PRODUCT HAZARDS

Toxic products or vapours can cause severe injury not only through contact with the body, but also if the products are ingested or inhaled. It is imperative :



- to know the material products and their risks,

- notified or hazardous materials must be stored in accordance with the regulations,



- the material must be used in an appropriate container, never place materials in a container where there is a risk of spillage or leakage,

- a procedure must be applied for the safe disposal of waste material. It must comply with all prevailing regulations and legislations of the country where the equipment is to be used,

- protective clothing should always be worn in compliance with the material manufacturers' recommendations,

- depending on the application and chemical safety instructions, safety glasses, gloves, foot wear, protective masks and possible breathing equipment should be worn to comply with the regulations

(Refer to chapter "Safety equipment" of KREMLIN selection guide).



CAUTION!

It is forbidden using any solvent or with halogenated hydrocarbon base and also products made with these solvents facing **aluminium** and **zinc**. The non-compliance with the instructions may cause explosion hazards causing serious or fatal injuries.

USED PRODUCTS

Considering the variety of products that may be used by the users and the impossibility to check off all chemical data, of possible reactions of chemicals to each other and their long term evolution, KREMLIN REXSON can not be considered as liable for :

- the bad compatibility of wetted parts,
- risks for staff and surroundings,
- for worn or out of order parts, for wrong working of equipments or units, as well as for the qualities of final product.

The user must know and prevent the possible risks as toxic vapours, fires or explosions due to used products. He shall determine the risks of immediate reactions or pursuant to repeated exposures of the staff,

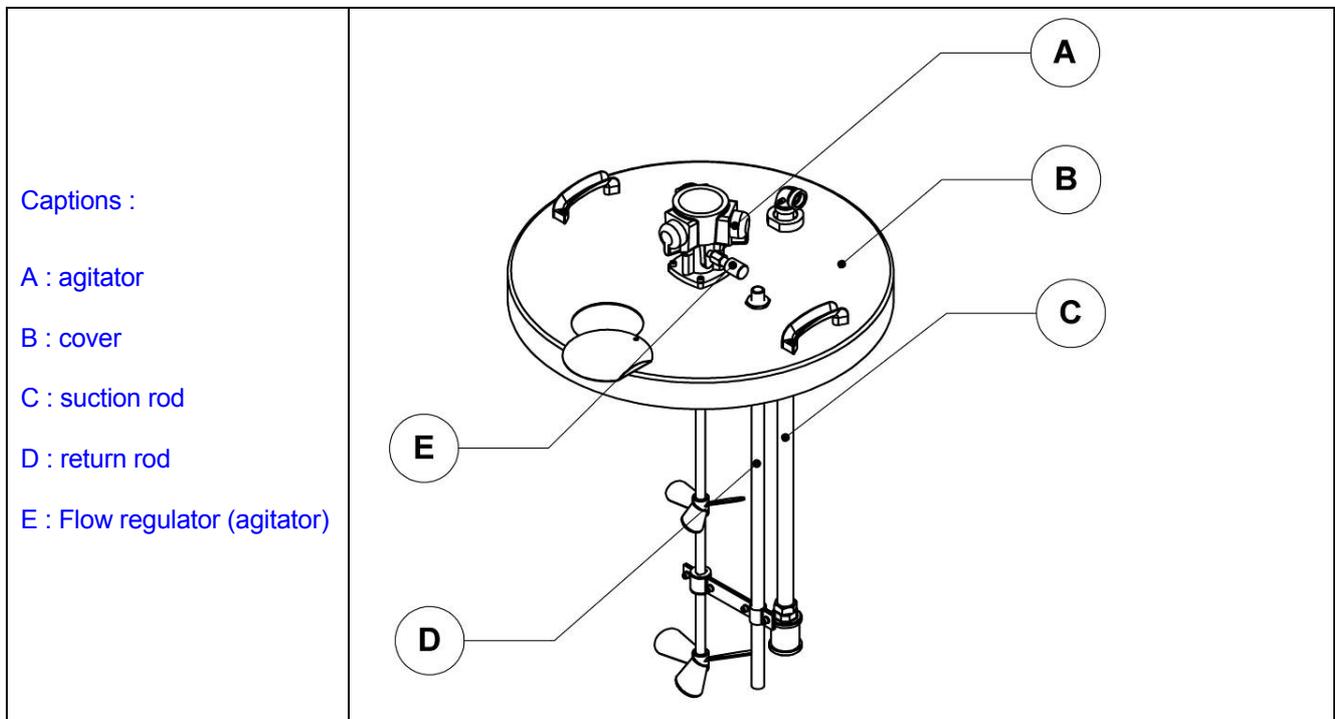
KREMLIN REXSON shall not be liable for psychic injuries, direct or indirect material damages further to the use of chemicals.

4. DESCRIPTION

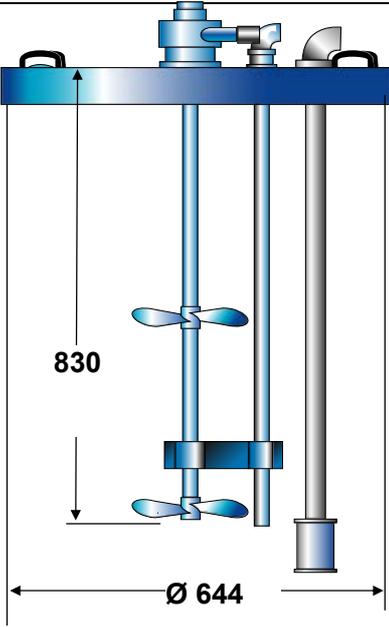
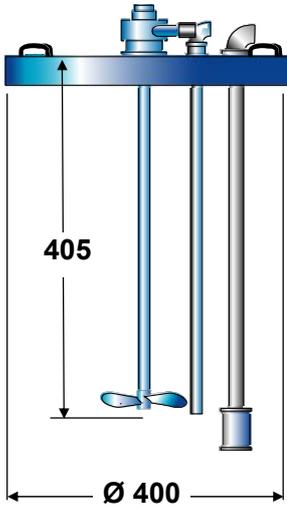
These equipments are designed to be installed on drums, model 200 L / 52.8 US gal or on drums from 20 to 40 L / 5.3 to 10.6 US gal depending upon the versions. They are designed to ensure the homogenization and to bring liquids or semi liquids products the drums contain.

The unit is manipulated by means of the handles on the top of the cover.

Each assembly consists of a cover fitted with an agitator, a suction rod and a return rod.



5. DIMENSIONS

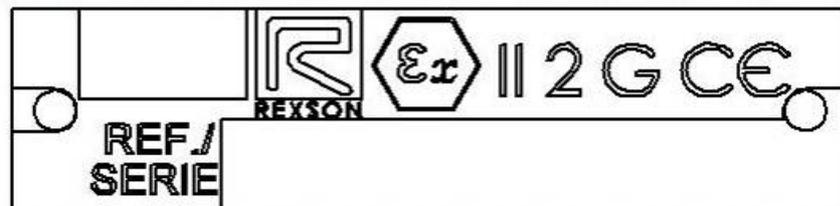
Agitation unit from drum, model 200 L / 52.8 US gal	Agitation unit from drum from 20 to 40 L / from 5.3 to 10.6 US gal
	
Weight : 15.5 kg / 34.1 lbs	Weight : 7 kg / 15.4 lbs

6. INSTALLATION

The agitation units are designed to be installed in a spray booth.

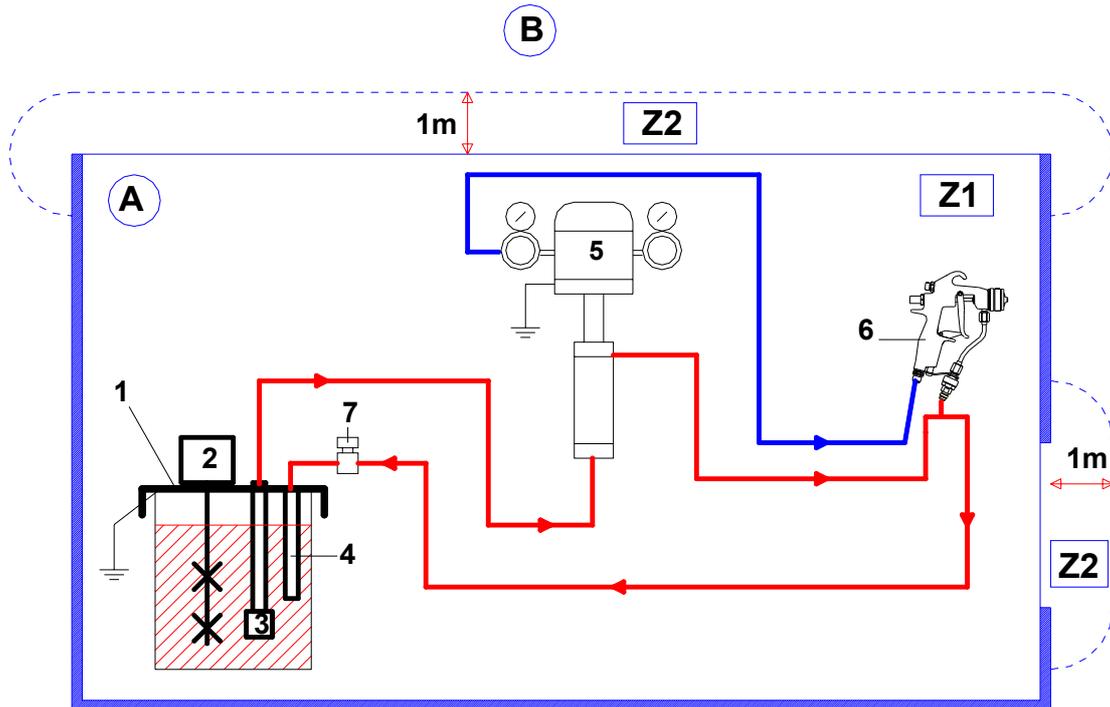
■ DESCRIPTION OF THE LABEL MARKING

Marking according to the ATEX directive



REXSON	Name of the manufacturer
	II : group II 2 : class 2 Surface equipment meant to an area where explosive atmospheres due to gas, vapours, mists are liable to appear from time to time in usual operating. G : gas
CE	European conformity
REF.	Part number of the unit
Serie / Serial	Number given by KREMLIN REXSON

■ INSTALLATION DIAGRAM



A	Explosive area area 1 (Z1) or area 2 (Z2) : spray booth
B	Non explosive area
1	Cover with earth cable
2	Agitator

3	Suction rod
4	Return rod
5	Pump
6	Gun
7	Circulating valve or back pressure regulator

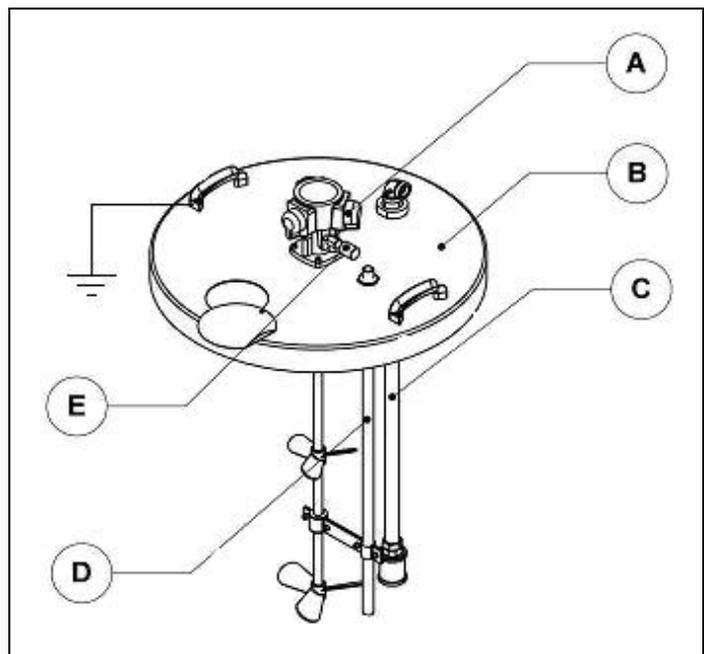
7. CONNECTION OF THE SUBSETS

■ ASSEMBLY

- Remove the propellers of the agitator (A)
- Place the motor of the agitator in the centre of the cover (B) and fix it by means of the screws, washers and nuts.
- Place the suction rod (C)
- Install the return rod (D).
- Mount the upper propeller.
- Install the flange with its ring between the agitator rod and the return rod.
- Mount the lower propeller.



Keep a sufficient gap between the bottom of the drum and the blades of the agitator to avoid frictions and sparks.



■ GROUNDING



The cover is fitted with an earth cable. This cable is mounted at the level of one of the cover handles. Connect the other end to a safe earth.

The agitator is grounded by means of the cover.

■ CONNECTION TO THE COMPRESSED AIR SUPPLY



To ensure a correct operating and an optimum working life of the agitator, **the supply air must be filtered and lubricated.**

Install a filter and a lubricator on the agitator air supply.

Air supplies the agitator via a hose fitted with a quick release fitting. To shut off the agitator air supply, disconnect the hose.

■ FLUID CONNECTION

Suction rod	Elbow, model F 3/4 "
Return rod	Male 1/2 "

■ SPECIFIC INSTRUCTIONS



Before operating the equipment, please ensure that the operators have been trained to use the equipment correctly.

The foreman must ensure that the operators have perfectly taken in the safety instructions of this equipment as well as the instructions in the manuals of the different parts and accessories (refer to agitator instruction manual).

The operator must wear the appropriate clothing (protective masks, gloves, glasses...) depending on the use of the equipment.

Keep away from moving parts. Do not stay in front of the exhaust.

Do not supply the equipment with air pressures up to the ones recommended. Damages can occur if you use the equipment with speeds up to the ones recommended.

The operator must check that the equipment is used in a well ventilated area.

Nota : You must lubricate the motor of the agitator. Dirts due to oil can be present on the cover. To avoid them, mount a grease recovery assembly to the motor exhaust (see option).

8. ADJUSTMENT

Before operating the equipment, check that the agitator is correctly grounded on the cover and that ground is carried out.



A lubrication of the agitator is necessary.

Supply air must be filtered and lubricated.

The maximum air supply pressure is 6 bar /87 psi.

Place the cover and the agitator on the drum.

Connect the air hose on the motor of the agitator.

Unscrew slightly the knob of the agitator air flow regulator to make the motor operate **very slowly** for a while, then make it work normally.

NOTA : Do not operate the agitator to a too important speed. It can lead to a deterioration of the paint, vibrations and an early wear of the parts. The agitator is for the homogenization of the paint.



Keep away hands and fingers from the blades of the agitator. Serious injuries can occur.

■ CHANGING THE DRUM

Disconnect the air hose that supplies the motor of the agitator.

Lift the cover to remove the drum.

Take off the empty drum.

Mount the new drum.

Reinstall the cover fitted with the agitator on the new drum.

Check that the earth cable is still connected to a safe earth.

Connect the air hose to the motor of the agitator : it starts up.

Nota : Do not change the adjustment of the flow regulator mounted at the agitator air inlet because it will throw out of order the rotative speed of the agitator.

■ FILLING OF THE DRUM, MODEL 200 L / 52.8 US gal

Instead of changing the drum (only for drum, model 200 L / 52.8 US gal), you can fill it by means of a filling funnel installed on the hatch (refer to accessories).

9. PREVENTIVE MAINTENANCE



To prevent from injuries, material injections, injuries due to moving parts or sparks during the stopping of the system, the assembly, the cleaning or changing of a component, you must **shut off the air inlet** of the agitator before intervening

Refer to instruction manual of each component (see page 1).

10. CURATIVE MAINTENANCE



Before any intervention on the equipment, shut off the air supply of the agitator and follow the general safety instructions.

Refer to instruction manual of each component (see page 1).

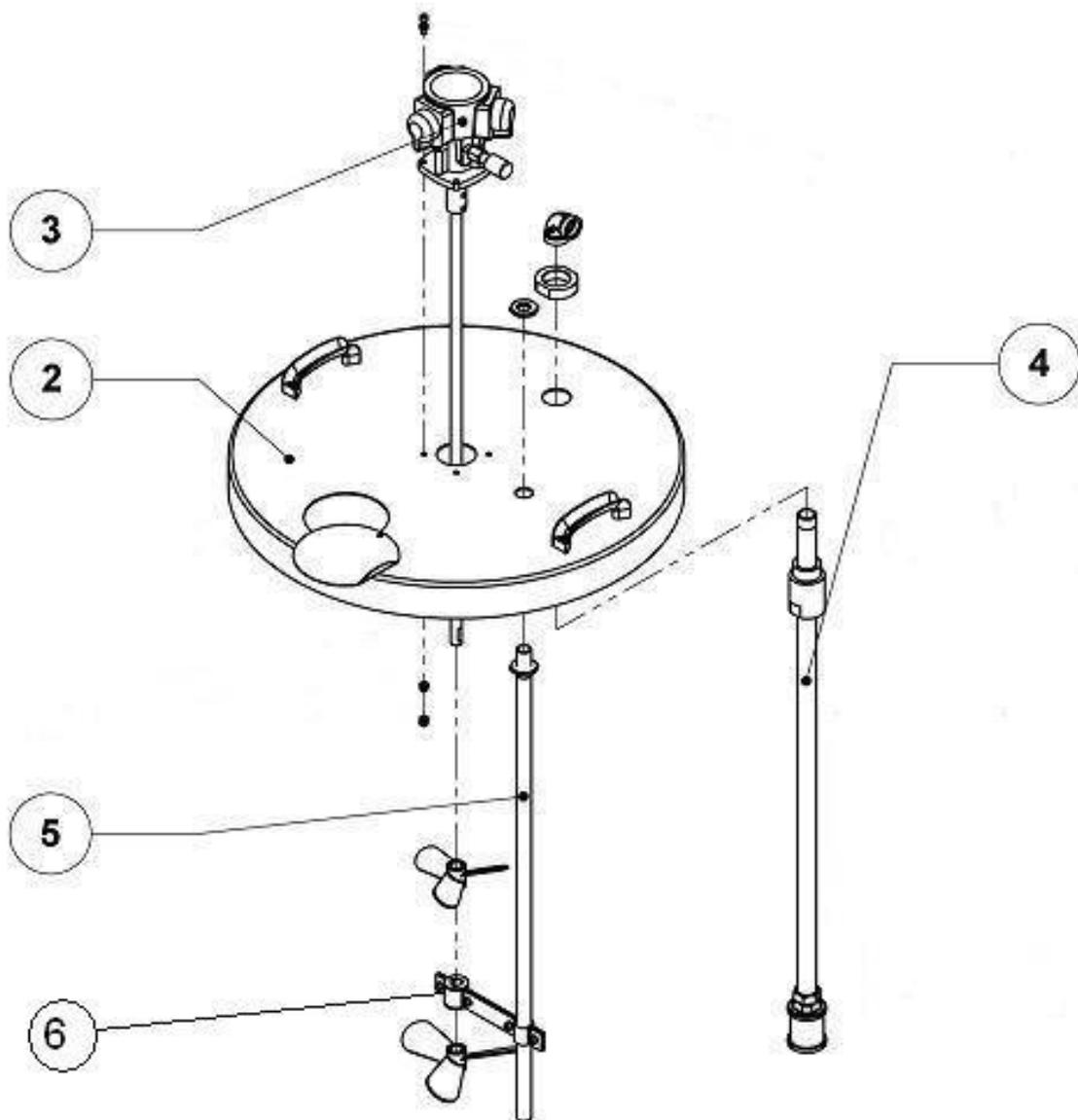
■ DISASSEMBLY

Carry out the disassembly in the reverse order of the assembly sequence (refer to § 7)

11. PART NUMBER OF THE UNITS

Agitation unit	#	Agitator	
		Motor version	Propeller version
For drum, model 200 L / 52.8 US gal	107073 23 00	M 1	2 "navy" propellers
	107073 25 00	M 3	2 "navy"
	107073 65 00	M 3	2 sabres propellers
	107073 67 00	M 5	2 sabres propellers
	107073 69 00	M 3R	2 sabres propellers
For drum from 20 to 40 L / 5.3 to 10.6 US gal	104963 13 00	M 1	1 "navy" propeller

12. SPARE PARTS ' LIST



AGITATION UNIT ON COVER for drum, model 200 L / 52.8 US gal : # 107 073 xx xx

Ind.	Description	Qty	Material	107 073 23 00	107 073 25 00	107 073 65 00
2	Cover	1	St. steel	N S S		
3	Agitator (refer to instruction manual 574.024.112)	1	-	107 059 0703	107 047 0703	107 047 0705
4	Suction rod	1	St. steel	107127 01 01		
-	▪ Strainer	1	PA / St. steel	211 034		
5	Return rod	1	St. steel	106 595 01 00		
6	Agitator support	1	St. steel	054.260.599		
-	Earth cable	1	-	901.180.024		

Ind.	Description	Qty	Material	107 073 67 00	107 073 69 00
2	Cover	1	St. steel	N S S	
3	Agitator (refer to instruction manual 574.024.112)	1	-	107 048 0705	107 128 0705
4	Suction rod	1	St. steel	107127 01 01	
-	▪ Strainer	1	PA / St. steel	211 034	
5	Return rod	1	St. steel	106 595 01 00	
6	Agitator support	1	St. steel	054.260.599	
-	Earth cable	1	-	901.180.024	

AGITATION UNIT ON COVER for drum from 20 to 40 L / 5.3 to 10.6 US gal : # 104 963 xx xx

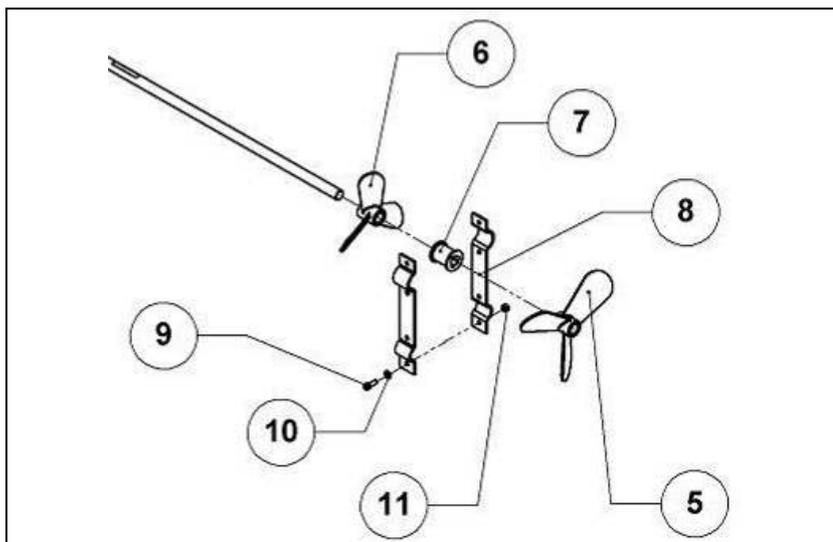
Ind.	Description	Qty	Material	104 963 13 00
2	Cover	1	St. steel	N S S
3	Agitator (refer to instruction manual 574.024.112)	1	-	107 059 0101
4	Suction rod	1	St. steel	107127 0201
-	▪ Strainer	1	PA / St. steel	211 034
5	Return rod	1	St. steel	106 595 0200
-	Earth cable	1	-	901.180.024

COVERS WITH HATCH

Cover	#
For drum, model 200 L / 52.8 US gal (Ø 644 mm / 25.3")	106996 01 00
for drum from 20 to 40 L / 5.3 to 10.6 US gal (Ø 400 mm / 15.7")	106985 01 00

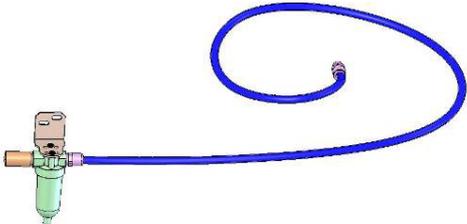
N S S : Denotes parts are not serviceable separately.

Agitator support
 (for unit,
 model 200 L / 52.8 US gal)
 # 054.260.599



Ind.	Description	Qty	Material	#
7	Ring	1	PE	210930
8	Flange	2	St.steel	054.260.598
9	Screw, model CHC M 6x16	4	St.steel	88512
10	Washer, model M 6	4	St.steel	88548
11	Nut, model HM 6	4	St.steel	954.010.016

ACCESSORIES

Air lubricator	Air filter	Filling funnel	Exhaust assembly with oil recovery (hose length : 1m / 39.4")
			
1/4 " → # 91554 3/4 " → # 91535	1/4 " → # 91553 3/4 " → # 91534	# 044.665.007	# 107159