

Directions for Use
Topax Hygiene System
Automatic Satellite S 5000
and
Automatic Main Station S 6000

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1. Preface

Topax Hygiene Systems are used for rinsing, foaming or spraying of detergents and sanitisers. The formation of foam is performed by mixing water, detergent or sanitiser and compressed air in a specially designed injector system.

It is important that your operational staff reads these directions for use prior to installation and start of operation. Operation as laid down in the directions for use will ensure an optimum level of hygiene in your factory and a minimum level of maintenance and repair work.

1.0 Application

S 6000 and S 5000 are stationary cleaning stations designed to automatic cleaning. Furthermore, manual S 3000 satellites can be connected to the S 6000. S 5000 is to be connected to a main/pump station. We recommend the P3 Topax Hygiene Controller to control the hygiene-cycles. The stations are made of corrosion resistant materials, mainly stainless steel, and are therefore especially suitable for application within the food industry. If you need further information, please contact Henkel-Ecolab.

Standard programmable hygiene stages are as follows:

- a) pre-rinse with water
- b) clean with foam
- c) rinse off with water
- d) sanitise with spray or foam
- e) final rinse with water

1.1 Special Warnings

The special warnings **CAUTION**, **ATTENTION** and **NOTE** used in this Technical Manual have the following meanings:

CAUTION: This term is used to highlight the fact that complete or even partial failure to properly adhere to operating instructions, working instructions, specified working sequences and similar can cause personal injuries or accidents.

ATTENTION: This term is used to highlight the fact that complete or even partial failure to properly adhere to operating instructions, working instructions, specified working sequences and similar can cause damage to the equipment.

NOTE: This term is used to draw attention to a particular feature.

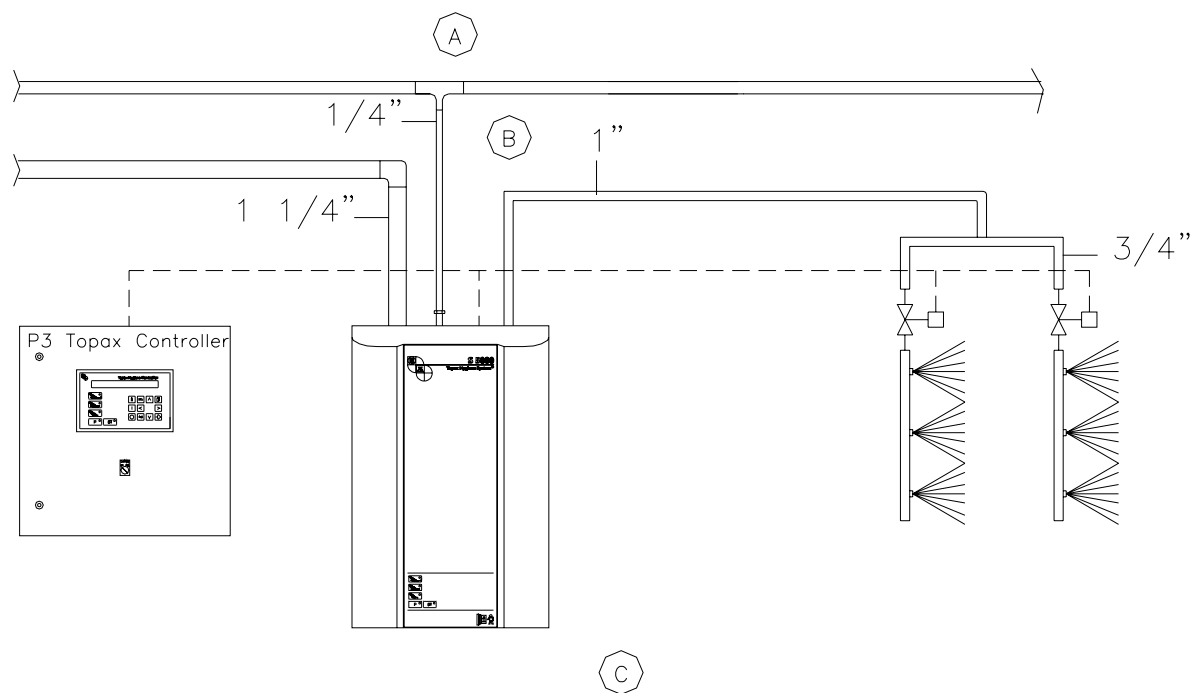
1.2 Safety Instructions

S 6000 must only be connected to a 380 VAC supply. S 5000 must only be connected to a 24 VDC supply. Repairs of the main station must only be carried out when it has been turned off and depressurised.

2. Product Survey

2.0 Guidelines for Pipe Connections

S 5000



17047

Fig. 2.0.1

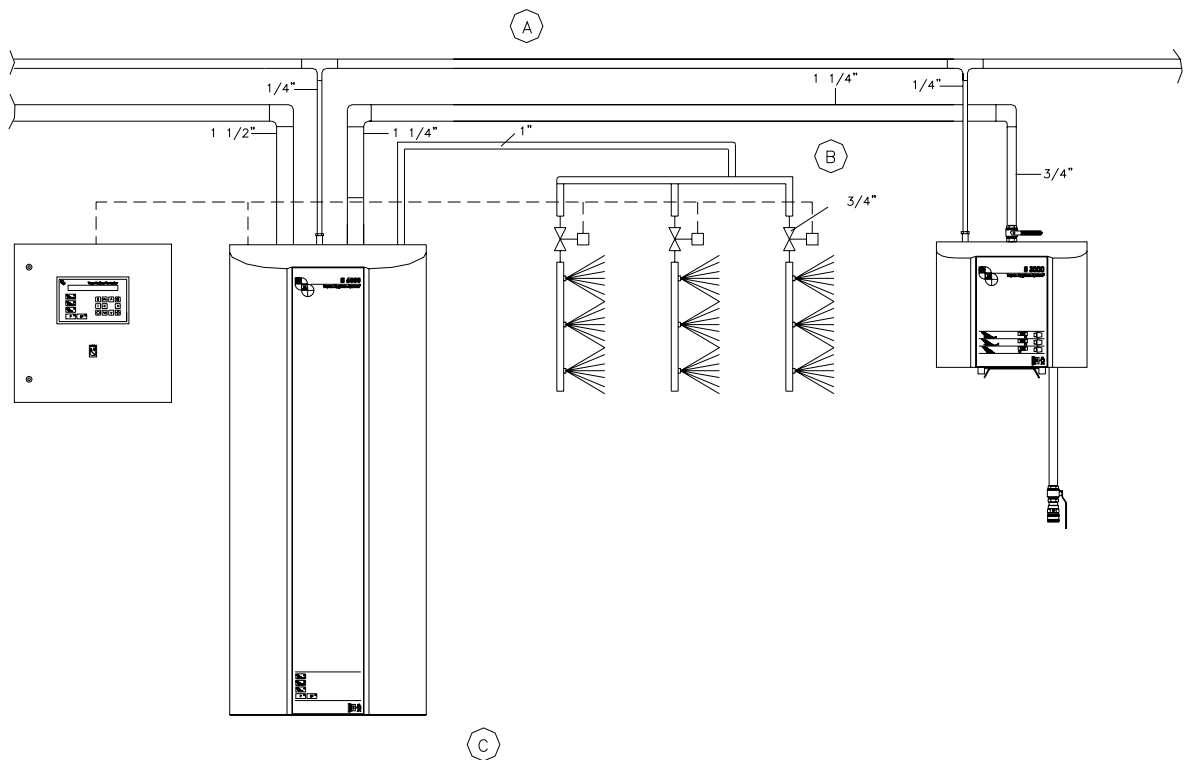
(A) Air supply min. 6 bar and 200 l/min.

(B) 1", max. length 40 m.

(C) Water supply max. 25 bar and min. 12 bar, max. temperature 70°C. Pipe dimensions min. 1 1/4".

S 6000

Vers. 1.0 - 17.01.97



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Fig. 2.0.2

(A) Air supply min. 6 bar and 200 l/min.

(B) 1", max. length 40 m.

(C) Water supply max. 4 bar and min. 2 bar, max. temperature 70°C. Pipe dimensions min. 1 1/2".

2.1 Basic Unit S 5000

The basic satellite station consists of a S 5000 inclusive of the accessory listed in section 2.2. The P3 Topax User Pack, automatic valves and nozzle-stations are non-standard accessories and should therefore be ordered and purchased separately.

2.2 Accessories

The station is equipped with the following standard accessory:

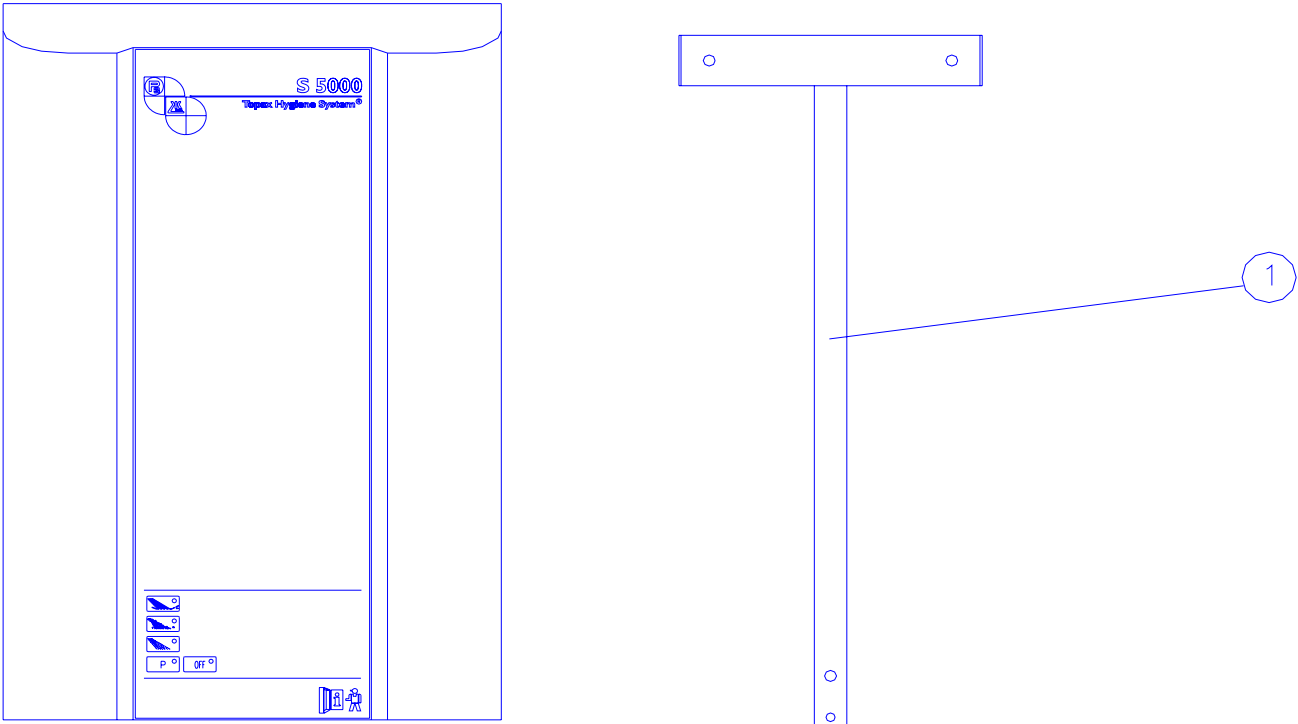


Fig. 2.2.1

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- 1. Wall bracket

2.3 Basic Unit S 6000

The basic main station consists of a S 6000 inclusive of the accessory listed in paragraph 2.4. The P3 Topax User Pack, automatic valves and nozzle-stations are non-standard accessories and should thus be ordered and purchased separately.

2.4 Accessories

The main station is equipped with the following standard accessory:

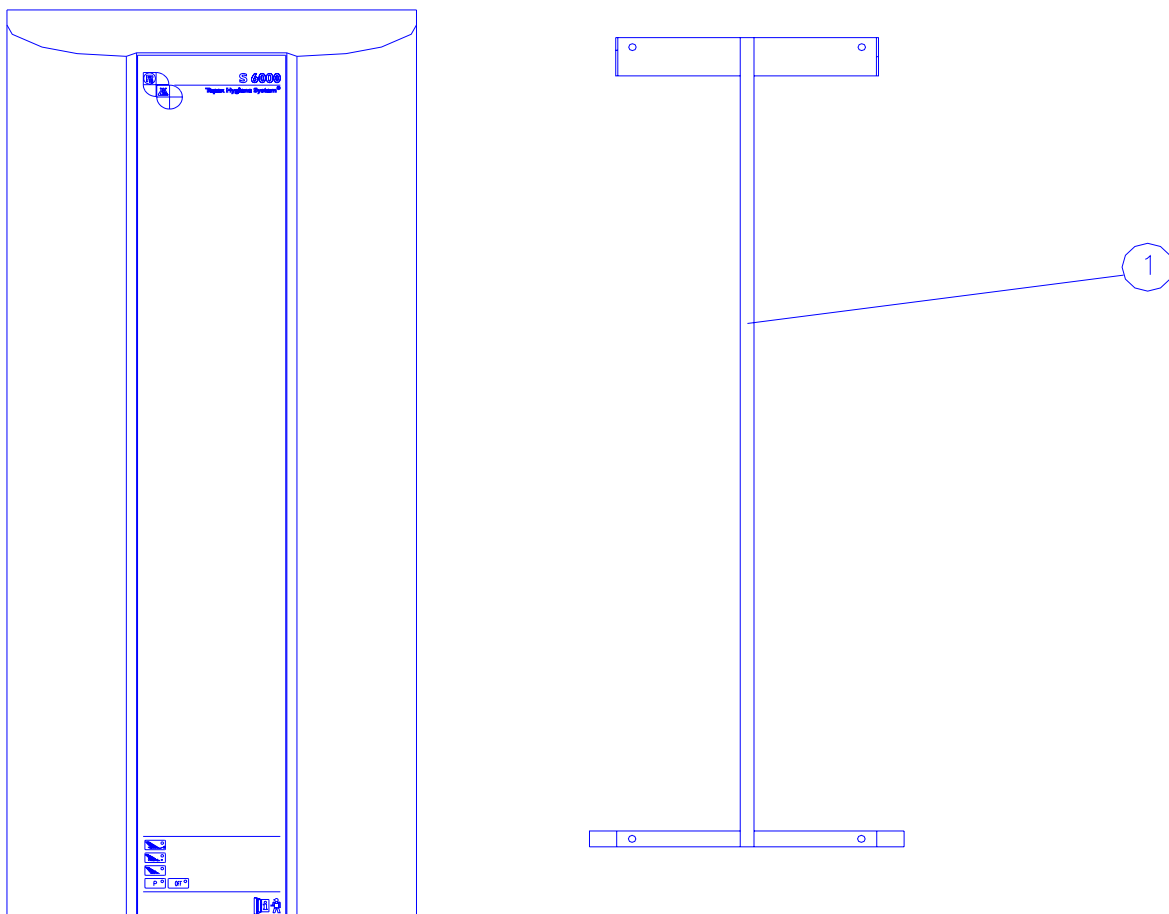


Fig. 2.4.1

1. Wall bracket

3. Description of Function

3.0 Flow Charts

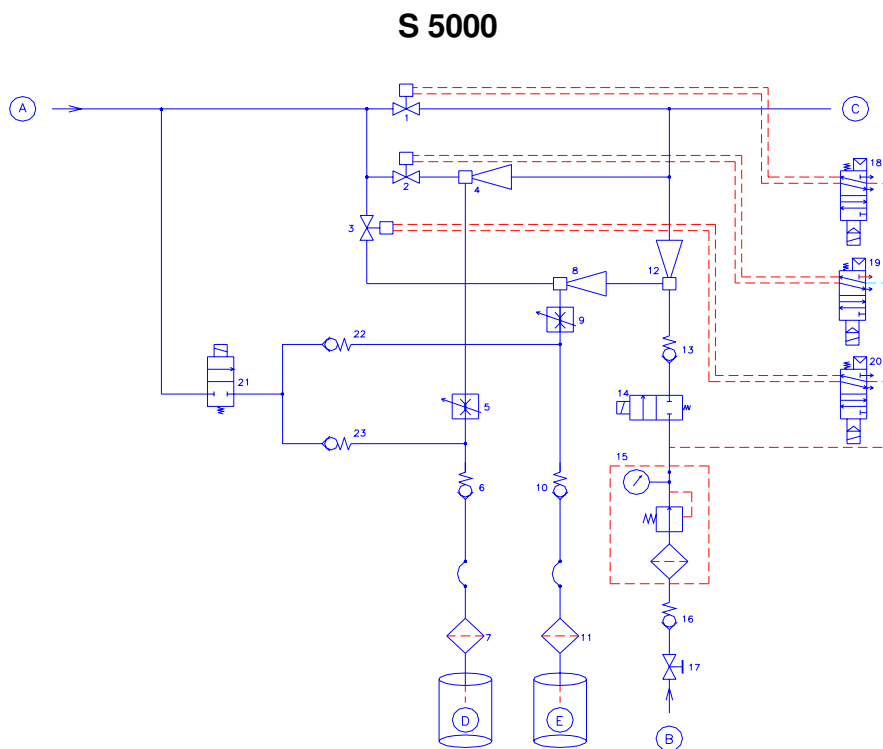


Fig. 3.0.1

- (A) Water.
- (B) Air.
- (C) Outlet.
- (D) Sanitising.
- (E) Detergent.

- | | | | |
|------|-------------------------------------|--------|------------------------------------------|
| 1-3. | Ball valves with pneumatic actuator | 13. | Non-return valve for air |
| 4. | Injector | 14. | Solenoid valve |
| 5. | Dosing valve for sanitising | 15. | Filter/gauge/adjustment - air |
| 6. | Non-return valve for sanitising | 16. | Non-return valve for air |
| 7. | Filter for sanitising | 17. | Air inlet valve |
| 8. | Injector | 18-20. | Pilot valves |
| 9. | Dosing valve for detergent | 21. | Solenoid valve |
| 10. | Non-return valve for detergent | 22-23. | Non-return valves, rinse water injectors |
| 11. | Filter for detergent | | |
| 12. | Injector, air | | |

07051

S 6000

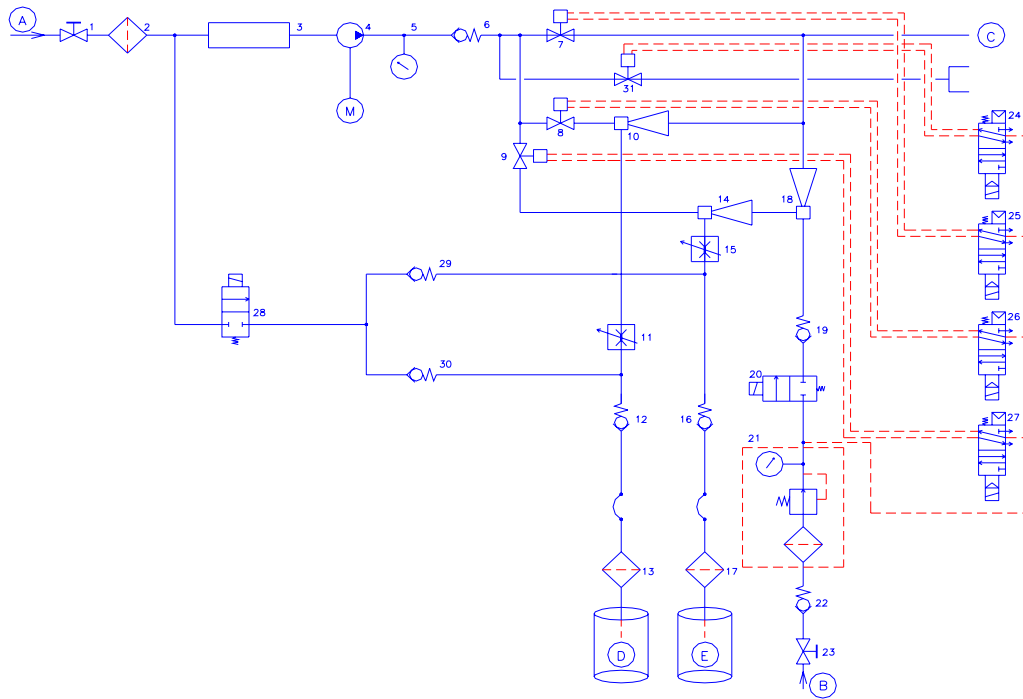


Fig. 3.0.2

- (A) Water.
- (B) Air.
- (C) Outlet.
- (D) Sanitising.
- (E) Detergent.

- | | | | |
|------|-------------------------------------|--------|---------------------------------------------|
| 1. | Water inlet valve | 16. | Non-return valve for detergent |
| 2. | Filter | 17. | Filter for detergent |
| 3. | Flow switch | 18. | Injector, air |
| 4. | Pump | 19. | Non-return valve for air |
| 5. | Gauge, water pressure | 20. | Solenoid valve |
| 6. | Non-return valve for water | 21. | Filter/gauge/adjustment - air |
| 7-9. | Ball valves with pneumatic actuator | 22. | Non-return valve for air |
| 10. | Injector | 23. | Air inlet valve |
| 11. | Dosing valve for sanitising | 24-27. | Pilot valves |
| 12. | Non-return valve for sanitising | 28. | Solenoid valve |
| 13. | Filter for sanitising | 29-30. | Non-return valves, rinse water injector |
| 14. | Injector | 31. | Ball valve with pneumatic actuator (option) |
| 15. | Dosing valve for detergent | | |

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3.1 Electric Diagrams

S 5000

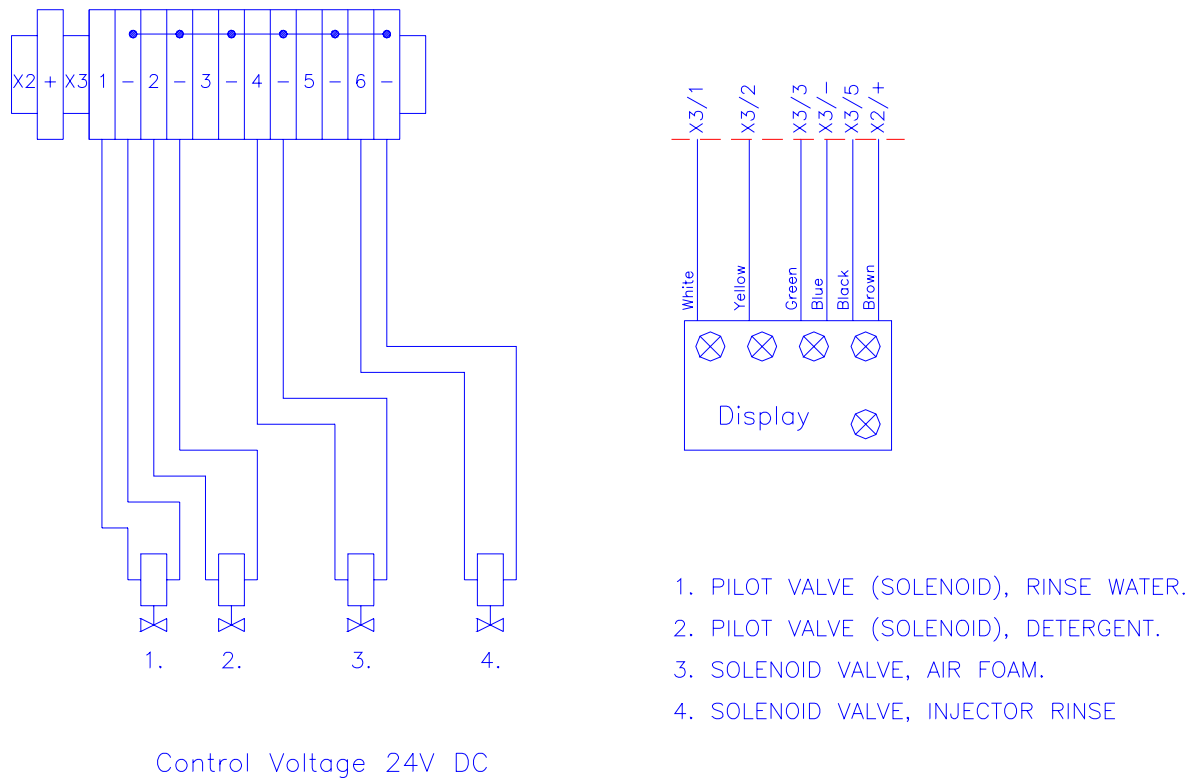


Fig. 3.1.1

01094

S 5000D

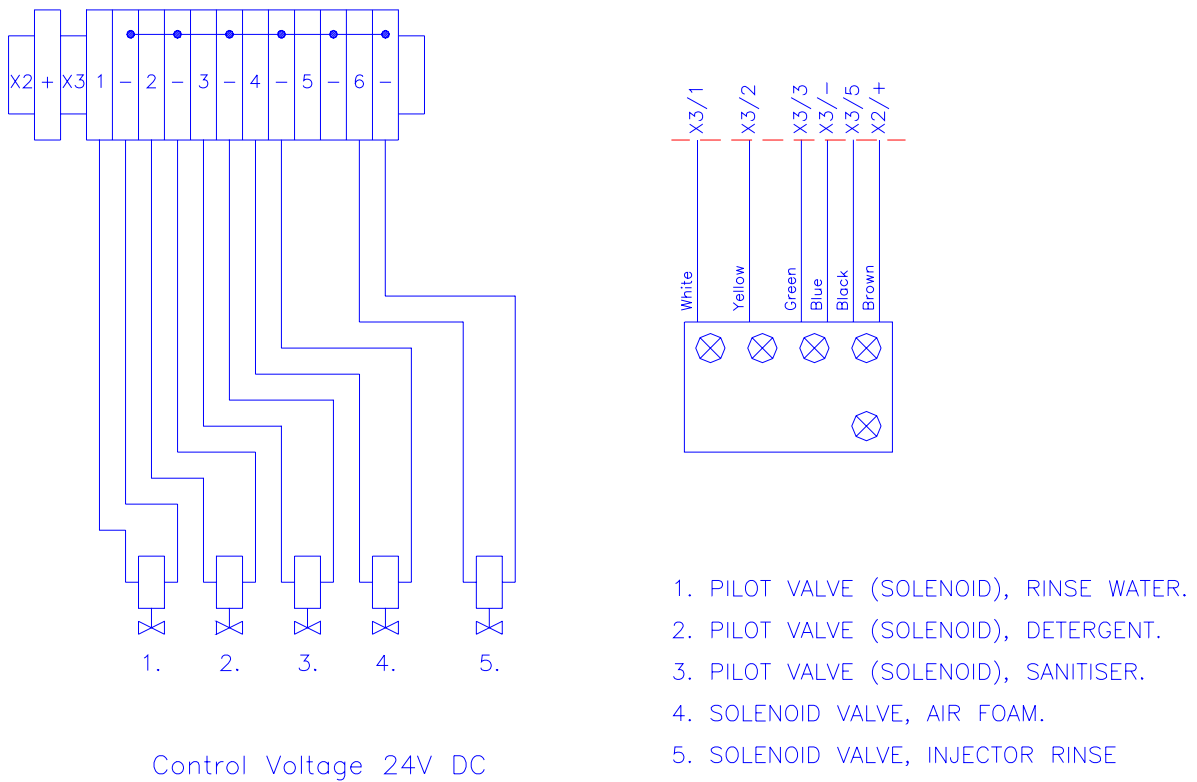


Fig. 3.1.2

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S 6000

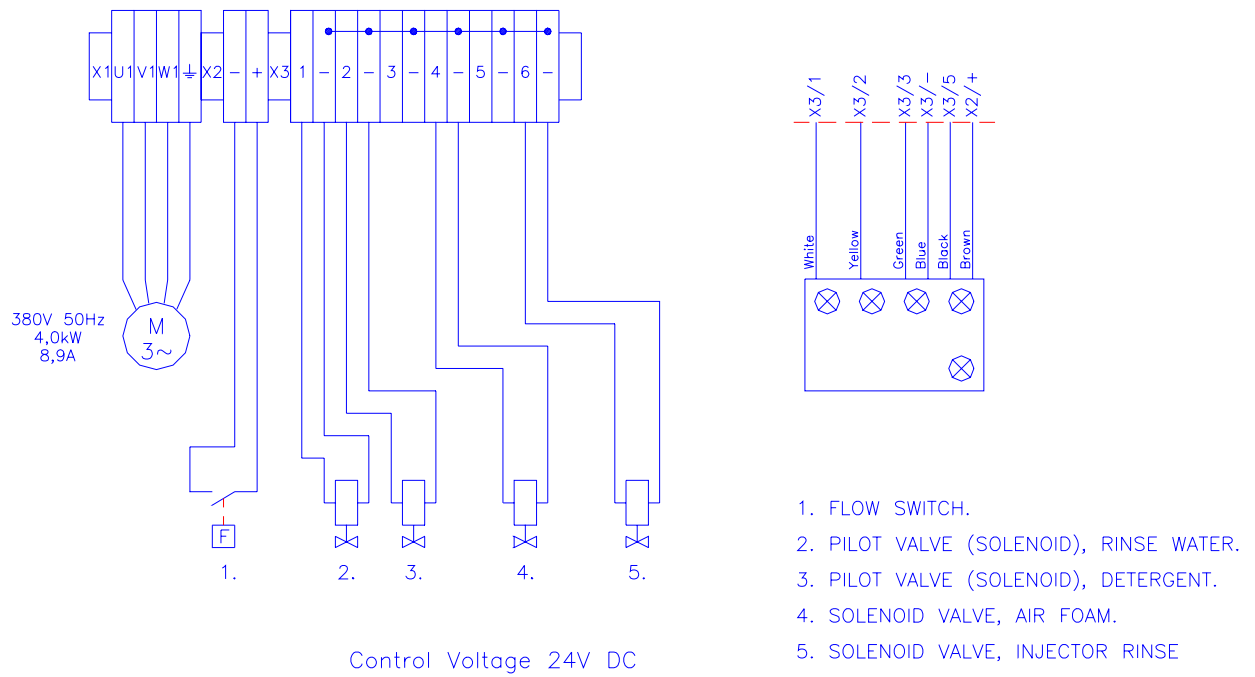


Fig. 3.1.3

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S 6000 D

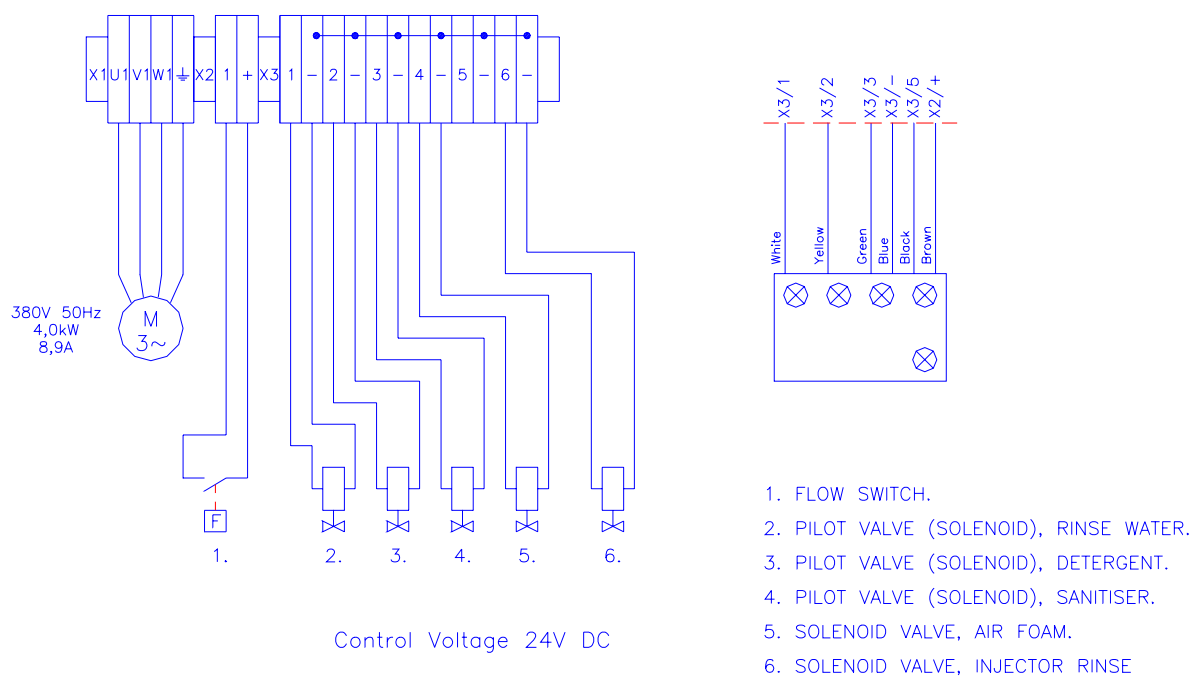


Fig. 3.1.4

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3.2 Function of P3 User Pack System (accessory)

Principle of operation

The P3 User Pack is pushed into the holder under the station. The wide bracket on the right is intended for P3 Topax detergent and the narrow bracket on the left for P3 Topax sanitising. The suction pipe, which is fixed inside the lid, guides the product to the injector where it is mixed in the mixing chamber.

The level of P3 Topax product is indicated on the outside level tube.

CAUTION!

When changing between different products in the P3 User Pack, the cans must be rinsed thoroughly with clean water. Further, the injector must be rinsed.

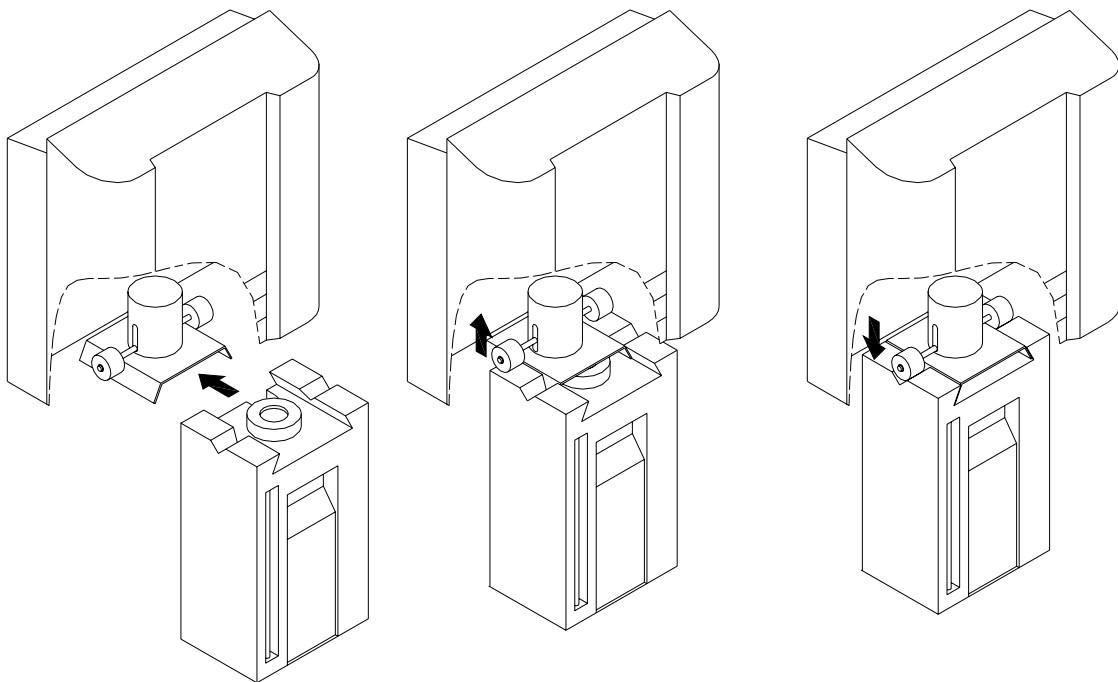


Fig. 3.2.1

4. Installation

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4.0 Directions for Mounting

ATTENTION!

- a) The stations should be mounted in frost-free rooms only.
- b) The station can be mounted on a wall or on a separate frame , which can be installed in production areas and anchored to the floor.

For mounting on walls please note the following:

1. The wall for mounting should be either a stable brick or a wall made of concrete.
 2. The delivered bracket should be secured to the wall by the enclosed screws and corresponding dowels.
- c) The mounting holes for the wall bracket must be drilled according to the dimensional sketches on pages 15 and 16.
 - d) The wall bracket must be mounted on the wall as described on pages 15 and 16. Afterwards the station is installed on the bracket. Mount the delivered angle hinges on the rear part of the pump plate ensuring that the lower part of the frame is fastened.
 - e) S 6000 is delivered with two transport fittings, which must be removed after the station has been mounted on the wall bracket.

Mounting of S 5000

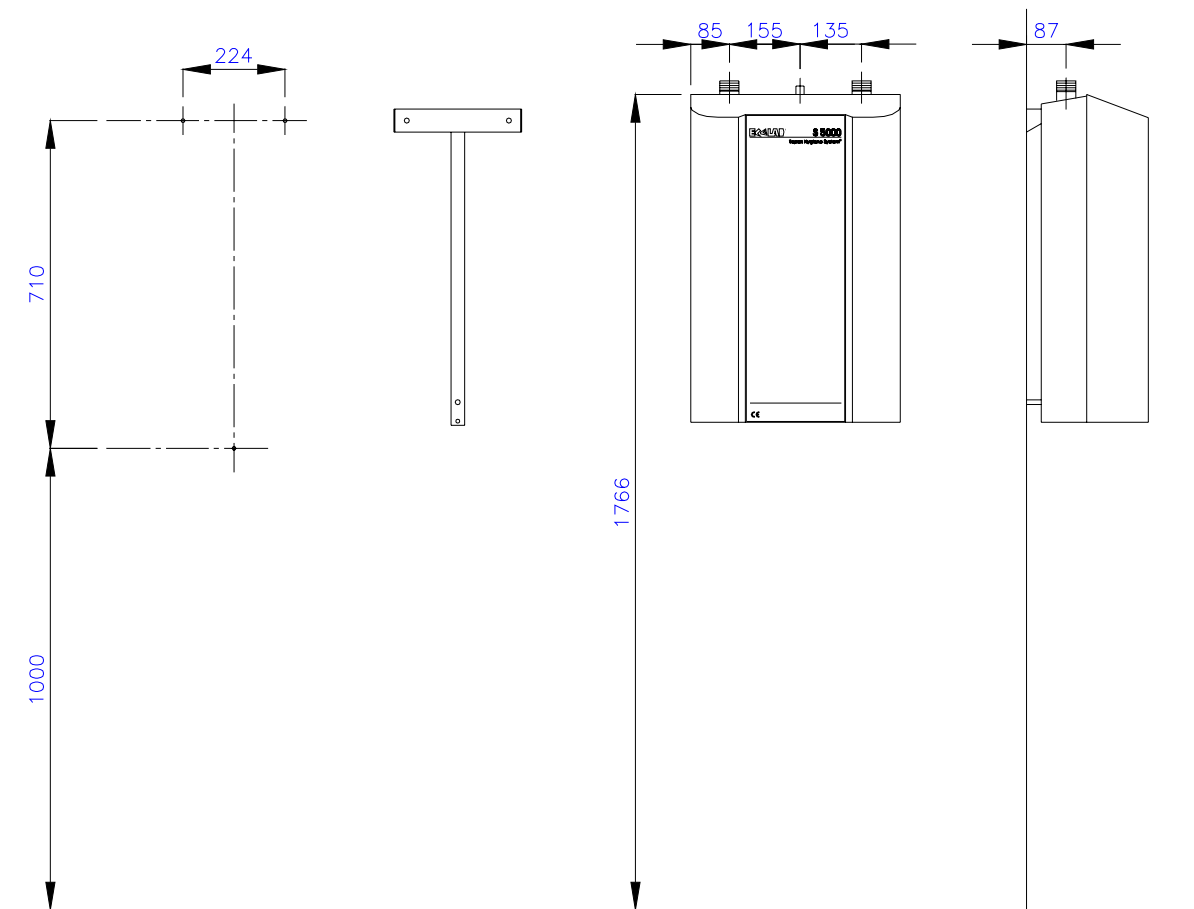


Fig. 4.0.1

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Mounting of S 6000

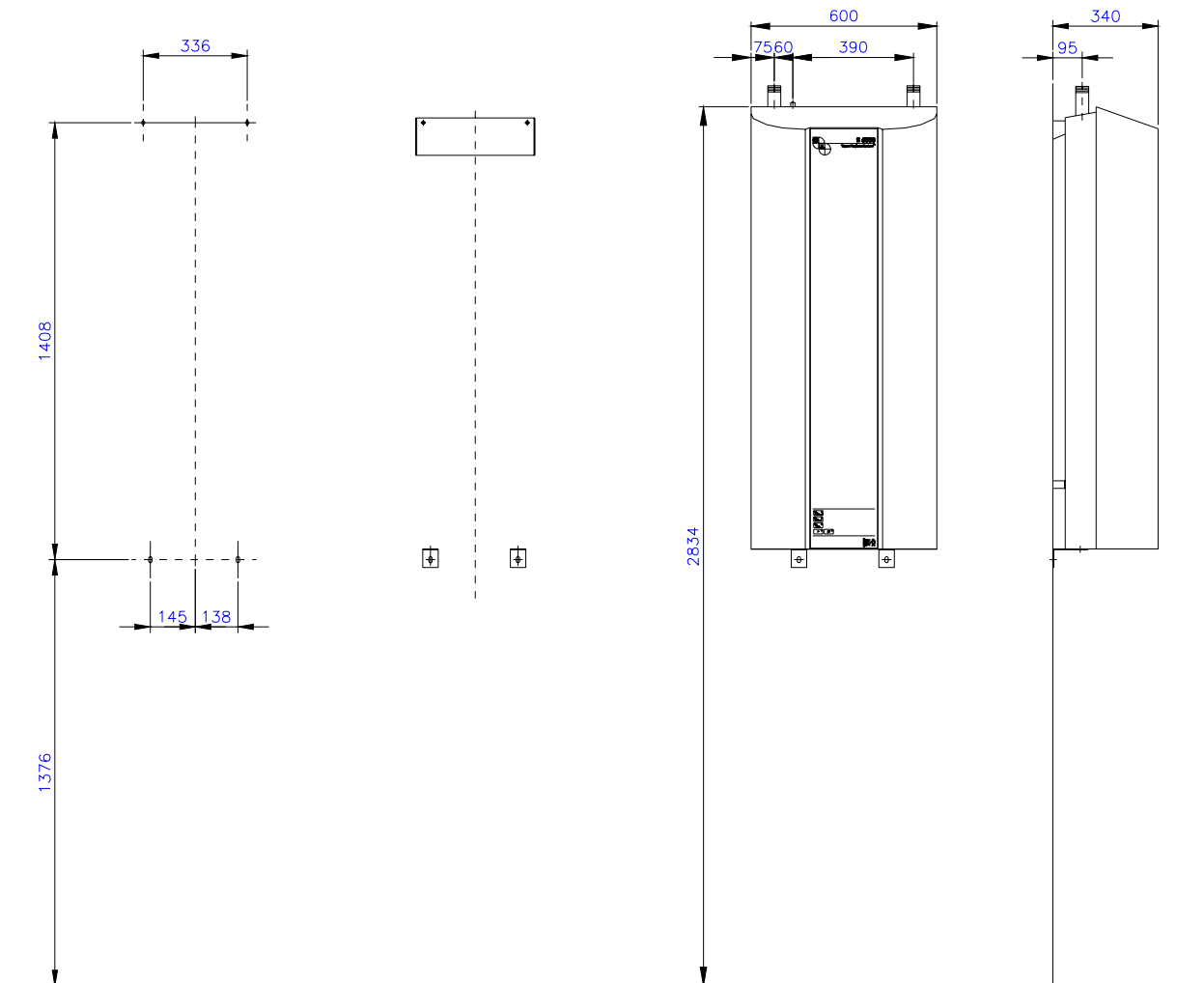


Fig. 4.0.2

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4.1 Water Connection

ATTENTION!

a) **Before the main station is connected to the water supply pipe, the supply line should be rinsed through carefully in order to remove coarse impurities and metal shavings.**

b) The connection for water should be made at the top of the station (A on layout drawings pages 22 and 23).

S 5000:

c) Minimum internal diameter of the supply pipe must be 1 1/4" (32 mm) at a minimum water pressure of 12 bar.

S 6000:

Minimum internal diameter of the supply pipe must be 1 1/2" (40 mm) at a minimum water pressure of 2 bar.

d) **CAUTION!**

The connection to the water supply must comply with local legislation and any safety precautions must be observed.

e) Internally, S 6000 is equipped with a filter in the supply line to the pump.

f) Pressure loss in the supply line must be held as low as possible that means

- avoid long supply pipes
- mount low-pressure resistance ball valves and
- avoid fittings with high pressure loss

NOTE!

- g) When installing the piping, take care to avoid air traps.
- h) All pipe connections to the station must be screwed connections ensuring simple maintenance and dismantling of the station.

S 6000:

- i) Maximum allowed temperature of supply water: 70° C
Maximum allowed pressure of supply water: 4 bar
Minimum allowed pressure of supply water: 2 bar
Minimum water supply: 100 l/min.

S 5000:

- Maximum allowed temperature of supply water: 70° C
Maximum allowed pressure of supply water: 25 bar
Minimum allowed pressure of supply water: 12 bar

4.2 Connecting S 6000 with S 5000

- a) Remove screw cap from outlet (H on layout drawing page 22, K and L on layout drawing page 23).
- b) Install pipe work with a minimum diameter of 1 1/4" (32 mm) from the outlet to the required number of satellite stations and water taps. Afterwards, it must be connected to the satellite station via 3/4" (21 mm) pipe work (drawing on page 3).
- c) Connection to the satellite must be made with a union for easy dismantling of the station.
- d) Use the same diameter through out the main piping is recommendable. This allows the flow switch to operate effectively and gives the best flow results.
- e) The pipe work used must be approved for ambient conditions and a minimum pressure rate of 25 bar. It is recommended to use pipe holders with rubber lining.

4.3 Air Connection

ATTENTION!

- a) **Before S 6000/S 5000 stations are connected to the air supply, the pipe must be carefully rinsed in order to remove coarse impurities.**
- b) The station requires an air supply providing
 - an inlet pressure of minimum 6 bar
 - a minimum capacity of 200 l/min.
- c) The air supply pipe is connected directly with a union for easy dismantling. An inlet valve with 1/4" thread is fitted in all stations (J on layout drawing page 22, N on layout drawing page 23).

4.4 Electric Connection

CAUTION!

Electric connection is to be made by authorised engineers only.

- a) The electric requirements are specified on the identification plate (page 28). A certified electrician must make the electric connections.
- b) The pump connection must ensure correct direction of rotation. See rotation of arrow on the pump.
- c) It is recommended to protect against earth leakage (0.03 A).

4.5 Supply of P3 Topax Products

Satellite/Main station without User Pack System

- a) Place the can with P3 Topax product in the can holder.
- b) Check the suction filter for impurities.
- c) Put the suction hose into the can below product level and avoid suction of air.

After pre-rinsing check again that the hose is sufficiently below product level and avoid suction of air during operation with foam or spray function.

- d) After use of and when changing P3 Topax as well as after having used the station, remove the hose from the can and rinse the suction and injector thoroughly with water.

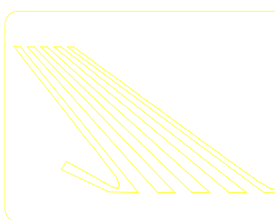
Satellite/Main station with User Pack System

- a) Place the specially designed P3 User Pack in the automatic holder.
- b) If changing to a different P3 Topax product, rinse the suction with clean water in the following way:

Replace the P3 User Pack containing P3 Topax product by one with clean water, activate the foaming stage until only water flows through the nozzle-stations. Now the suction/injector is rinsed with water before use of another P3 Topax product.

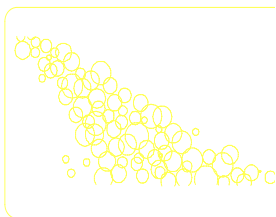
5. Operation Instructions

5.0 Symbols



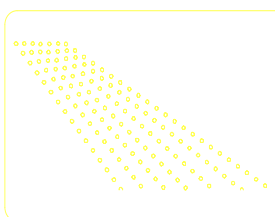
RINSING

Illuminated when the automatic station is in rinse mode.



FOAMING

Illuminated when the automatic station is in cleaning mode.



SANITISING

Illuminated when the automatic station is in sanitising mode.



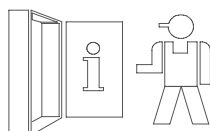
PAUSE

Illuminated when the automatic station is in pause mode.



OFF

Illuminated when the automatic station is on STANDBY.



INFORMATION

Information is placed on the inside of the cabinet door. This manual should always be kept there.

5.1 Layout Drawings

S 5000

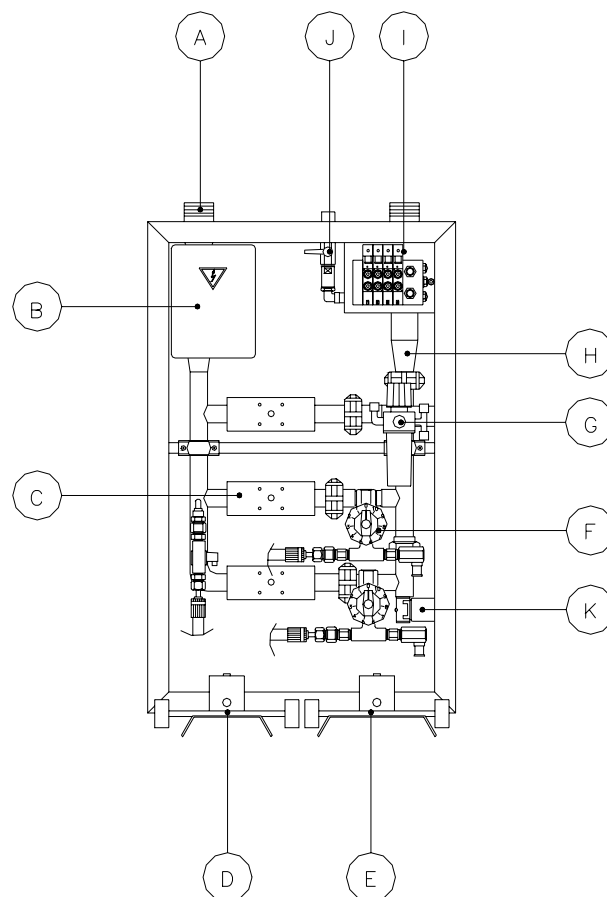


Fig. 5.1.1

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- | | | | |
|----|----------------------------------------------------------|----|-----------------------------------|
| A. | Supply water connection | F. | Dosing valve for P3 Topax product |
| B. | Electric box | G. | Pressure regulator |
| C. | Valve with pneumatic actuator | H. | Outlet pipe |
| D. | Automatic holder for P3
User Pack detergent (option) | I. | Pilot valve |
| E. | Automatic holder for P3
User Pack sanitising (option) | J. | Air inlet valve |
| | | K. | Solenoid valve |

S 6000

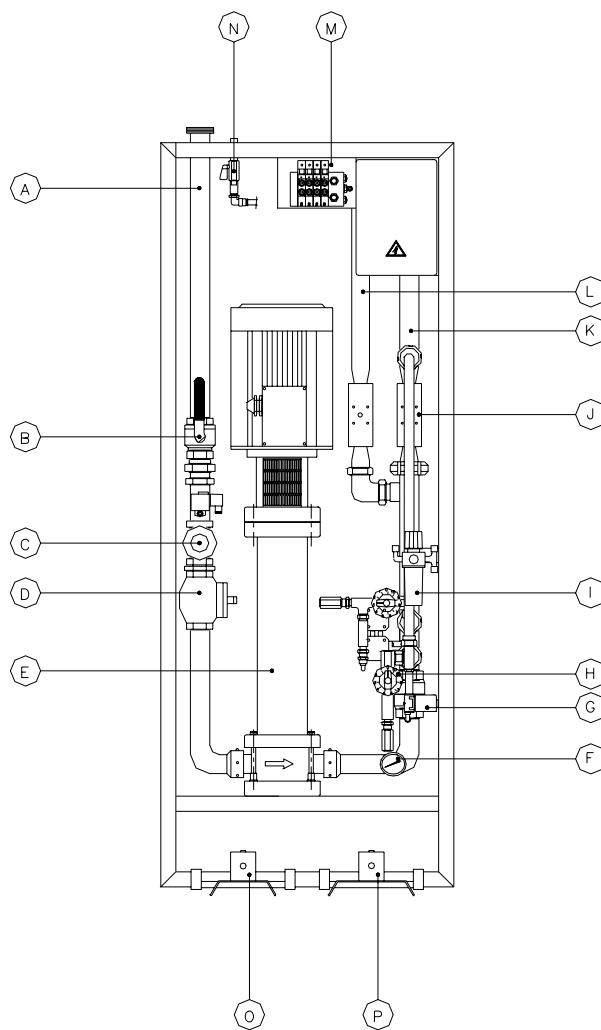


Fig. 5.1.2

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- | | | | |
|----|--------------------------------------|----|----------------------------------------------------------|
| A. | Supply water connection | J. | Valve with pneumatic actuator |
| B. | Closing valve, water | K. | Outlet pipe |
| C. | Strainer | L. | Satellite connection |
| D. | Flow switch | M. | Pilot valve |
| E. | Pump | N. | Air inlet valve |
| F. | Pressure gauge for water | O. | Automatic holder for P3
User Pack detergent (option) |
| G. | Solenoid valve | P. | Automatic holder for P3
User Pack sanitising (option) |
| H. | Dosing valve for
P3 Topax product | | |
| I. | Pressure regulator | | |

5.2 Start up Procedures

When all supply connections have been made as described in chapter 4, the station is ready to put into service.

CAUTION!

- a) Ensure that the P3 Topax controller is switched off.
- b) Open the supply water valve (B on layout drawing page 23) and fill the station with water. The station is now ready for operation.
- c) The dosing valve for P3 Topax product (F on layout drawing page 22, H on layout drawing page 23) is set on a scale value of approx. "4". The final adjustment of the valve is made during operation.
- d) The air pressure is set at 5 bar on the air pressure regulator (G on layout drawing page 22, I on layout drawing page 23), and is checked on the pressure gauge.

NOTE!

When setting the regulator carefully pull up the knob and turn it right for pressure increase and left for pressure decrease.

5.3 Directions during Operation

CAUTION!

If there are persons present in the cleaning areas, do not start the cleaning station. Starting the station may result in serious injuries or accidents.

CAUTION!

If production is running in the cleaning areas, do not start the cleaning station. Starting the station may pollute the produced products thus causing serious injuries or accidents.

- a) The automatic station is controlled by the P3 Topax Hygiene Controller and the installed programme.
- b) The foam must be examined and adjusted to the specific application by means of the air/concentration setting.
- c) Insufficient foam quality may result from:
 - too long pipes and/or too small pipe diameter
 - too low concentration of detergent
 - too hot supply water
 - insufficient amount of air and pressure
 - incorrectly designed nozzle sizes

5.4 Stop Procedures

- a) When bringing an end to the cleaning process or changing chemicals, it is recommended to rinse the suction and the injector system in the following way:
- Replace the P3 Topax can by a can with clean water.
 - Put the suction hose for P3 Topax product into the water can.
 - Run a short foaming programme, minimum 30 sec. and a 30 sec. sanitising programme.
 - Remove the suction hose from the water can.
- b) If satellites are connected, the electricity supply should remain switched on. The main station automatically goes "stand by" after approx. 40 sec. when all outlet valves are closed and no flow occurs in the flow switch.

CAUTION!

- c) For safety reasons, switch off the machine when out of use.

5.5 System Safety

- a) Closing valve for supply water (B on layout drawing page 23).

By means of this valve, it is possible to depressurise the main station. Further, a non-return valve is also built in.

- b) Simultaneous automatic and manual cleaning is not permitted, as the pump capacity might be exceeded and cause pump break-down.

- c) Closing valve for air supply (J on layout drawing page 22 and N on layout drawing page 23).

A manual closing valve is built into the air inlet for closure of the air supply.

- d) Solenoid valve for air (K on layout drawing page 22, G on layout drawing page 23).

The air supply in the injector is opened by the solenoid valve.

- e) A pressure gauge for air is installed together with the air filter. (Note that indication is only possible when the station is in cleaning mode).

6. Technical Specifications

6.0 Technical Data

Model	S 5000	S 6000
Max. operational pressure allowed	25 bar	25 bar
Pump pressure	--	21 bar + inlet pressure
Variable water volume	10 - 200 l/min.	10 - 100 l/min.
Maximum pressure of water supply	25 bar	4 bar
Minimum pressure of water supply	12 bar	2 bar
Motor consumption	--	50 Hz, 4 kW / 60 Hz, 3 kW
Nom. current	--	8.9 A
Setting of overload	--	8.9 A
Control voltage	24 V DC	24 V DC
Fuse requirements - mains	--	20 A or 16 A slow acting fuse
Electric cable	4 x 1.5 mm ²	4 x 2.5 mm ²
Weight	22 kg	135 kg
Dimensions H x W x D	710 x 460 x 267	1426 x 600 x 310
Max. pressure of air supply	10 bar	10 bar
Min pressure of air supply	6 bar	6 bar
Max. temperature of water supply	70°C	70°C

6.1 Identification Plate

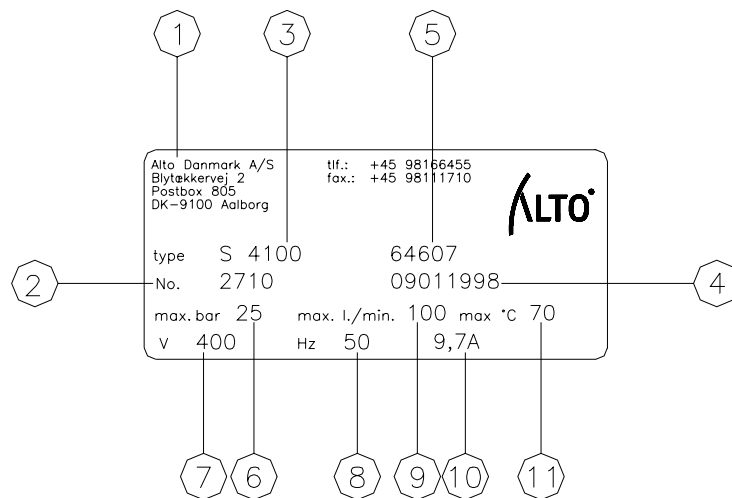


Fig. 6.1.1

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1. Producer
2. Serial number
3. Type
4. Date
5. Order number
6. Maximum pressure
7. Voltage
8. Frequency
9. Water volume
10. Consumption of ampere
11. Maximum temperature

7. Maintenance

7.0 Instructions

Depending on usage, at least once a year maintenance should be undertaken by an authorised service engineer in order to prevent defects and failure of operation. Authorised engineers are persons who due to their skills and experience have sufficient knowledge of P3 Topax Hygiene Systems and are confident with the state work safety regulations, accident preventing regulations, lines and generally acknowledged technical regulations such as DIN-norms and VDE-provisions. For your safety the cleaning station has been manufactured according to all relevant regulations valid within the EU and therefore it has been supplied with the CE-mark. For further information, please refer to the service department of Henkel-Ecolab.

Fault	Cause	Remedy
The station does not start up	Station not activated by the controller Fuse blown Power supply fault Fuse in the wiring box of the station blown Motor overload security in the wiring box of station	Activate push button Check fuse and replace if necessary Power supply to be checked by an expert Check fuse and replace if necessary Before switching on again, check cause of disconnection
The station does not build up pressure	Programme does not work correctly No water supply Direction of pump rotation incorrect	Check programme. Call Henkel-Ecolab for assistance if necessary Open supply valve for water Change direction of rotation as per instructions (arrow) on pump housing
Unstable or too low pump pressure	Insufficient water supply Strainer on inlet blocked	Ensure sufficient water supply Clean or replace filter
Quality of foam unsatisfactory	Type of product not suitable	Change to correct type of product

Fault	Cause	Remedy
Spreading of foam not uniform	<p data-bbox="587 607 983 678">Insufficient air supply to the station</p> <p data-bbox="587 719 922 790">Incorrect air pressure to station</p> <p data-bbox="587 831 967 938">Too high air pressure in injector (check air pressure on air pressure gauge)</p> <p data-bbox="587 978 935 1010">Incorrect nozzle installed</p> <p data-bbox="587 1050 906 1081">Injector nozzle blocked</p>	<p data-bbox="1015 607 1350 678">Provide sufficient air supply, 450 l/min., 5 bar</p> <p data-bbox="1015 719 1390 790">Adjust air pressure to 5 bar on pressure regulator</p> <p data-bbox="1015 831 1366 902">Reduce air pressure to 5 bar on pressure regulator</p> <p data-bbox="1015 978 1238 1010">Change nozzles</p> <p data-bbox="1015 1050 1302 1081">Clean injector nozzle</p>
No spreading of foam	<p data-bbox="587 1106 983 1178">Non-return valve for product blocked</p> <p data-bbox="587 1218 930 1290">Dosing valve for product blocked</p> <p data-bbox="587 1330 922 1402">Suction filter for product blocked</p> <p data-bbox="587 1442 946 1514">Suction hose is not below product level</p>	<p data-bbox="1015 1106 1326 1137">Clean or replace valve</p> <p data-bbox="1015 1218 1326 1249">Clean or replace valve</p> <p data-bbox="1015 1330 1310 1361">Clean or replace filter</p> <p data-bbox="1015 1442 1334 1514">Put suction hose below product level</p>
No build-up of compressed air	<p data-bbox="587 1532 959 1603">Inlet valve for compressed air is closed</p> <p data-bbox="587 1644 919 1751">Solenoid valve for compressed air blocked or malfunctioning</p>	<p data-bbox="1015 1532 1286 1603">Open inlet valve for compressed air</p> <p data-bbox="1015 1644 1366 1715">Clean or replace solenoid valve</p>

7.2 Recommended Spare Parts

S 6000

For Pos. No.	Article No.	Description	Number
7	606050	Service kit for flow switch	1
11	850802	Service kit for CRN4-220 pump	1
13	659000	Pressure gauge for water	1
53	350250	Service kit for automatic holder	1
54	350250	Service kit for automatic holder	1

S 5000

For Pos. No.	Article No.	Description	Number
28	350250	Service kit for automatic holder	1
29	350250	Service kit for automatic holder	1

P3 User Pack

Pos. No.	Article No.	Description	Number
1	350211	VS-ring	1
4a	350602	Suction filter	1

8. Components

8.0 Exploded Drawings of Stations with Spare Parts List

S 5000

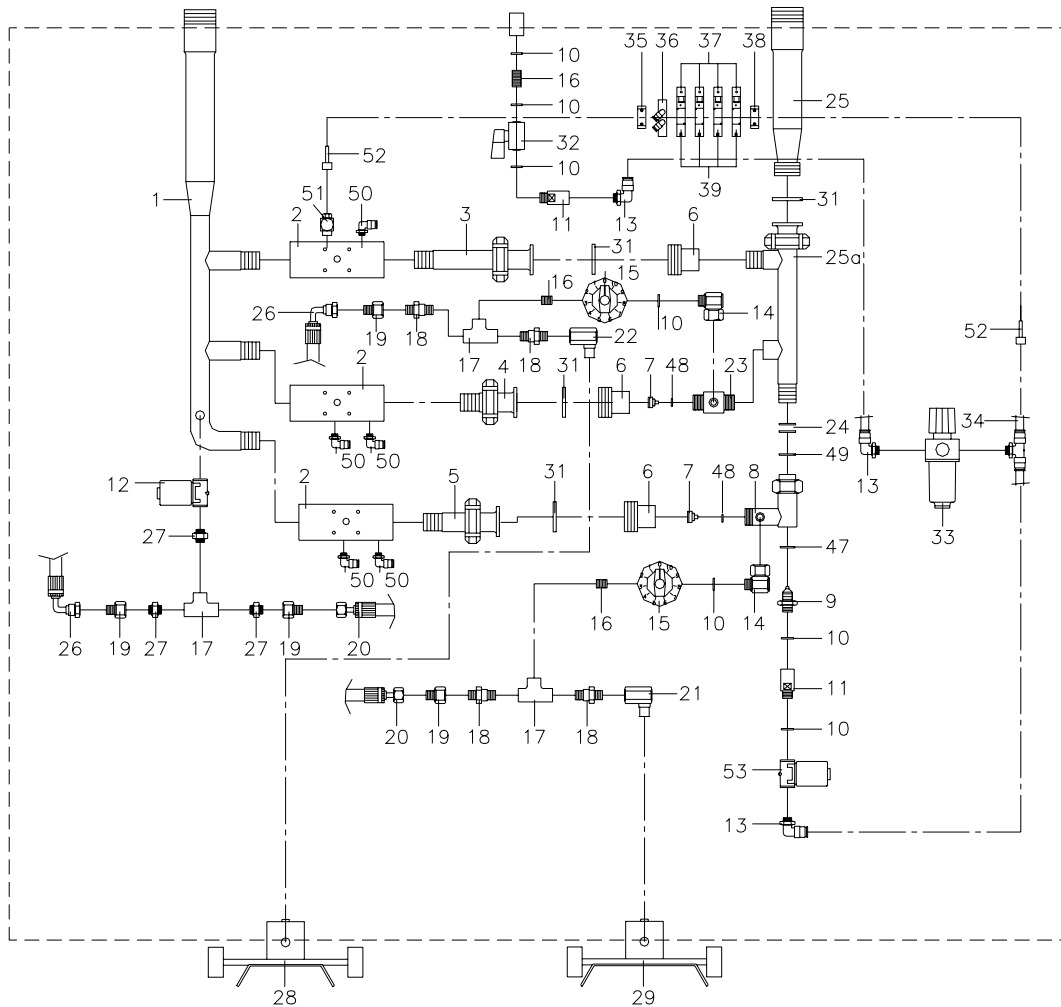


Fig. 8.0.1

17032

Spare Parts List S 5000

Pos. No.	Article No.	Description	Number
1	332000	Manifold, inlet S 5000	1
2	67930000	Ball valve with actuator 1/2"	3
3	353000	1/2 union part/Water	1
4	353050	1/2 union part/sanitising	1
5	353100	1/2 union part/Detergent	1
6	353150	Threaded 1/2 union part	3
7	640401	Detergent nozzle for injector (150 l/min.)	1
7	640404	Detergent nozzle for injector (450 l/min.)	1
8	639600	Injector housing	1
9	640300	Air nozzle (150 l/min.)	1
9	64030000	Air nozzle (450 l/min.)	1
10	638100	Gasket 1/4"	6
11	640000	Non-return valve for air	2
12	636120	Solenoid valve	2
13	638500	Air fitting, angle	3
14	647300	Elbow with union 1/4"	2
15	647804	Dosing valve for detergent, complete	2
16	647900	Nipple pipe 1/4" SMSK	2
17	924500	Tee 1/4"	3
18	648050	Non-return valve for detergent	4
19	659100	Threaded connection for gauge	2
20	353200	Hose, rinse/detergent	1
21	647700	Elbow 1/4" SS for detergent	1

Pos. No.	Article No.	Description	Number
22	647703	Elbow 1/4" SS for sanitising	1
23	639900	Special injector	1
24	640600	O-ring for injector	2
25	353400	Outlet pipe	1
25A	353300	Manifold, outlet	1
26	353210	Hose, rinse/sanitising	1
27	633500	Hexagon nipple 1/4"	2
28	3-HOLD-L	Automatic can holder, sanitising	1
29	3-HOLD-R	Automatic can holder, detergent	1
30	632700	Air coupling 1/4"	1
31	939904	O-ring	4
32	634000	Closing valve for air 1/4"	1
33	635650	Air filter/regulator w. pressure gauge	1
34	638601	Air fitting 1/4" x 8 mm, tee	1
35	530300	End block CKD.NE2	1
36	530600	Supply/exhaust block	1
37	530200	Solenoid valve 24 V/DC	3(4)
38	530400	End block CKD.NE1	1
39	530500	Bottom plate CKD	3(4)
47	639100	Gasket for air nozzle	1
48	640500	O-ring for chemical nozzle	2
49	639700	Spring-ring	1
50	359500	Air fitting 1/8 x 4 mm	5
51	636300	Needle valve	1
52	638900	Fitting f. air reduction 1/8 x 4 mm	2

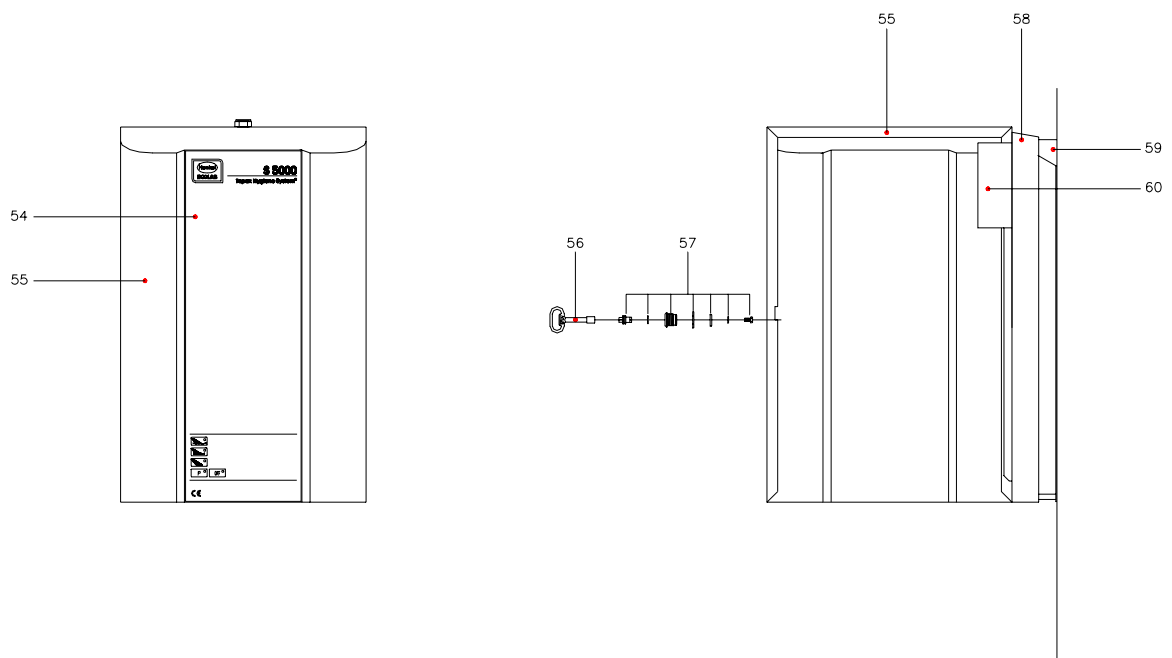


Fig. 8.0.2

17033

Pos. No.	Article No.	Description	Number
40	410500	Label for S 5000	1
41	360701	Cabinet door for S 5000	1
42	652000	Key for lock	1
43	65185000	Lock for cabinet	1
44	360702	Frame for cabinet	1
45	360800	Wall bracket for cabinet	1
46	310550	Electric box	1

S 6000

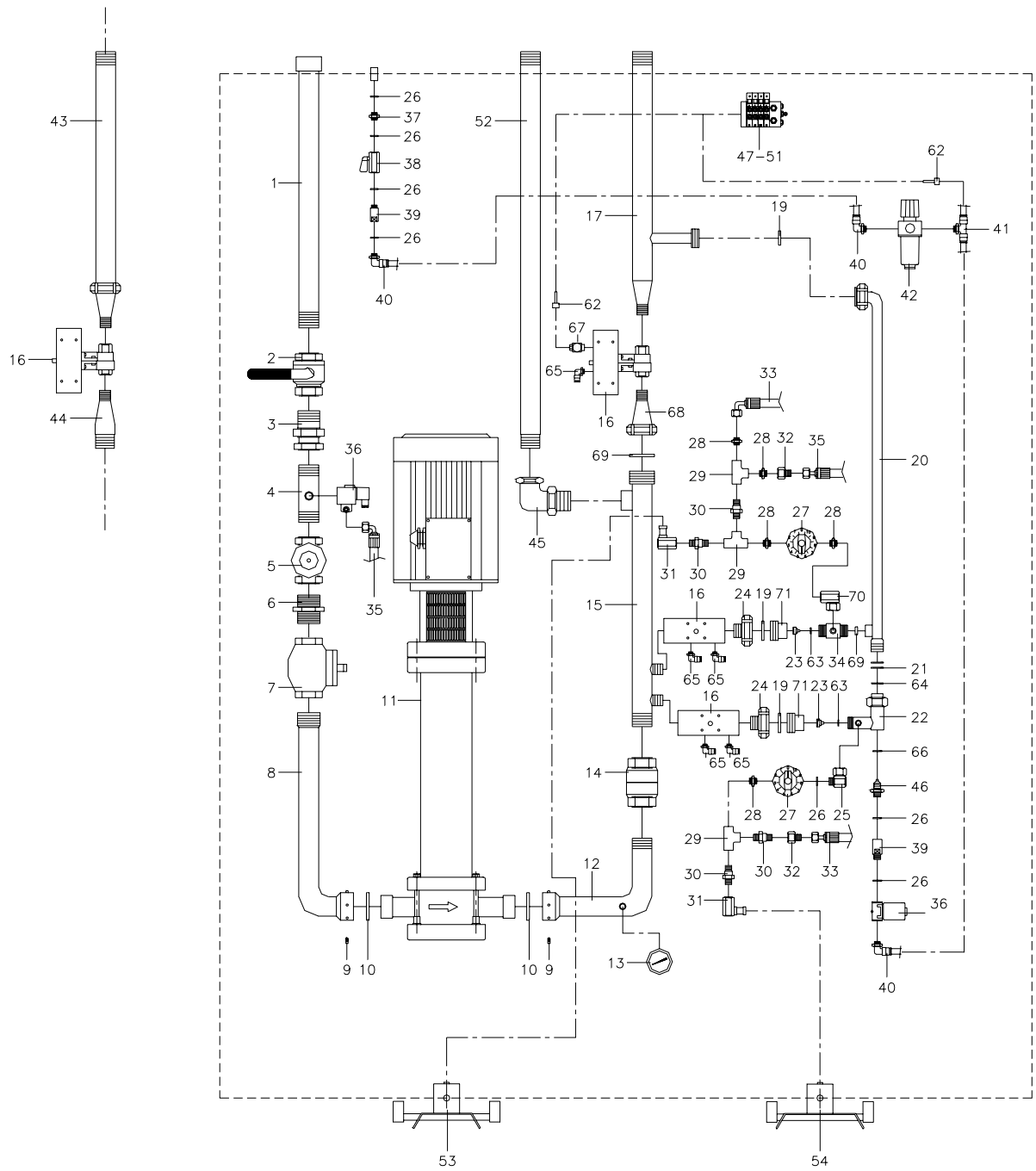


Fig. 8.0.3

17024

Spare parts List S 6000

Pos. No.	Article No.	Description	Number
1	333000	Inlet pipe 1 1/4"	1
2	600500	Closing valve 1 1/4"	1
3	601300	Union 1 1/4"	1
4	33010	Connection pipe 1 1/4"	1
5	601500	Strainer 1 1/4"	1
6	929000	Hexagon nipple 1 1/4" x 1 1/2"	1
7	606000	Flow switch	1
8	330500	Pump inlet	1
9	603600	Allen screws	4
10	603700	O-ring for pump coupling	2
11	850800	Pump CRN4-220	1
12	351300	Pump outlet	1
13	659000	Pressure gauge, water	1
14	630900	Non-return valve 1 1/4"	1
15	354001	Pipe manifold, outlet S 6000	1
16	67930000	Ball valve with actuator	4 (3)
17	354010	Outlet pipe S 6000	1
19	939904	O-ring	1
20	354030	Chemical manifold, outlet	1
21	640600	O-ring for injector housing	2
22	639600	Injector housing	1
23	640401	Nozzle for detergent (150/450 l/min.)	1
24	354041	Union/outlet	2
25	647300	Elbow with union	2

Pos. No.	Article No.	Description	Number
26	638100	Gasket 1/4"	5
27	647804	Dosing valve for detergent	2
28	633500	Hexagon nipple 1/4"	4
29	924500	Tee 1/4"	3
30	648050	Non-return valve for P3 Topax products	5
31	647700	Elbow for detergent	2
32	659100	Threaded connection	1
33	646200	Hose for injector rinsing	1
34	639900	Special injector	1
35	658911	Hose for injector rinsing	1
36	636120	Solenoid valve for injector rinsing	2
37	642200	Socket 1/4"	1
38	634000	Closing valve for air	1
39	640000	Non-return valve for air	2
40	638500	Air fitting, angle 1/4 x 8 mm	2
41	638601	Air fitting, tee	1
42	635650	Air filter/regulator with pressure gauge	1
43	354050	Satellite outlet A-kit (option)	1
44	354060	Distance pipe A-kit (option)	1
45	693900	Elbow w. union, 1"	1
46	640300	Air nozzle (150 l/min.)	1
46	64030000	Air nozzle (450 l/min.)	1
47	530300	End block CDK.NE2	1
48	530600	Supply/exhaust block	1
49	530200	Solenoid valve 24 V/DC	3(4)

Pos. No.	Article No.	Description	Number
50	530400	End block CDK.NE1	1
51	530500	Valve block	3(4)
52	354020	Outlet pipe/satellite connection	1
53	350250	Service kit for Automatic Holder	1
54	350250	Service kit for Automatic Holder	1
62	638900	Fitting f. air reduction 1/8" x 4 mm	2
63	640500	O-ring for chemical nozzle	2
64	639700	Spring-ring	1
65	359500	Air fitting 1/8 x 4 mm	5
66	639100	Gasket for air nozzle	1
67	636300	Needle valve	1
68	354005	Union part	1
69	354031	Bush ø 15 x 5 mm	1
70	647750	Angle w. union 1/4" x 12,5 mm	1
71	354042	Union part	1

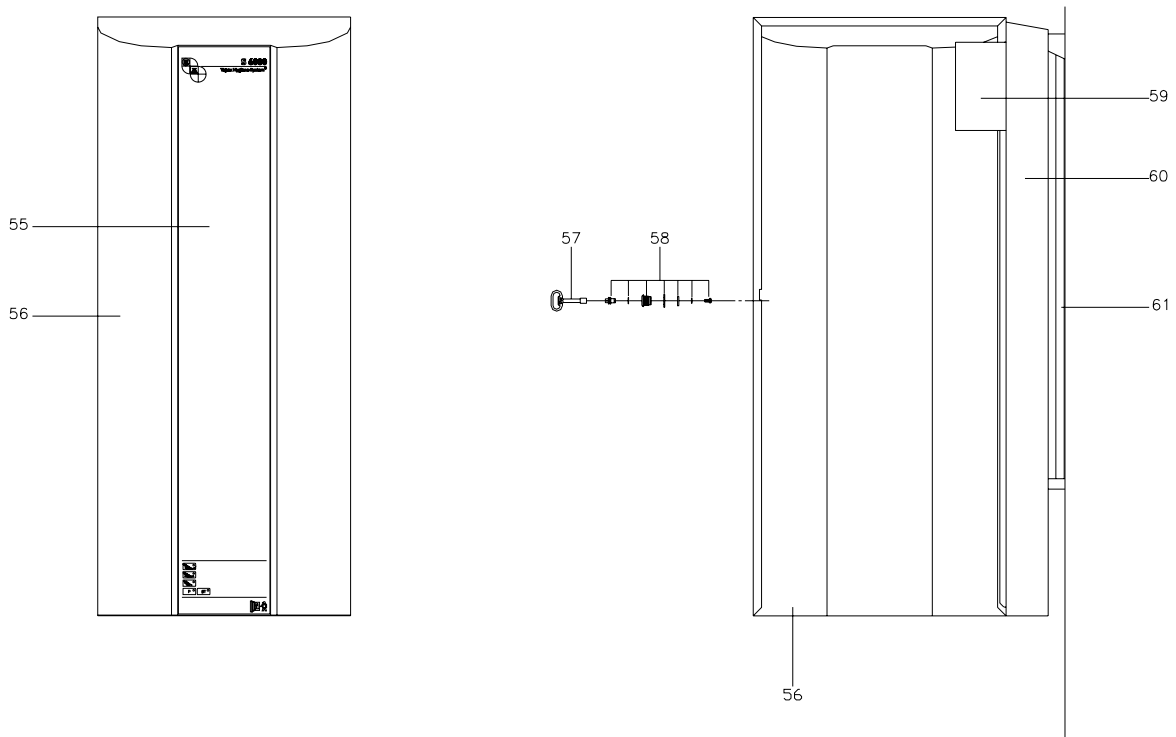


Fig. 8.0.4

17029

Pos. No.	Article No.	Description	Number
55	410700	Label for S 6000	1
56	361101	Cabinet door for S 6000	1
57	652000	Key for lock	1
58	65185000	Lock for cabinet	1
59	310550	Electric box	1
60	361102	Frame for cabinet	1
61	360100	Wall bracket for cabinet	1

8.1 Drawing of P3 User Pack with Spare Parts List

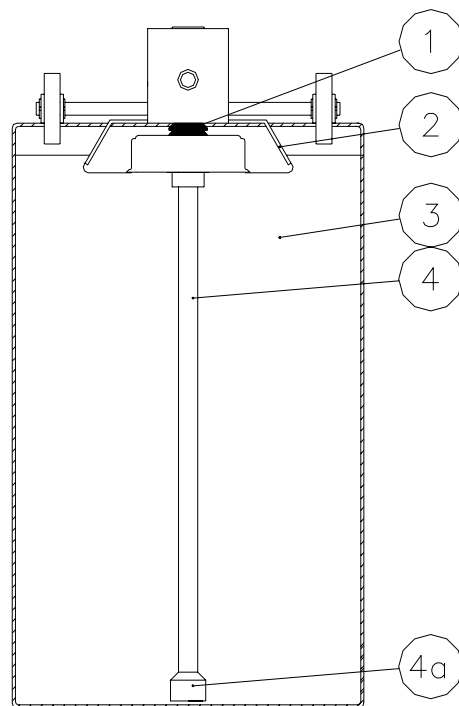


Fig. 8.1.1

17026

Pos. No.	Article No.	Description	Number
1	350211	VS-ring	1
2	4-HOLD-R	Holder for P2 User Pack detergent	1
2	4-HOLD-L	Holder for P3 User Pack sanitising	1
3	S-CAN-R	P3 User Pack detergent	1
3	S-CAN-L	P3 User Pack sanitising	1
4	350600	Suction pipe	1
4a	350602	Suction filter	1

9. Warranty

ATTENTION!

Our guarantee is given for a period of 12 months from delivery on all parts which have provable become unfit for use due to material, construction or manufacturing defects as well as inadequate work. The guarantee compensation will occur in the shape of either reimbursement, replacement or repair of the defective or damaged part at our works. Installation and freight costs are always on the purchaser's account. Any defective parts are to be placed at our disposal. Claims that may otherwise be raised for any legal reason will not be acknowledged. No liability will be accepted for damage occurred indirectly. The purchaser has no right to let any third party repair possible defects on our account.

All hoses, rubber parts or synthetic materials, natural wear and tear as well as damage caused by careless and inappropriate handling, including transport damage are not covered by the guarantee. Further, the guarantee does not apply if the system has been subjected to frost. The obligation of guarantee compensation also ceases if changes or repairs are made by non-authorized persons. Claims under the guarantee will only be acknowledged when they are placed immediately after the defect has been noticed. The guarantee ceases in case of change of ownership.

The dealer cannot be held responsible for personal injury, damage to equipment, working deficits, including production loss, loss of profits, loss of stock or the like which may occur by imperfect and delayed delivery of the sold product, regardless of the reason, including manufacturing and material defects. Please see our standard terms of sale and delivery.

10. User Service

10.0 International Henkel-Ecolab Address List

European Operation

Headquarter

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Fax: (49) 211 98 93 223 *Note! all fax numbers are P3-numbers*

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Fax: (43) 1 71 52 55 08 51

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Fax: (41) 61 46 69 444

Turkey

Henkel Kurumsal
Temizleme Sistemleri AS.
Koresehitteri Caddesi
Yüzbasi Kaya Aldogan Sokak No. 9
80300 Zincirlikuyu Istanbul

Phone: (90) 21 22 75 07 68-69
Fax: (90) 21 22 75 09 99

EC Declaration of Conformity

Manufacturer:

Company Name: Alto Danmark A/S
Address: Blytækervej 2
9100 Aalborg
Danmark
Tel.: 98166455

hereby declare that

Machine:

No.: S5000
Name: P3-Topax Hygiene System
Type: S 5000
Year: 1998

- is in conformity with:

the COUNCIL DIRECTIVE of 14 June 1989 on mutual approximation of the laws of the Member States on the safety of machines (89/392/EEC as amended by directives 91/368/EEC, 93/44/EEC and 93/68/EEC) with special reference to Annex 1 of the Directive on essential safety and health requirements in relation to the construction and manufacture of machines.

- COUNCIL DIRECTIVE of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility (89/336/EEC)

- COUNCIL DIRECTIVE of 19 February 1973 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits (73/23/EEC)

was manufactured in conformity with the following national standards that implements a harmonised standard:

EN 292-1
Basic terminology, methodology
EN 292-2
Technical principles and specification
EN 60204-1
Safety of Machinery. Electrical requirements of machines

Name: John Holm Espersen
Company: Alto Danmark A/S

Mar 9, 1998



Date

Signature

EC Declaration of Conformity

Manufacturer:

Company Name: Alto Danmark A/S
Address: Blytækervej 2
9100 Aalborg
Danmark
Tel.: 98166455

hereby declare that

Machine:

No.: S6000
Name: P3-Topax Hygiene System
Type: S 6000
Year: 1998

- is in conformity with:

the COUNCIL DIRECTIVE of 14 June 1989 on mutual approximation of the laws of the Member States on the safety of machines (89/392/EEC as amended by directives 91/368/EEC, 93/44/EEC and 93/68/EEC) with special reference to Annex 1 of the Directive on essential safety and health requirements in relation to the construction and manufacture of machines.

- COUNCIL DIRECTIVE of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility (89/336/EEC)

- COUNCIL DIRECTIVE of 19 February 1973 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits (73/23/EEC)

was manufactured in conformity with the following national standards that implements a harmonised standard:

EN 292-1
Basic terminology, methodology
EN 292-2
Technical principles and specification
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Safety of Machinery. Electrical requirements of machines

Name: John Holm Espersen
Company: Alto Danmark A/S

Mar 9, 1998



Date

Signature