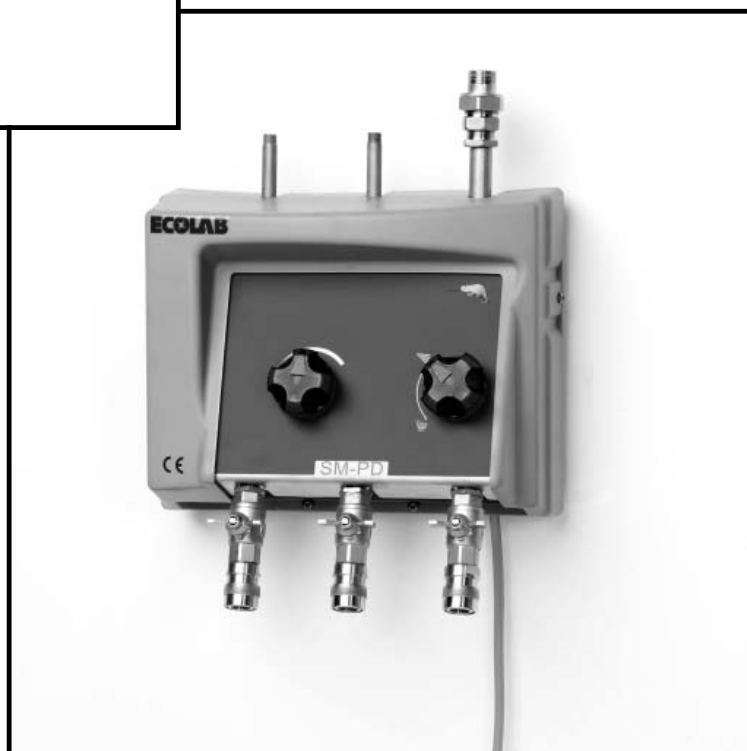


# Professional Satellite SM series



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## 1. Description

The satellite in the Chameleon range is a complete hygiene station which is connected to a booster or a main station. Therefore the satellite must be supplied with water in sufficient quantity, compressed air, detergent(s) and disinfectant. The station is then ready for hygiene duties. The change between rinse and foam on the first injector is manual. To change to another injector/product the hose must be moved between the outlets.

**Important:** Do not use the water from the system for applications other than cleaning.

### Using Hygiene Chemicals

The Professional satellite has been prepared to use Ecolabs European palette of detergents and disinfectants.

### Warning

Do not change the settings made or recommended by the supplier of hygiene chemicals.

A typical installation of the Professional series is shown on Fig. 1

- Main station (1)
- Mixing system (2)
- Satellite (3)

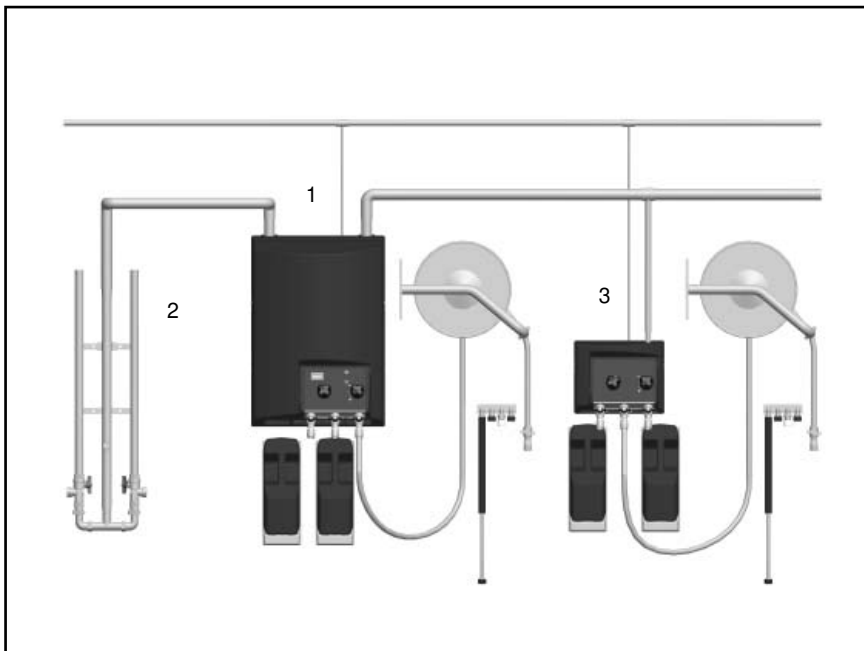


Fig. 1

0627089

Detergents are supplied either from the User Pack System, which can be ordered and delivered as an accessory (Fig.2) or from separate standard cans (Fig.3). Supply is also available via a central chemical supply, either as pre diluted chemical supply (Fig. 8) or as direct injection (user guide no. 0617686) .

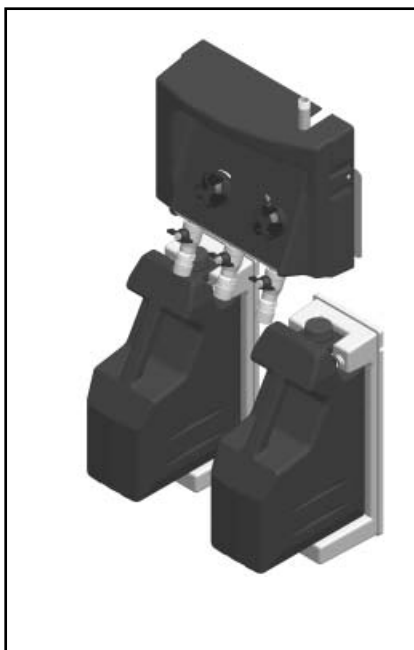


Fig. 2

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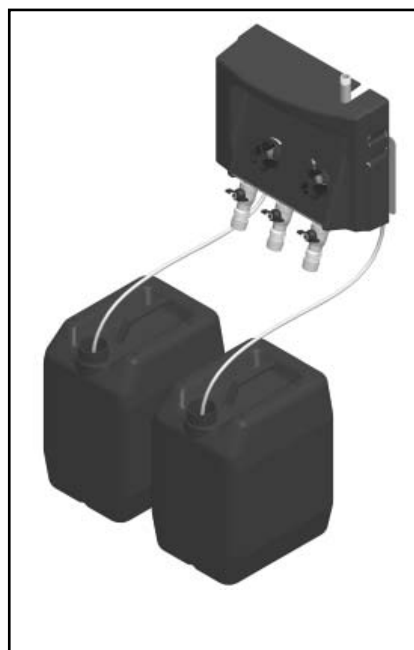


Fig. 3

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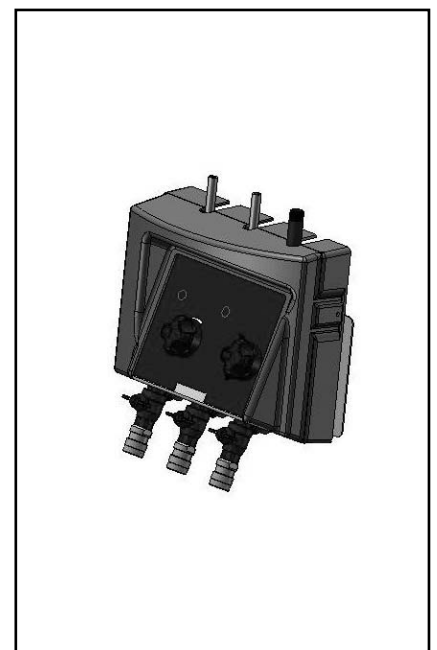


Fig. 8

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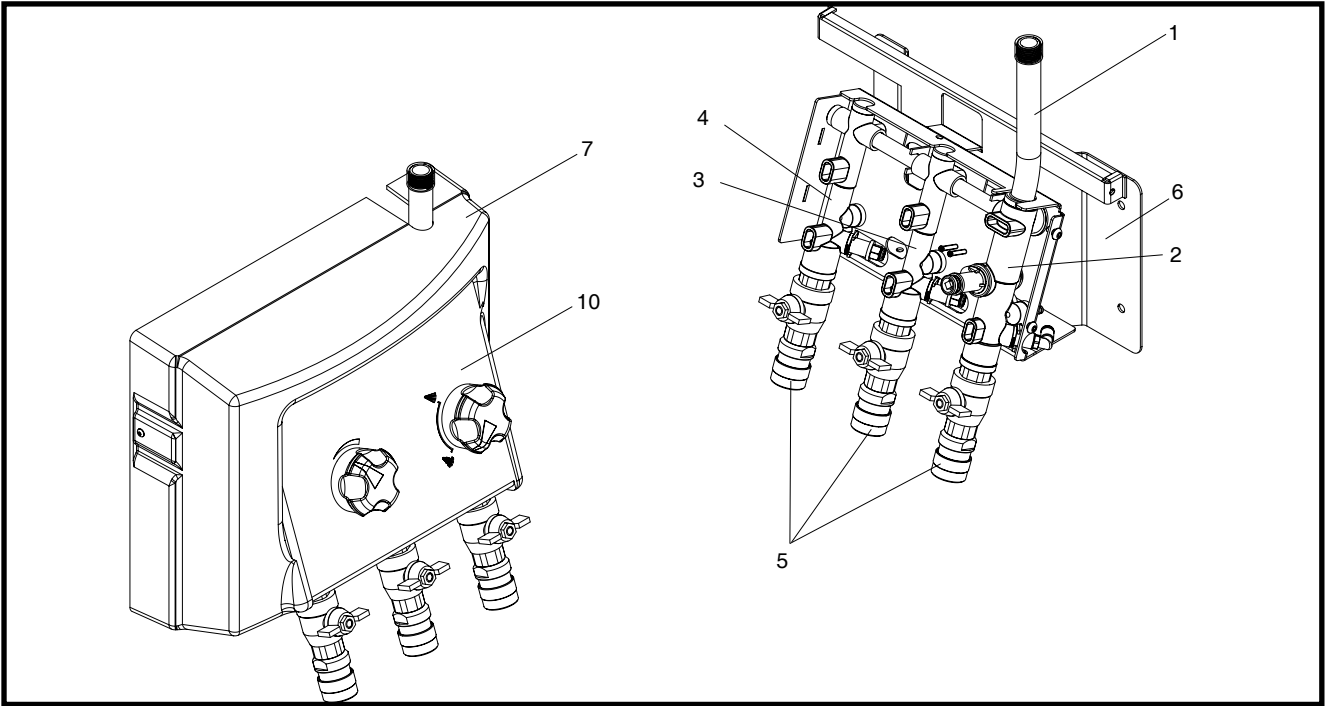


Fig. 4a

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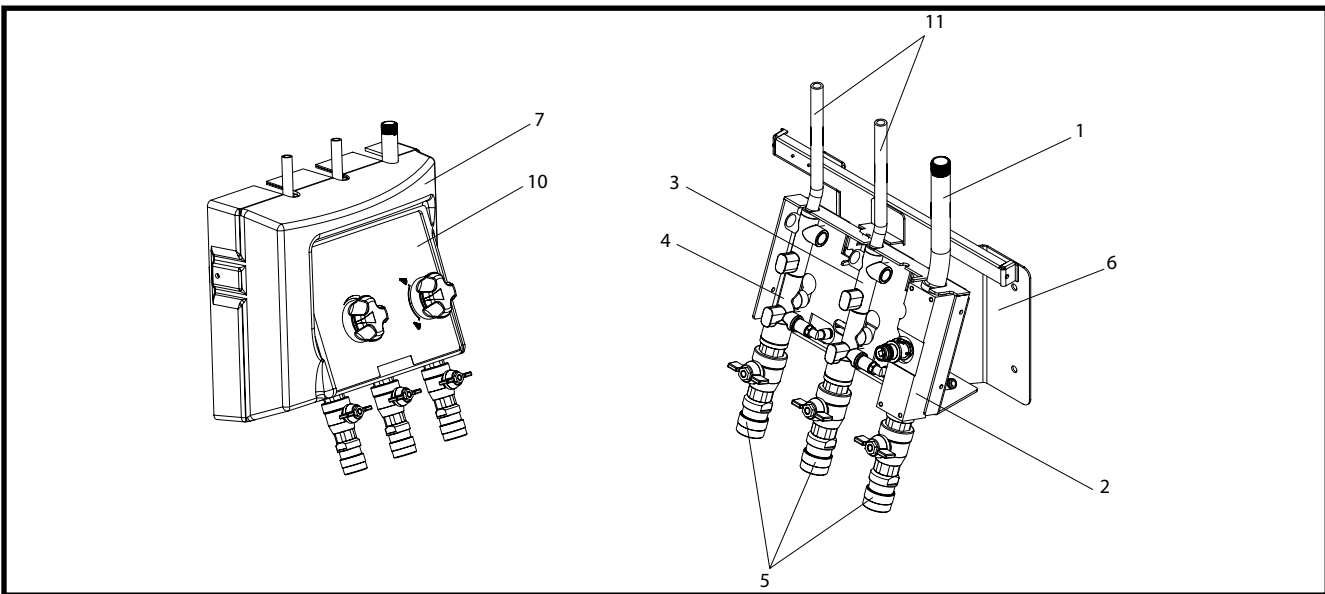


Fig. 4b

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**Satellites**

**SM11-SM21-SM22-SM32-SM33-SM1PD** (Fig. 4).

- 1. Water inlet
- 2. Injector chemistry 1
- 3. Injector chemistry 2
- 4. Injector chemistry 3
- 5. Quick coupling with check tap
- 6. Wall rack
- 7. Cover
- 8. Air regulator
- 9. Change-over switch, foam/rinse
- 10. Operation panel
- 11. Chemical inlet.

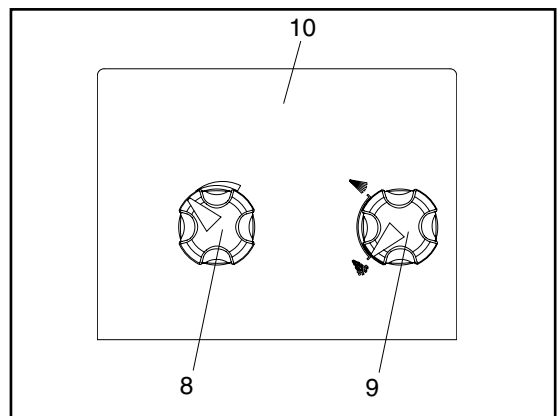


Fig. 5

0627144

**1.1 Operating Diagrams**  
**according to ISO14617**  
**Satellite SM**

- B. Ball valve.
- F. Filter.
- C. Check valve.
- EJ. Ejector.
- HV. Hydraulic valve.
- HC. Hose connection.
- PR. Pressure regulator.
- COV. Change over valve.
- OF. Orifice.
- A. Air supply.
- D. Outlet.
- E. Inlet, Ecolab detergent.
- W. Water inlet.

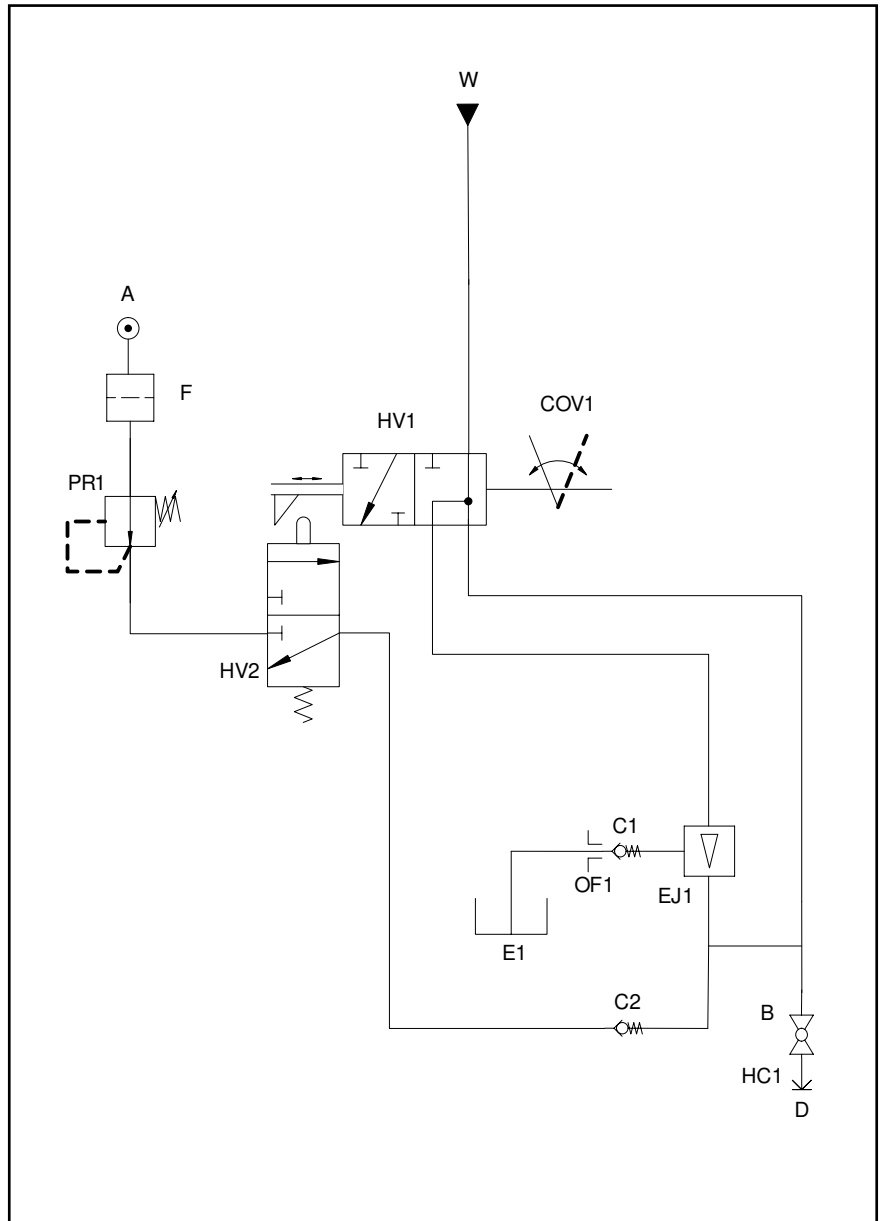


Fig. 6

0627150

## 2. Maintenance

Besides the procedures described in item 4.3 the satellite is maintenance-free. However, we recommend cleaning the satellite occasionally in connection with the cleaning of other equipment in the area. The satellite is maintenance-free.

## 3. Start

### 3.1 New system

In order to ensure a problem-free start up of a new system the pipe system must be flushed and bled:

#### Bleeding the pipe system

1. Turn on the water supply to rinse and bleed the entire system. Open the tap furthest away until no air or dirt comes out. Then rinse and bleed the next tap and continue until the tap closest to you has been rinsed and bled.
2. Mount satellites.
3. Chemical supply lines are only to be bled by authorised personnel appointed by Ecolab.

## 4. Daily operation

### 4.1 Start

1. Check that water- and air supplies for the system are open. (see A, Fig.7, air). Activate central chemical supply if present.
2. Set the function that you want. Use the system referring to "User Guide" instructions.

### 4.2 Stop

1. Press "0" on the control panel to stop.
2. Close the water supply
3. Close the air supply(A, Fig. 7)
4. De-activate the chemical supply, switch off closing valves if any.

**Note:** It is important to shut off the water, air and chemistry, when the machine is left after use because:

- If the air supply is open when the satellite is not in use, air may seep into the water pipe. If this is the case the system may have to be bled again.

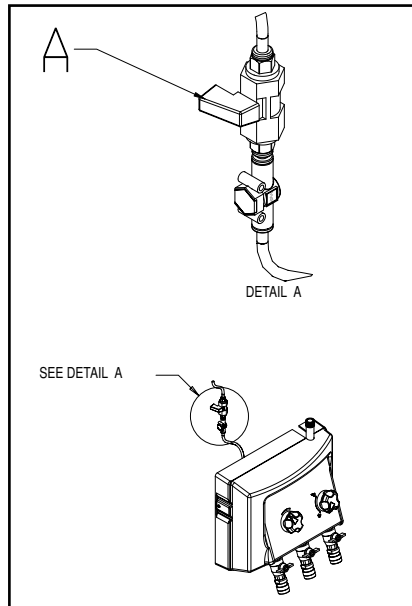


Fig. 7 0627135

- The water separator, which is a part of the air regulator, is only to be emptied when the air is shut off.
- If the water and the air supply is closed, but the outlet tap on the satellite is open, chemical can be pumped out on the floor etc. This is only possible in connection with direct or pre diluted chemical supply.

It may be necessary to bleed the pipes and the satellite again after it has been closed for a longer period of time (holidays, and the like)

### 4.3 Rinsing the chemistry supply

**IMPORTANT: The chemistry supply must always be rinsed thoroughly after use.**

**The following does not concern units (satellites) with central chemical supply. Rinsing of central supply lines are only to be carried out by Ecolab, or people appointed by Ecolab.**

Remains of detergent or disinfectants can clog the injector so it needs to be rinsed or replaced. The following procedure will clean the injector for detergent and/or remains of disinfectants.

1. Remove User Pack, if any.
2. Hold the rinsing bottle with clean water tightly against the suction opening (with User Pack) or against the hose (without User Pack). Alternatively, you can place a User Pack with clean water in the

holder or – without User Pack – place the hose in a bucket of clean water.

3. Activate the hose handle until clean water comes out of the nozzle (approx. 30 seconds).

**Note:** This procedure should be followed for both the detergent and disinfectant side (if this is installed).

## 5. Service

Service may only be carried out by authorized and qualified personnel.

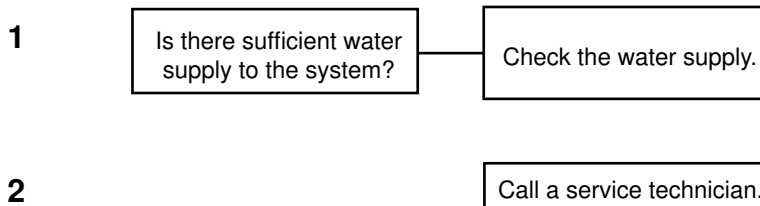
**Warning:** The satellite must only be serviced when there is no pressure on the system.

1. Turn off the water and air supply
2. Turn off the power supply.
3. Disconnect the chemical supply.
4. Depressurise the system.

## 6. Troubleshooting

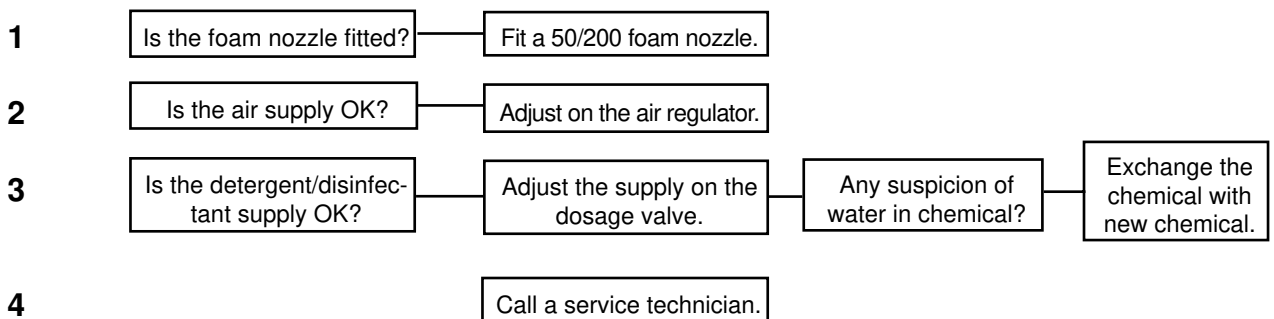
### 6.1 Too low or unstable pressure

#### Steps 1 - 2



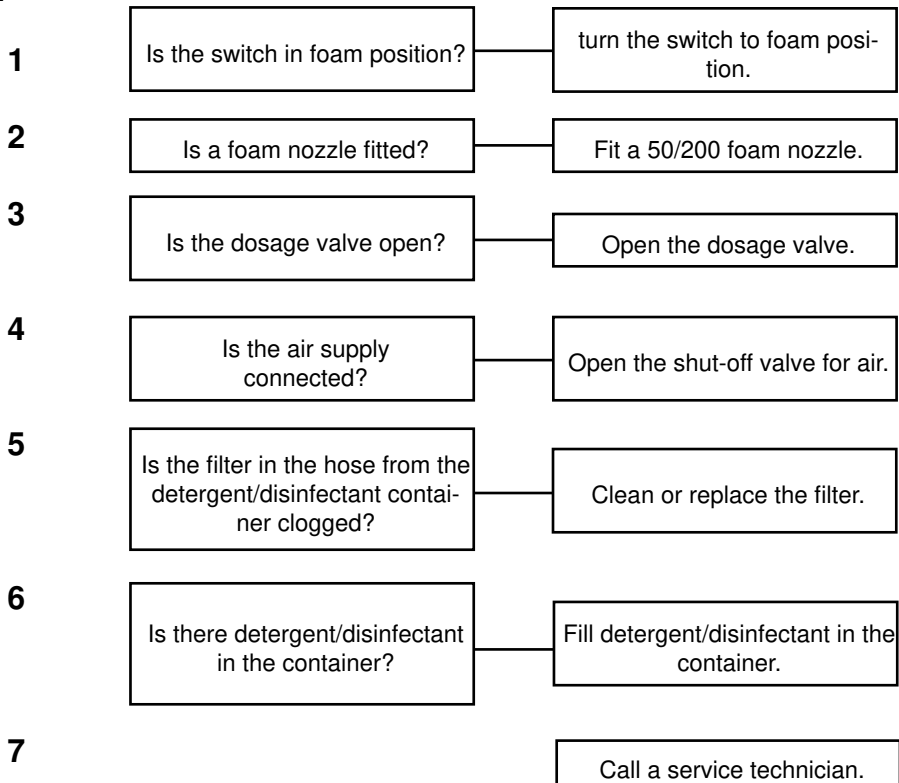
### 6.2 Unsatisfactory foam quality

#### Steps 1 - 4



### 6.3 No foam creation

#### Steps 1 - 7



## 7. Recommended spare parts

### Satellite

Nr.	Description	Amount
0664136	Non-return valve, air	1
0646050	Non-return valve, chemistry	1
0603339	Non-return valve, water	1
0603338	Non-return valve, water	1

## 8. Specifications

The most important specifications are shown on the serial plates on the main station/satellite and pump, respectively.

Technical Data		
<b>Water</b>	<b>Unit.</b>	<b>Pro.</b>
Max. Outlet pressure.	bar	25
Consumption during rinsing.	L/min	30* - 35
Consumption during foaming.	L/min	10
Min. supply pressure.	bar	12
Max. supply pressure.	bar	25
Min. water supply.	L/min	30
Max. water temp.	°C	70
Pipe dimension inlet Ø	inch	½"
Pipe dimension outlet Ø	inch	½"
<b>Compressed air</b>		
Min/Max air pressure.	bar	5-10
Compressed air consumption.	NL/min	200
Pipe dimension inlet Ø	mm	6
<b>General</b>		
Dimensions H x W x D	mm	330x403x215
Weight (kg)	kg	13

All specifications are based on 25 bar supply pressure

\* Depends on nozzle size

Technical Data Pre diluted chemical (SM-PD)		
Chemical inlet (Dim).	Inch	1/4"
Max. Supply pressure.	bar	10
Max. Flow @10 bar	L/min	15,2
Max. Flow @5 bar	L/min	11,3
Min./Max. Air pressure.	bar	3* - 8









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