



# ECOLAB MA S-version Foamatic Mainstation User Manual

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**ECOLAB MA S-version Foamatic Mainstation**



The Foamatic unit is used for automatic cleaning via stationary pipe connections in e.g. production areas, production machinery or difficult-to-get-at places. The unit is used for laying out of spray or foam detergents and disinfectants as well as pressure water for rinsing. The time lag and the media of the activity in question are controlled by the built-in controller and the internal valves. Combined with the externally placed area valves, a precise and uniform dosing is achieved. In addition to automatic cleaning assignments, the Foamatic is available in a design with one or two pneumatic blocks for manual cleaning. One block makes it possible for the user to work with one manual outlet when laying out foam detergent and when rinsing with pressure water. The second block makes it possible to lay out spray or foam disinfection. A standard Foamatic unit is available with three different injector sizes, producing 150, 300 and 450 L foam per minute respectively, using approx. 7 bar air pressure. However, this requires a sufficiently large air volume, 200 - 450 l/min. Furthermore the unit is delivered with one, two or three sections. Each section makes up one type of detergent or disinfection for spray or foam lay out. All units are delivered with one valve for water/rinsing.

#### **Foamatic model program**

Description	Function
Foamatic Main station S1 150	One section with 150 liter injector
Foamatic Main station S1 300	One section with 300 liter injector
Foamatic Main station S1 450	One section with 450 liter injector
Foamatic Main station S2 150	Two sections with 150 liter injector
Foamatic Main station S2 300	Two sections with 300 liter injector
Foamatic Main station S2 450	Two sections with 450 liter injector
Foamatic Main station S3 150	Three sections with 150 liter injector
Foamatic Main station S3 300	Three sections with 300 liter injector
Foamatic Main station S3 450	Three sections with 450 liter injector

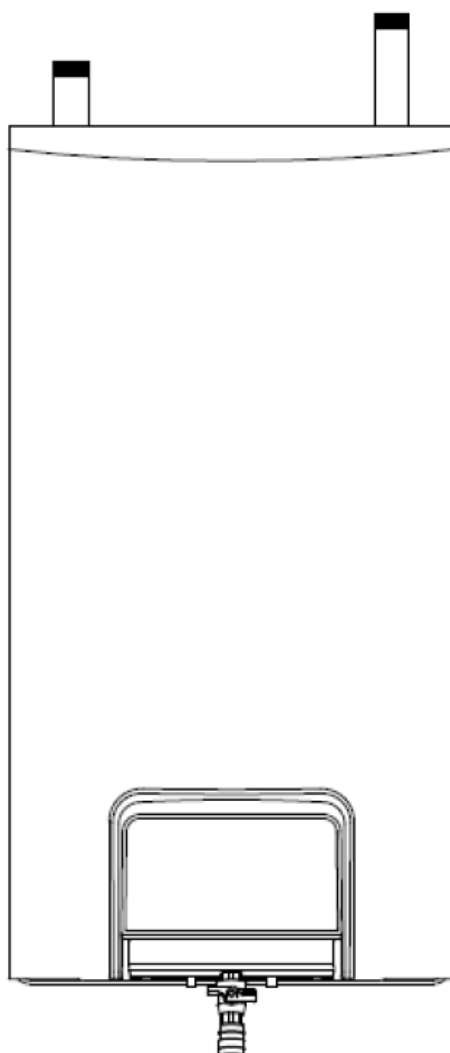
For all versions you may choose one, two or no manual block.

### Chemicals

This unit is prepared for Eco labs chemical product palette. The chemical is supplied from separate containers.

For this purpose a User Pack, mounted directly below the cabinet, is available.

The Foamatic unit is mainly made of stainless steel.

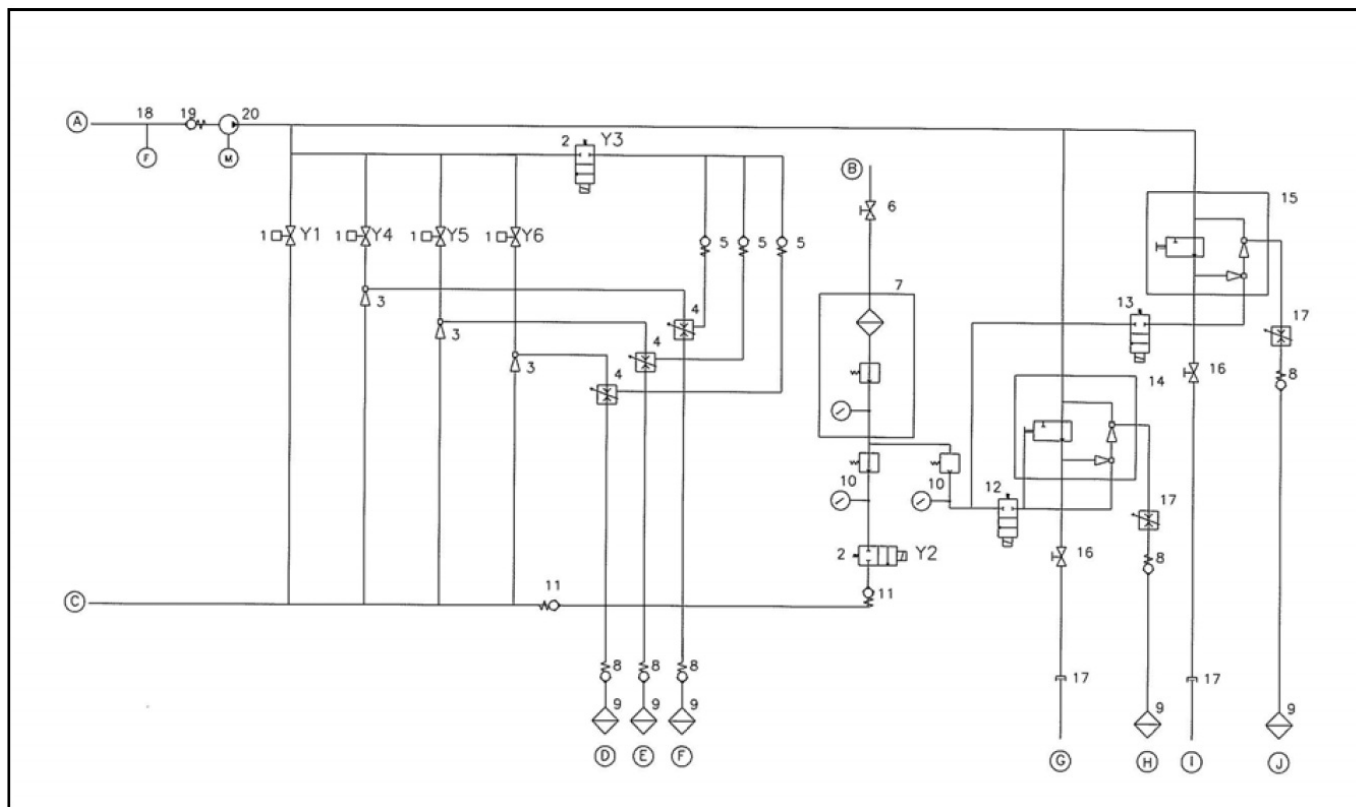


Flow Chart

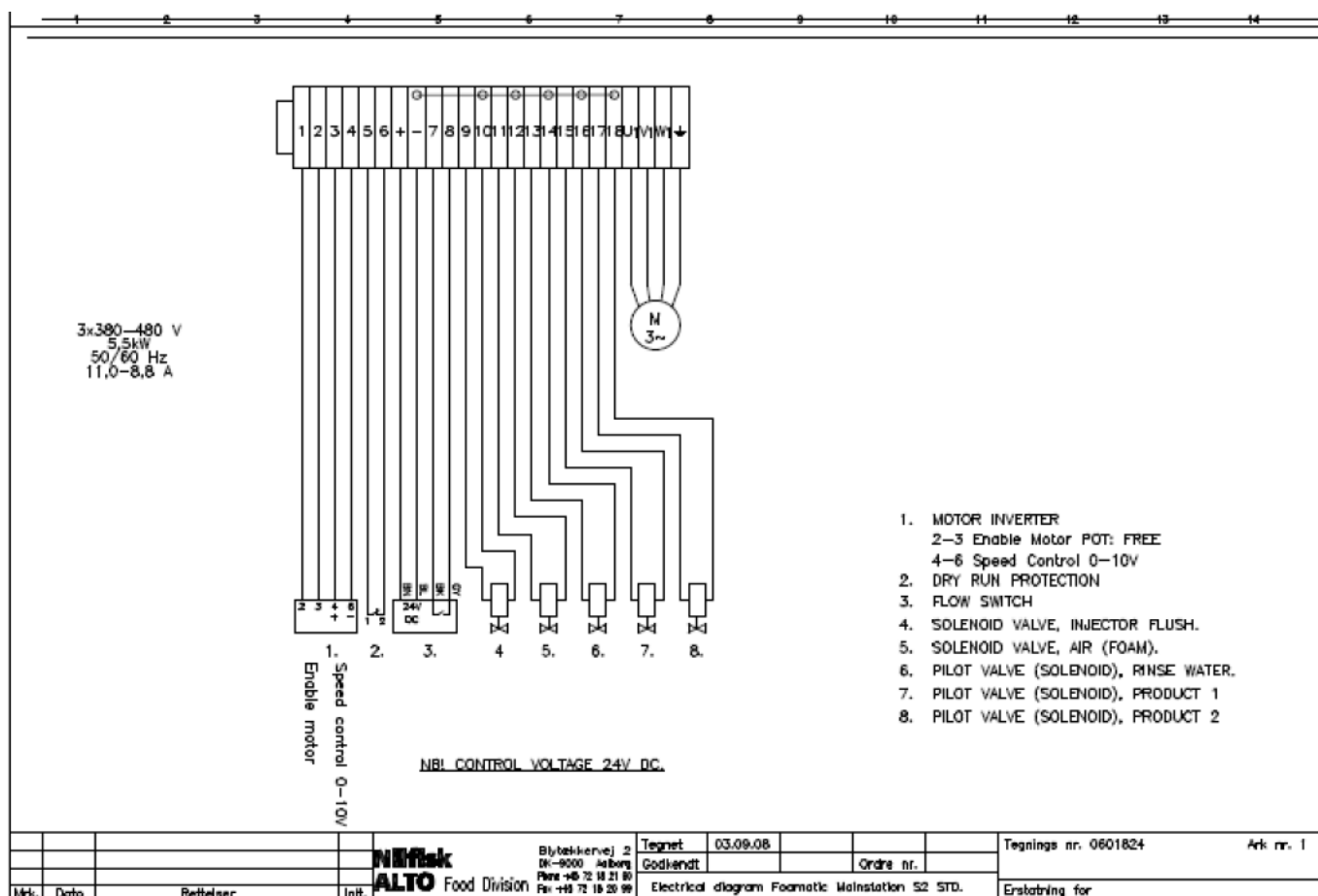
Below flow chart illustrates a model with three sections for detergents and two manual blocks.

- A Water inlet
- B Air inlet
- C Outlet
- D Detergent 1
- E Detergent 2
- F Detergent 3
- G Manual outlet
- H Detergent
- I Manual outlet
- J Detergent

1. Valve with actuator (Y1,Y4,Y5,Y6)
2. Solenoid valve (Y2,Y3)
3. Injector
4. Dosing valve
5. Non-return valve for water
6. Ball valve
7. Air regulator / filter / manometer
8. Non-return valve for detergent
9. Filter
10. Air regulator / manometer
11. Non-return valve for air
12. Manual 5/2-ways valve
13. Manual 3/2-ways valve
14. Pneumatic rinse/foam
15. Pneumatic disinfection
16. Ball valve
17. Quick coupling for hose



El diagram S2



## Maintenance

in general the Foamatic unit is maintenance free, as it consists of only a few moving parts. However, to ensure optimum operation it is very important to maintain both pump and compressor.

Always make sure that no valves, pipes or hose connections are leaking. In order to achieve optimum suction from the containers, please make sure that all clamps are correctly mounted and secured. Last but not least check filters in the end of the suction hoses. In order to keep a high level of hygiene the Foamatic cabinet should be cleaned with clean water both inside and outside. If the unit is very filthy we recommend using a mild detergent. For further information, please con-tact your Ecolab service department. The outer side of the cabinet can be rinsed with clean water. In order to avoid damages to the controller and other electric parts, we recommend using a cloth or a sponge to clean the inside of the cabinet. Cleaning with running water inside the cabinet should only be done in the lower part of the cabinet.

## **Use**

Always install the Foamatic unit in frost-free rooms only. The unit is delivered complete and ready for mounting on a wall or a suitable rack. The unit is mounted on the enclosed wall bracket according to description in the installation guide. It is very important that all pipe connections are thoroughly rinsed before installation. It is very important to use correct nozzle sizes where foam, disinfection or rinsing is carried out. E.g. the foam volume produced by the injectors must comply with the nozzle volume. If the injectors produce 150 l/min, and three valves for one zone are used, the amount of litres on the three valves must also be approx 150 l. If this is not observed, the quality of the foam will not be satisfactory. – For further information do not hesitate to contact Eco labs service department.

## **Service**

Only authorised and qualified personnel is allowed to carry out service on the unit. Only carry out service when the Foamatic unit is disconnected and depressurised.

1. Disconnect the power supply
2. Shut of the water supply
3. In order to depressurise the outlet side - open an external valve.

The unit is built in sections, which makes it possible to do service on a separate section. However, the Foamatic unit is not operational without this section. One section for water and one section for each detergent.

## **Components**

### **Master controller**

Maintenance free. In case of defects: please contact service technician.

### **ACC-01**

Maintenance free. In case of defects: exchange unit.

### **Non-return valve, water**

Maintenance free. I case of defects, exchange non-return valve.

### **Non-return valve, detergents**

Maintenance free. In case of defects, exchange non-return valve.

### **Non-return valve, air**

Maintenance free In case of defects, exchange non-return valve.

## **Trouble shooting**

### **The unit does not start up**

1	Is voltage available?	Secure voltage supply to the unit.
2	Is pressure water available?	Check the booster unit. Is the main supply open?
3	Defect fuse?	Exchange the fuse.
4	No connection between controller and control panel?	Check cable connection between controller and control panel.
5		Contact service technician.

#### Unsatisfying foam quality

1	Unsuitable detergent?	Change to suitable detergent.
2	Concentration of detergent too low?	Adjust the concentration on the dosing valve.
3	Is the air pressure too high or low?	Adjust the air pressure on the regulator.
4		Exchange or clean nozzles in the zone.
5	Is the suction filter clogged up?	Clean filter
6	Is the volume of water and pressure in the unit sufficient?	Secure correct water supply and water pressure.
7	Is the injector clogged up?	Disassemble injector and clean nozzle.
8		Contact service technician.

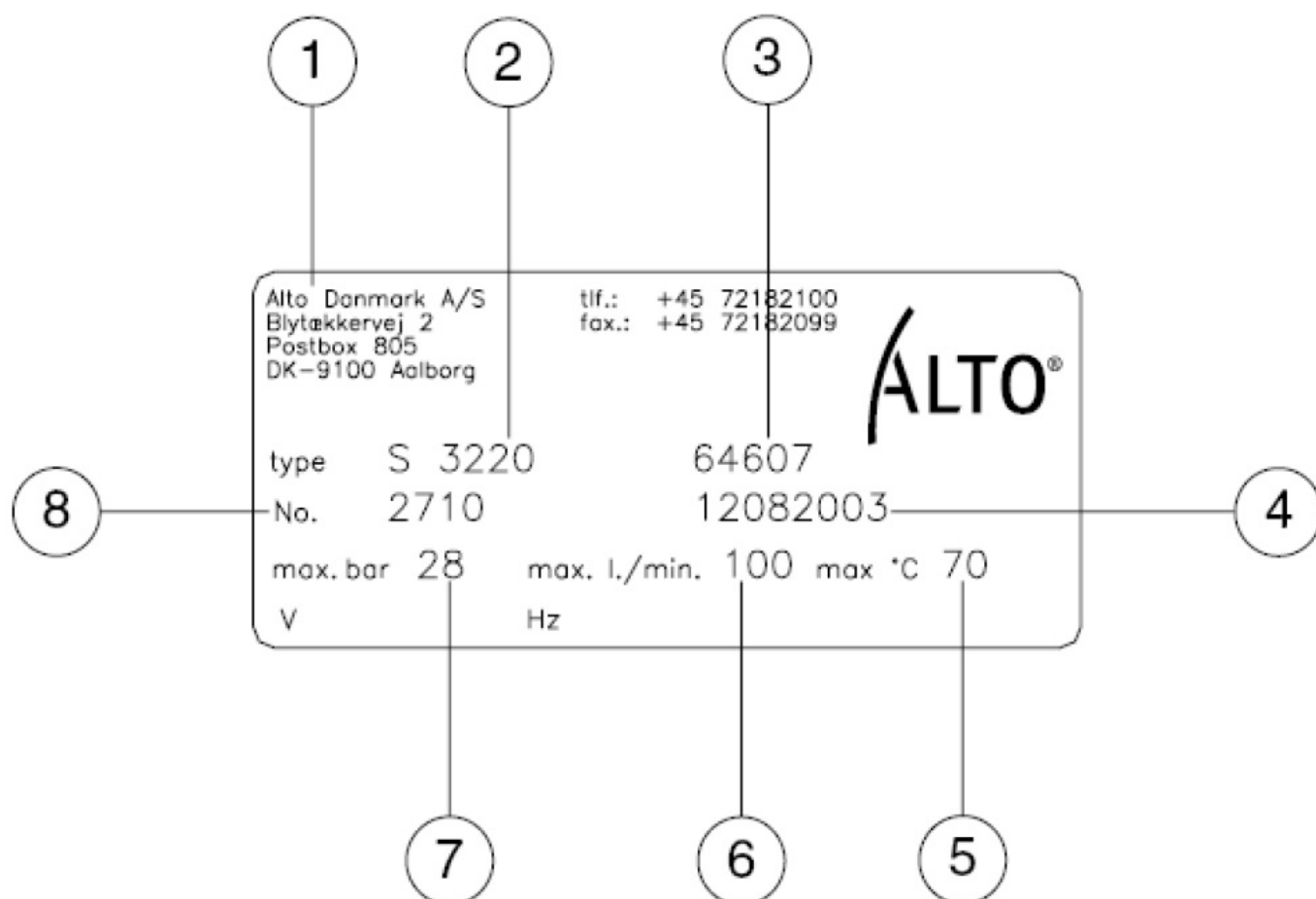
#### Recommended Spare parts

Spare parts for standard Foamatic unit with one detergent.

Item no	Description	Quantity
0664034	Non return valve, air	1
0664080	Non return valve, rinse	1
0664073	Non return valve, detergent	1
637000	Air regulator	1
939904	O-Ring union	1

#### Identification plate - Specifications

The most important specifications of the unit are found on the model tag. For explanation of the individual numbers of the model tag, see below:



1. Producer
2. Type
3. Order number Date
4. Max. temperature
5. Max. flow
6. Max. pressure Serial number

### Water

Supply pressure (bar)	2-10
Min. water supply (l/min)	200
Max. water supply (l/min)	300
Max temperature (C0)	70

### Air

Supply (bar)	6-10
Consumption (l/min)	200-450

### EI



Voltage 50/60 Hz	380-440
Fuse (A)	25
External valves	24V DC

## General

Dimensions (H x B x D) Standard	1075 X 560 X 385
Weight (kg)	150

## Documents / Resources

 <p><b>ECOLAB</b> Foamatic Mainstation S-version</p> <p>MA S-version Foamatic Mainstation, S version Foamatic Mainstation, Foamatic Mainstation, MA PD</p>	<p><a href="#">ECOLAB MA S-version Foamatic Mainstation</a> [pdf] User Manual</p> <p>MA S version Foamatic Mainstation, S version Foamatic Mainstation, Foamatic Mainstation, MA PD</p>
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