



AXEL FOAMER

INSTRUCTION MANUAL
BETRIEBSANLEITUNG

GB

DE

FOAMER

MANUELLES
DRUCKFOAMER


TECHNICAL DATA / TECHNISCHE DATEN			
MODEL / MODELL	Axel foamer 2000	Axel foamer 3000	Axel acid 2000
Product symbol / Produktsymbol	S121.103	S122.103	S124.102
Net weight / Nettogewicht	0,64 kg	0,65 kg	0,64 kg
Working capacity / Arbeitskapazität	2000 ml	3000 ml	2000 ml
Max. working pressure / Max. Arbeitsdruck	0,4 Mpa (4 bar) (60 psi)		
Pressure protection / Druckschutz	Safety valve		
Type of sealing / Dichtungsart	EPDM/FPM		
Material of the tank / Werkstoff des Behälters	Polyethylene / Polyethylen		

SAFETY SIGNS / SICHERHEITSKENNZEICHEN		
SIGN ZEICHEN	MEANING / BEDEUTUNG	PLACE STELLE
1.	Name plate / Typenschild	On the tank Am Behälter
2.	General warning sign, warning, safety risk / Allgemeines Warnzeichen, Warnung, Gefahr	On the tank Am Behälter
3.	Read the instruction manual before starting work / Vor Beginn der Arbeit mit dem Foamer lesen Sie diese Betriebsanleitung genau durch.	On the tank Am Behälter
4.	Warning against danger of poisoning by toxic substances / Warnung vor Vergiftung durch toxische Stoffe.	On the tank Am Behälter

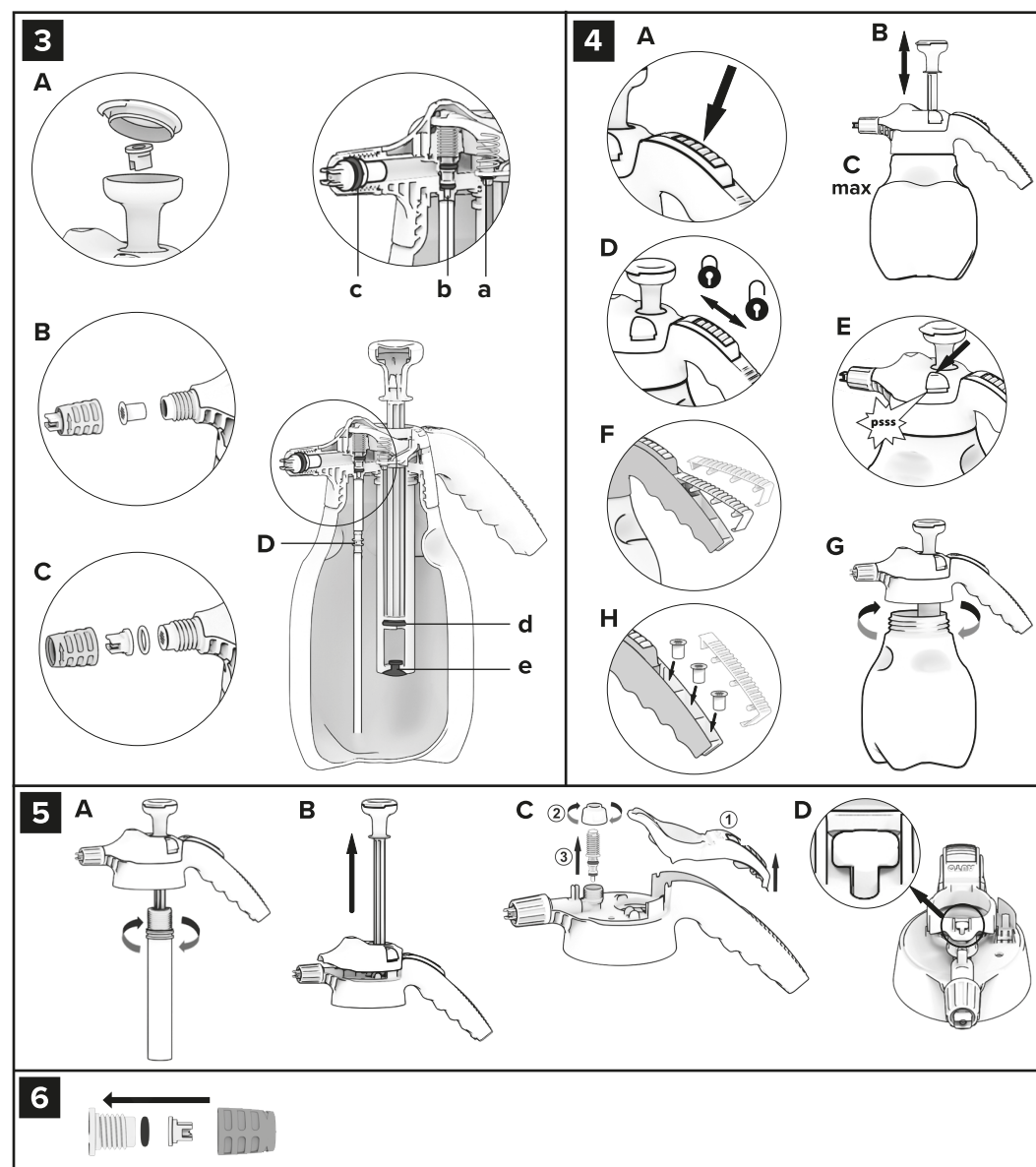
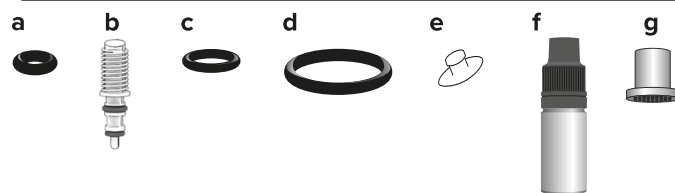
EU DECLARATION OF CONFORMITY 12/M/2018/ EU-KONFORMITÄTSERKLÄRUNG 12/M/2018

Marolex declares that the product meets the requirements of the DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery.

Die Firma Marolex erklärt hiermit, dass das Produkt den Anforderungen der Richtlinie des EUROPÄISCHEN PARLAMENTES UND RATES 2006/42/EG vom 17. Mai 2006 über Maschinen entspricht.



2 REPAIR SET / REPARATURSET A028.103 (Z08eA)/A032.102 (Z08eV)



GB INSTRUCTION MANUAL

Foamer
axel alka 2000/3000
axel acid 2000

1. USE AND INTENDED PURPOSE

The **axel** foamer is intended for application of alkaline and neutral foam-making liquids. It is used in chemical industries, workshops, car washes and detailing companies as well as in households.

NOTE!!! It is forbidden to use hydrochloric acid, sodium hypochlorite, agents containing solvents, oil derivatives, dense and viscous substances and any liquid having a temperature of over 40°C. In case of doubt as to application of any substance or product please contact the technical department: serwis@marolex.pl. Note! The axel foamer is a device intended for application of actively foaming agents and for aeration of surfactants, therefore, it does not perform the function of the sprayer.

Failure to comply with the rules of this instruction manual may result in damage to the foamer or permanent health impairment.

The **axel** acid foamer is intended for the application of acid inorganic, foaming agents. It is used in chemical industry, workshops, car washes and detailing companies and households.

ATTENTION !!! It is forbidden to use: bases, including sodium hydroxide, potassium hydroxide; hydrochloric acid; short-chain organic acid compounds, including acetic acid, alcohols, ethers, aldehydes, and ketones and chlorine disinfectants including sodium hypochlorite ; organic solvents including ethyl acetate and other flammable liquids; liquids with a temperature above 40° Viscous and thick liquids and sediment-free solutions.

ATTENTION !!! It is allowed to use hydrofluoric and nitric acids and other inorganic acids in a concentration not exceeding 10%. However, sulfuric and phosphoric acid at a concentration not exceeding 30%.

2. axel FOAMER EQUIPMENT

Complete foamer with flat stream nozzle MF4.0-45° 1,3l/min Fig. 1, instruction manual, set of 3 foaming inserts, additional flat stream nozzle MF3.0-80° 1,1l/min.

Repair set fig. 2 is sold separately (spare parts)

Marolex reserves the right to make changes in the axel sprayer equipment.

3. PREPARATION AND axel OF THE FOAMER

1. Read this instruction manual before starting work with the axel foamer.
2. The axel foamer is complete and prepared for work, however, for safety purposes before starting work, check the operation of the safety valve and the tightness of the foamer with the use of clean water. Before unscrewing the head always check whether the tank is not under pressure pressing the button of the safety valve Fig. 4E until the released air sound is not longer audible.

Then, unscrew the head Fig. 4G, pour water, screw the head and, with several movements, pump the foamer by means of the piston rod Fig. 4B. Check whether the device is tight, and then, press the button of the safety valve Fig. 4E. When the button of the safety valve is pressed the clear sound of air released under pressure is audible which means proper function of the safety valve. After checking: unscrew the head Fig. 4G, making sure that there is no pressure in the tank, pour out water and screw the head.

3. In order to start work with the Axle foamer: remove pressure from the tank by means of the safety valve Fig. 4E, unscrew the head Fig. 4G, pour the solution prepared earlier according to the recommendations specified on the package of foam-making liquid, not exceeding the level indicated on the scale Fig. 4C. Screw the head Fig. 4G and pump the foamer Fig. 4B, until the safety valve is open. After pumping: direct the foamer towards the place of application and, pressing the button Fig. 4A, start work. The foamer can work continuously by shifting the lock of the button, for this purpose: press the button and shift the lock of the button forward Fig. 4D. In order to release the lock: press the button once again and shift the lock back. **In case of excessive pumping the safety valve opens automatically, at the moment, a slight amount of foam together with air can get out of the valve, this is a normal phenomenon and does not result from damage to the foamer.**

After work: remove pressure from the tank by pressing the button of the safety valve Fig. 4E, rinse also the foamer with clean water in order to protect the foaming inserts against gluing and loss of flowing. The clogged insert prevents the proper operation of the foamer.

The set includes an additional flat stream nozzle with a larger angle which can be replaced to apply foam to larger areas. In order to replace it: unscrew the nut with the nozzle, take the nozzle with the o-ring out, then, insert the nozzle and the o-ring, and screw the nut Fig. 3C.

The set includes also replacement foaming inserts which make it possible to obtain foam of different density. In order to replace them: unscrew the nut with the nozzle, take the foaming insert out Fig. 3B then, insert the selected foaming insert and screw the nut of the nozzle. The replacement foaming inserts after removal from the box can be safely and comfortably stored in the handle of the head under the cap Fig. 4H. For this purpose: remove the cap Fig. 4F, place the inserts in the handle and put the cap Fig. 4H.

The colours of the inserts correspond with the different foam density: white - watery foam, light blue - normal foam, dark blue - dense foam.

4. NOTES ON WORK SAFETY

- Children, pregnant women, ill persons taking medication, persons after drinking alcohol and persons using substances limiting concentration are not allowed to work with the foamer.
- During the first start-up, check the tightness of the foamer with the use of clean water.
- While working with chemical agents (also when preparing preparations and destroying packages), it is necessary to use special protective clothing: rubber footwear, gloves, coat, cap, safety goggles, mask or half-mask.**
- Do not start working with chemical agents on empty stomach; eating, drinking and smoking is forbidden during work. Drinking alcohol the day before work and after work is not allowed as well.
- Do not remove liquid residues to open waters, sewages or biological wastewater treatment plants. These notes apply also to the liquid used to rinse the tank and other subassemblies of the foamer.
- Hand over the worn foamer to the local chemical waste disposal agency.
- A person working with a foamer should absolutely follow the recommendations included in the packages of chemical agents. In case of poisoning contact your doctor.
- It is unacceptable to work with an inoperative foamer, non-functioning safety valve or any lack of tightness. After pumping the tank must not be exposed to hitting.
- All service activities should be carried out after decompression of foamer.
- Wash the foamer carefully after each use, rinsing it with water several times and before any service activities.
- The use of the foamer for purposes other than specified in the instruction manual is forbidden.
- It is not allowed to store the foamer filled with liquid and under pressure.
- The pump located in the tank is the only device used to generate the pressure during work. It is forbidden to use any other devices for this purpose!**
- It is not allowed to use: liquids having a temperature of over 40°C, flammable or explosive substances, e.g. petrol, solvents etc.
- Unauthorised modifications introduced to the foamer and its use against the intended purpose can result in poisoning of people and animals, environmental pollution, damage to the foamer or serious accidents.
- After work: change the clothes (clean the protective clothing), wash the hands, face, rinse the mouth and throat, clean the nose.
- The user is only responsible for damages resulting from the failure to follow the rules included in this instruction manual.
- It is not allowed to modify, to lock the safety valve as this can cause damage to the foamer that can result in permanent health impairment.
- Before work, always check the function of the safety valve. For this purpose: pump the foamer and by pressing the button Fig. 4E. The sound of air released under pressure should be audible when the holder of the valve is lifted up.
- It is not allowed to direct the lance of the foamer and to spray the liquid towards the face.
- When the foamer is used or stored, protect it against access of unauthorised persons, including, in particular, children.
- In case other substances are used, make sure that they can be used in the foamer and that they are not harmful to the foamer, people and environment.

5. WARRANTY CONDITIONS AND REPAIRS

- The warranty period is 60 months for the tank and 24 months for the other elements of the foamer. The warranty period starts from the date of purchase.
- A defective part or the foamer reported for warranty repair should be delivered to the point of sale or sent to Marolex. In case a part or subassembly is damaged please send only this damaged part or subassembly.
- Foamers, dirty or contaminated with chemical agents, delivered under complaint, will not be repaired. They should earlier carefully emptied, rinsed and cleaned!**
- The repairs are performed upon presentation of a valid warranty card or proof of purchase. The guarantor ensure good quality and efficient function of the product when used as intended, under operating conditions specified in the instruction manual.
- The repairs on user's own should be performed only with the use of Marolex original parts.
- When the defect of the good is detected during the warranty period, the guarantor is obliged to repair the defect free of charge within 14 working days.
- The number of repairs after performance of which the seller cannot refuse to replace the good with the new one (if there are still defects in it) is 3.
- The activities mentioned in the instruction manual as the activities belonging to the normal operational service by the holder of the warranty are not considered as warranty repair.
- The manufacturer will refuse to honour a warranty claim if the pressure adjustment is changed, the foamer is improperly stored or used.
- The company is not responsible for mechanical damage caused by the user. The damaged parts can be replaced by the company in return for payment.
- Please perform warranty repairs in an authorised service point or directly at Marolex.
- The warranty for the sold consumer good shall not exclude, limit or suspend the buyer's rights resulting from the lack of conformity of the good with the contract.

6. axel FOAMER STORAGE AND MAINTENANCE

- The axel foamer should be stored not in sunlight, at a temperature of over +4°C.
- Do not store the foamer with the pressed button of the lock Fig. 4D, this can result in the malfunction of the foamer.
- After work: disassemble the foamer, thoroughly wash and submit it to maintenance (necessarily thoroughly rinse the foaming insert).**
- In order to perform maintenance: check whether the foamer is not under pressure Fig. 4E. If it is, remove pressure from the tank by means of the safety valve, by pressing

