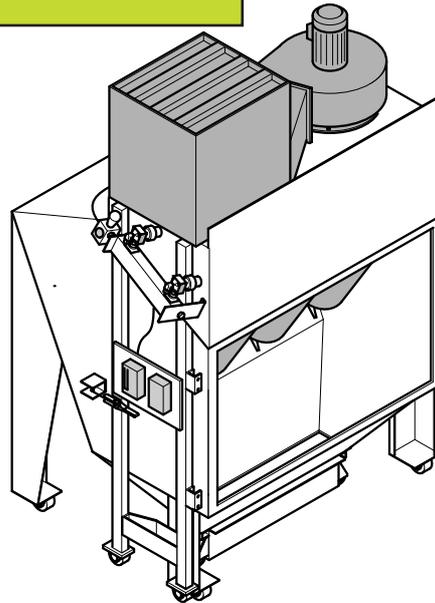




# Binks Sames

## INSTRUCTIONS MANUAL

From February 1st, 2017 SAMES Technologies SAS becomes SAMES KREMLIN SAS  
A partir du 1/02/17, SAMES Technologies SAS devient SAMES KREMLIN SAS



### UNIVERSAL FV 6000 MODULE (Ang)

**Ventilation and filtration module with recycling system for connection to a powder booth**

**Nb 1 500 987**

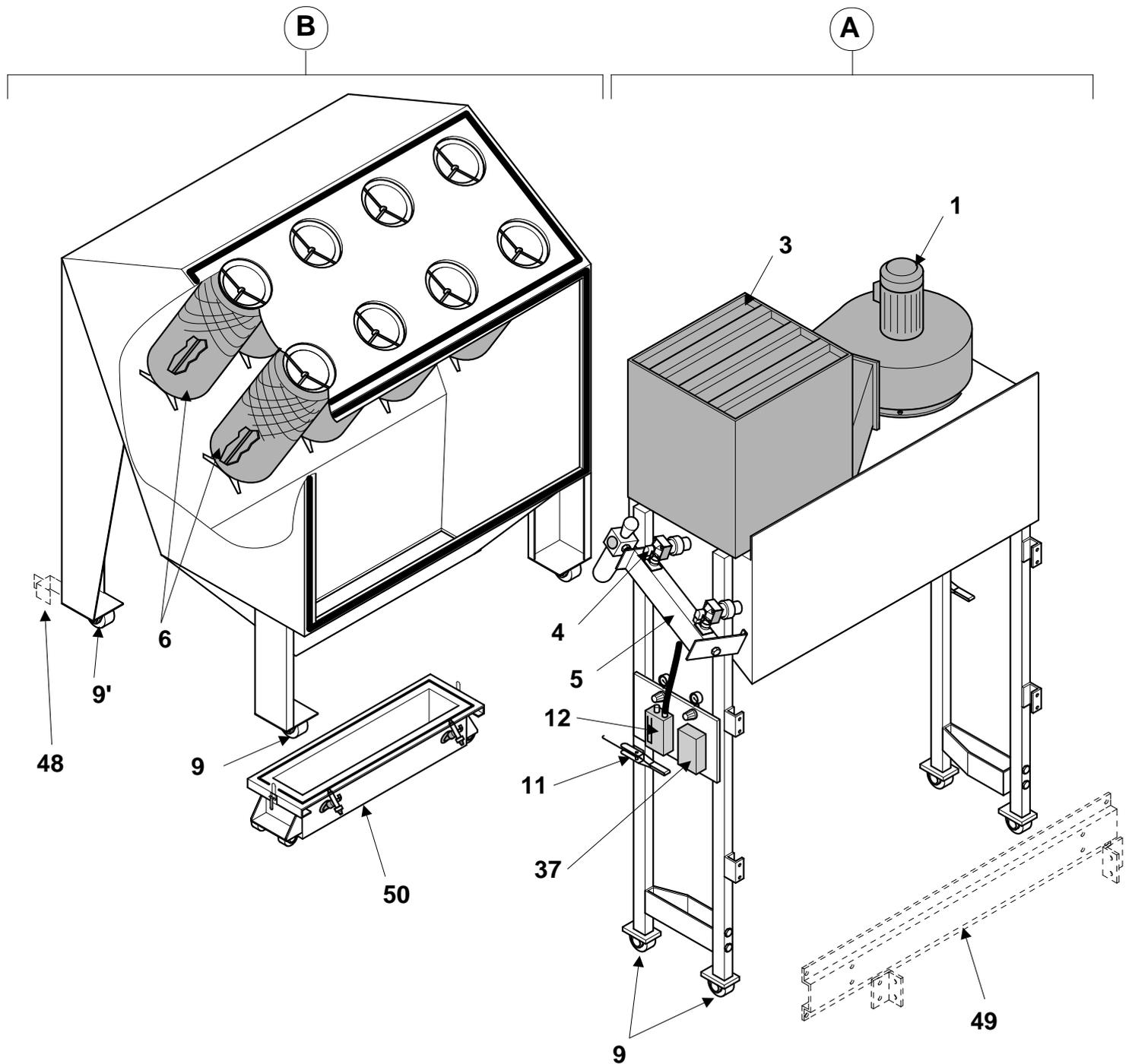
Nature of the modification : creation of the document.

established by : <b>DE LUCA Ph.</b>	checked by : <b>FOSSACECA M.</b>	checked by :	approved by : <b>VEYRAT D.</b>
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SAMES is not bound by the information and characteristics given in this instructions manual and reserves the right to modify its equipment, their characteristics and accessories without prior notice.



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# 1 - DESCRIPTION OF THE UNIVERSAL FV 6000 MODULE

## 1.1 - DESCRIPTION

The module is a ventilation (**A**) and filtration (**B**) caisson **only for use** with a powder coating booth.

This apparatus is in a powder booth which itself forms part of a surface coating installation.

The incorporation declaration and the conformity plaque have to be supplied for the whole powder coating booth.

The ventilation caisson (**A**) comprises a ventilator (**1**), a pneumatic unclogging system for the filtering cartridges (**6**), an evacuation duct for the purified air (**3**) with sound insulation device integrated.

The ventilation caisson is mounted on four feet, equipped with fixed wheels (**9**). Two of which are mechanically fixed by screws to the powder booth.

The detachable filtration caisson (**B**) is mounted on four wheels (two fixed wheels (**9**) and two swivel wheels (**9'**)) with a directional locking system (**48** - option) mounted on the two swivel wheels in the case of a travelling booth.

A connecting kit (**49**) to the powder coating booth is available in option.

This filtration caisson contains eight filtering cartridges (**6**) and a powder recuperation system. The low part of the filtration caisson (**B**) allows powder recuperation in the hopper (**50**).

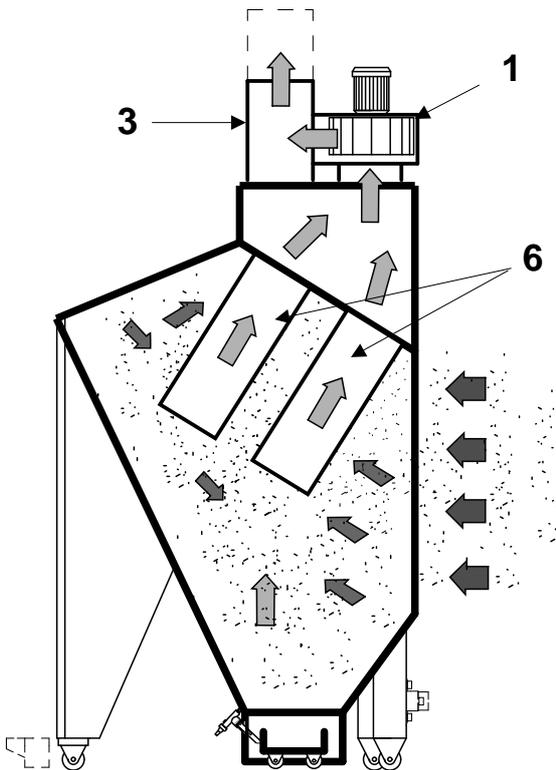
The cartridge holder is mechanically connected to the powder booth by means of a fast connect/disconnect system (**11**).

A control panel for the different functions of the universal **FV 6000** module is mounted in the control desk.

A differential pressostat (**12**) shows the unclogging degree of the filtering cartridges and if the ventilation is insufficient.

An unclogging sequencer (**37**) is for regulating the opening frequency of the electrovalves.

## 1.2 - OPERATING PRINCIPLE



The **UNIVERSAL FV 6000** module, **only for use with a powder booth**, permits the suction and filtering of the powder-charged air.

The air is put into movement by means of a ventilator (1). The powder charged air from the booth is filtered as it passes through the cartridge filters (6).

The air thus filtered crosses the ventilator (1), then the silencing system (3) before being evacuated into the work place or collected by an extraction duct.

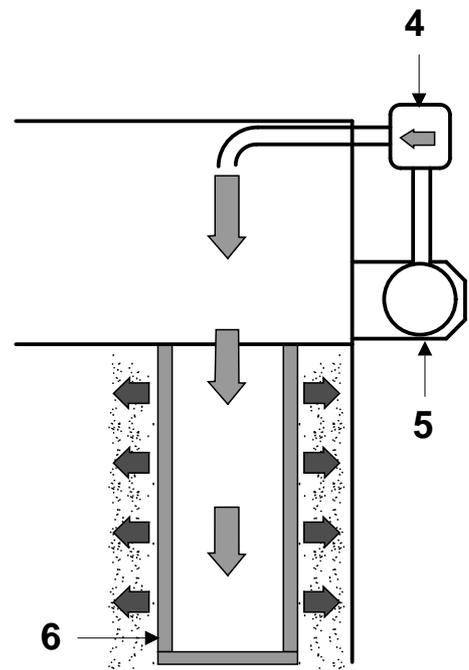
The powder retained by the cartridge filters is deposited around the filters which must be cleaned periodically in order to maintain a sufficient ventilation.

This cleaning function is carried out by the pneumatic unlogging of the cartridge filters.

Unlogging occurs by creating an air stream in the direction opposite to the ventilation air flow in each cartridge filter.

In other words, the unlogging air is stocked at a pressure of approximately 5 Bar in the air tank (5) and released into the filter cartridges when the electro-pneumo valves (4) are opened.

The differential pressostat (12) authorises the opening of the electro-pneumo valves when the difference in the pressure value between the up and down stream of the cartridge filter reaches a first threshold predetermined between 75 mm and 95 mm water column.



This differential pressostat warns the operator of any default (insufficient air flow) when the difference in pressure between the up and down stream of the filter cartridge reaches a second threshold predetermined between 110 mm and 130 mm water column.



**1.3.4 - Technical characteristics**

	<b>UNIVERSAL C 6000 connected to MCC 6000</b>	<b>UNIVERSAL C 7500 connected to MCC 7500</b>	<b>UNINERSAL FV 6000</b>	<b>UNINERSAL FV 8000</b>
<b>Ventilator motor</b>				
. Power (kW)	7.5	9.2	7.5	7.5
. Electrical supply (V)	220 / 380 three-phased with ground	220 / 380 three-phased with ground	220 / 380 three-phased with ground	220 / 380 three-phased with ground
<b>Floor space - weight</b>				
. Floor space (m)	approx. 2.1 x 1.7	approx. 2.1 x 1.7	approx. 2.1 x 1.45	approx. 2.1 x 1.45
. Height (m)	approx. 2.9	approx. 3.1 m	approx. 3 m	approx. 3 m
. Weight (kg)	approx. 750	approx. 800	approx. 750	approx. 750
<b>Cartridges filters</b>				
. Number	8	4 - 4	8	4 - 4
. Lenght (mm)	660	660 - 1000	660	660 - 1000
. Total filtering surface (m2)	168	212	168	212
<b>Air consumption</b>				
. For unclogging (m <sub>0</sub> <sup>3</sup> /h)	18	18	18	18
. For fluidization (m <sub>0</sub> <sup>3</sup> /h)	-	-	18	18
. For transport of powder (m <sub>0</sub> <sup>3</sup> /h)	-	-	12	12
Total consumption	18	18	48	48
. Air flow (m3/h)	6000	7500	6000	8000

## **2 - INSTALLATION OF THE UNIVERSAL FV 6000 MODULE**

### **2.1 - REGULATIONS AND PRECAUTIONS TO BE TAKEN**

#### **2.1.1 - Electrical and annexed connections**

The universal **FV 6000** module must be electrically connected to the ground. Make sure that the powder booth itself is connected electrically to the ground.

It is necessary that the ventilation of the caisson and the other electrical installations of the booth connected to the caisson on the other hand, can be put into and out of operation separately.

Powder spraying in the booth connected to the caisson should only be able to take place if the ventilation system of the caisson is working. It must stop if the ventilation system stops working.

#### **2.1.2 - Ventilation flow**

In application of french rules :

- the ventilation flow of the powder booth has to be such that the powder concentration in the atmosphere of the booth must not be above half the minimum explosive concentration of the most sensitive powders for which the booth was designed,
- in practise, the minimum explosive concentration of thermoplastic powders or thermosetting powders is always above  $20 \text{ g/m}^3$ ; so to conform to regulations in force, the powder concentration in the air must not go over  $10 \text{ g/m}^3$ ,
- powder concentration in the booth atmosphere can be estimated by calculating the total flow of all the powder sprayers with respect to the ventilation flow of the caisson (1.3 "technical specifications").

#### **2.1.3 - Installation of the module and the corresponding powder booth**

The universal **FV 6000** module as well as the booth connected to this module, must not be used as supporting elements for the building or part of the building.

The module has been installed by a professional installer. It is imperative to follow this installer's instructions if any modifications have to be done to the module.

#### **2.1.4 - Noise emission**

As the continuous acoustic pressure level equivalent to the work stations depends on parameters other than the construction of the module, one should refer to the installation's operating manual on noise emissions in work stations.

### 2.1.5 - Dust evacuation

French rules impose  $5 \text{ mg/m}^3$  as a maximum average concentration of atmosphere dust inhaled by a person calculated over a period of eight hours and for alveolated dust having no specific effects on the human organism.

The cartridge filters equipping the caisson guarantee, whatever the powder granulometry, a powder concentration in the evacuated air lower than  $3 \text{ mg/m}^3$ .

Therefore, if the cartridge filters are in a good condition and have been correctly fitted, the powder concentration in the air of the work place where the module is situated, will always be lower than  $3 \text{ mg/m}^3$ . If the granulometry of the powder used is known, **SAMES** can supply on demand more precise information concerning powder concentration in the evacuated air.

## 2.2 - INSTALLATION OF THE UNIVERSAL FV 6000 MODULE

### 2.2.1 - Connections and various fittings

#### *A - Placing the cartridge holder*

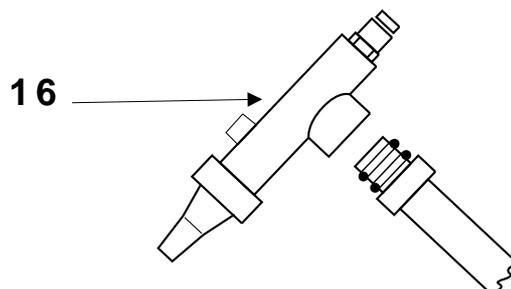
The cartridge holder (**B**) is mounted under the ventilation caisson (**A**). The cartridge holder is fixed to the powder booth by means of fast connectors/disconnectors (**11**).

#### *B - Tightness seal between the support side of the caisson and the booth*

The square seal (**10**) has an auto-adhesive side and has to be stuck on the cartridge holder.

#### *C - Connection of the suction plunger*

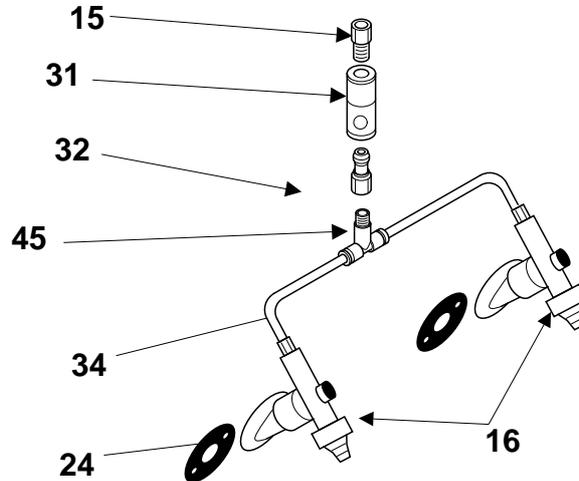
The suction plunger (**16**) has to be connected to the base of the cartridge holder in a sleeve which itself has two tightness seals (see plunger's part list page 23).



## 2.2.2 - Pneumatic connections

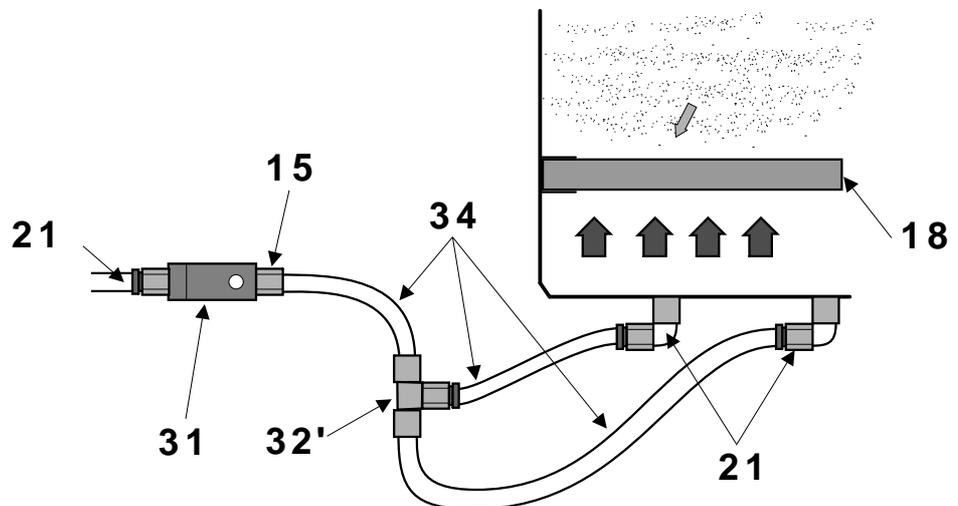
### A - Pneumatic connection of the suction plunger

A rilsan hose (ext. dia 8 mm) (34) has to be connected to the pneumatic connection of the suction plunger and to the connector of the recycling regulator mounted on the module's control panel.



### B - Pneumatic connection of the porous bottom

A rilsan hose (ext. dia 8 mm) (34) has to be connected to the pneumatic air supply (21) of the porous bottom (18) and to the fluidisation regulator mounted on the module's control panel.



## 2.2.3 - Electrical connections

### A - Ventilator motor supply

To electrically connect the motor, see general electrical wiring drawing.

**CAUTION :** One must check that the motor rotates as indicated by the arrow affixed on the top of the ventilator motor.

### B - Electropneumovalves supply

Connect the line cords of the electropneumovalves to the sequencer (see general electrical wiring drawing).

### 3 - OPERATING THE FV 6000 MODULE

#### 3.1 - OPERATING AND PRELIMINARY ADJUSTEMENTS

##### 3.1.1 - Unclogging adjustment of the cartridge filters

Unclogging of the eight cartridge filters is carried out one at a time.

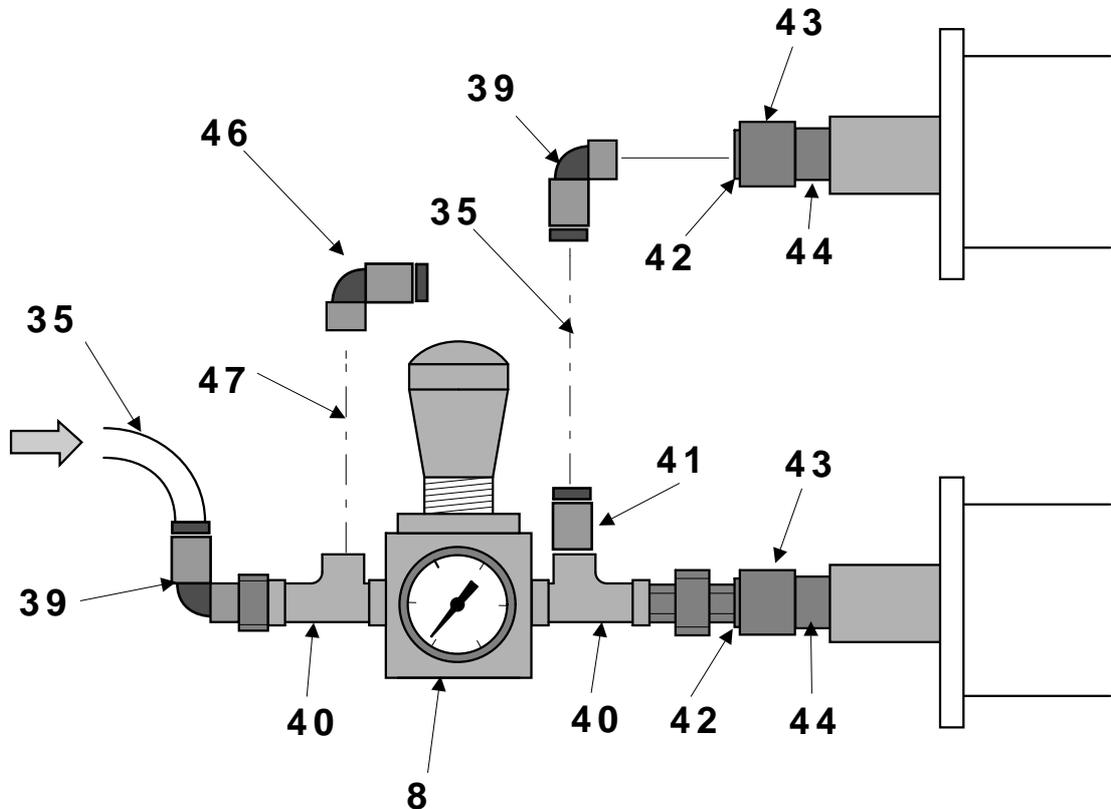
An unclogging cycle is the succession of four uncloggings corresponding to the eight cartridge filters.

Duration adjustment of the opening of the electropneumovalves :

The opening duration of the electropneumovalves is adjusted on the **SF 08-P** sequencer (see adjustment procedure paragraph 3.1.2).

The serviceable pressure is preset at 5 bar by the manual release valve (8).

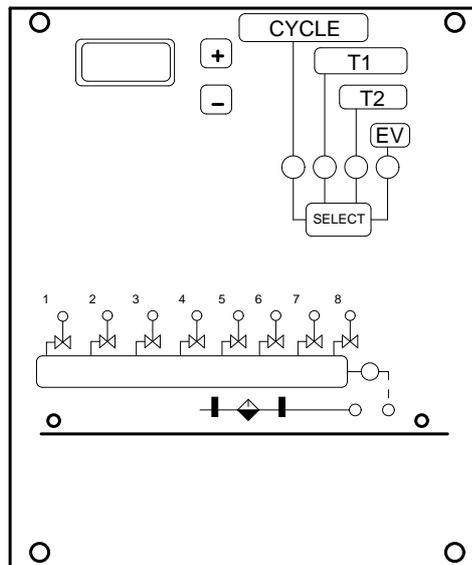
Adjustment has to be done by **SAMES** the first time the apparatus is put into operation.



### 3.1.2 - Adjustment of the unclogging function

Adjusting the opening frequency of the electro valves with the type **SF 08-P** sequencer.  
Adjustment of the parameters :

- Press the **SELECT** key for required position.
  - 1st selection: **CYCLE POSITION** : option not used.
- Press the **SELECT** key again :
  - 2nd selection (yellow **T1** led ON) : adjust **T1** time (unclogging electrovalve opening time has run out).
    - . Adjust the **T1** value with + and - keys.
    - . The value is displayed in 100 ms.
    - . Opening duration has to be comprised between 15/100 and 20/100 ms.
- Press the **SELECT** key again :
  - 3rd selection (yellow **T2** led ON): adjust **T2** time (time between each unclogging).
    - . Adjust the **T2** value with + and - keys.
    - . The value is displayed in seconds.
    - . Time between each unclogging has to be adjusted between 10 and 15 seconds.
  - 4th selection (yellow electrovalve led ON): Adjustment of the number of outputs = 4 (4 unclogging electrovalves).
    - . Adjust the electrovalve value with the + and - keys.
- Press the **SELECT** key again to end the cycle.



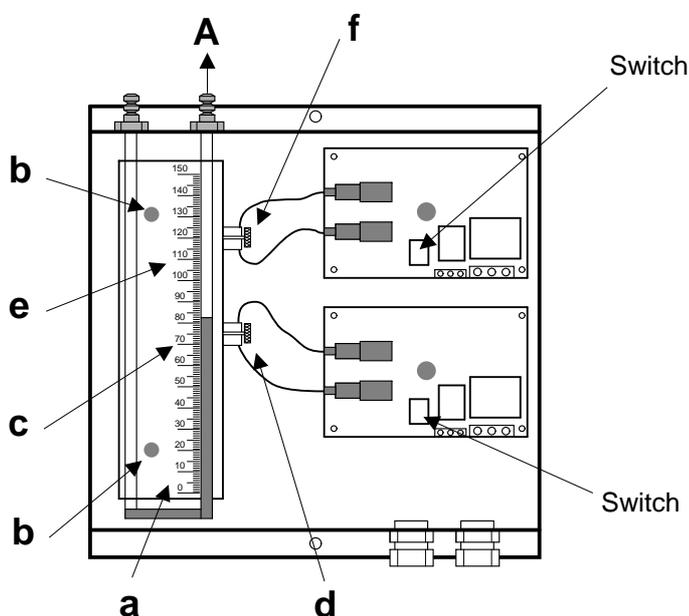
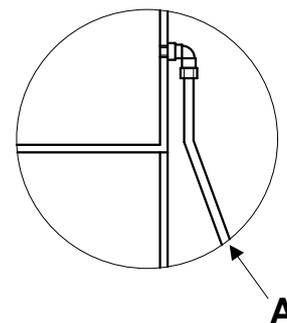
### 3.1.3 - Adjustment pressostat

Check the switch is in the right position (red) : unclogging is authorised when the manometric liquid, going upwards in the tube, goes over the red mark of the cursor (the red diode lights up).

**CAUTION :** The manometric liquid to be used must not be different from that indicated in these instructions (see list of spare parts).

The manual pressostat (12) permits :

- 1) to control the unclogging of the cartridge filters,
- 2) to authorize the unclogging of the cartridge filters,
- 3) to prevent any abnormally high unclogging of the cartridge filters.



Preliminary adjustment : the manual pressostat must be zeroed when the ventilator is not working.

To do this adjust figure "0" on the graduated ruler (a) at the summit of the fluid column after having loosened the knurled knobs (b).

If necessary add some manometric liquid to the manometer's tank (see spare parte list).

Authorization to unclog the cartridges is given by means of cursor (c). After having loosened the knurled knob (d) adjust the red mark at a value between 75 mm and 95 mm water column.

The threshold indicating an abnormally high unclogging of the cartridge filters is adjusted by means of cursor (e).

After having loosened knurled knob (f), adjust the red mark at a value between 110 and 130 mm water column. Refer to the instructions on the installation for more information on this default detection.

Control of the cartridge unclogging is obtained by means of the read-out of the height of the DELTA P liquid (expressed in millimeters of water column).

When the cartridge filters are new, DELTA P is equal to about 20 mm water column; the ventilation flow thus reaches 8100 m<sup>3</sup>/h.

After several hours use, DELTA P stabilises at a value between 75 and 105 mm water column.

Ventilation flow is thus comprised between 6600 m<sup>3</sup>/h and 6150 m<sup>3</sup>/h.

### 3.1.4 - Operating the cartridge filters

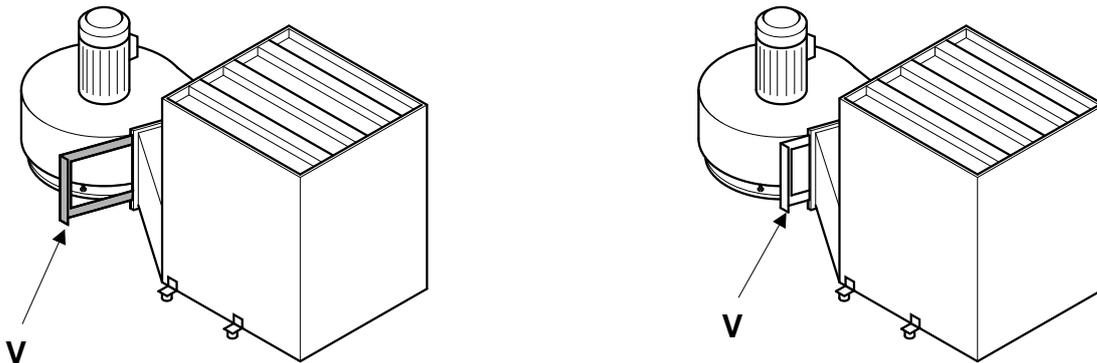
**To be done each time the installation is put into operation and each time the filters are changed.**

- Don't put the unclogging function into operation for the manual control mode.

Place the flap (V) in the outwards position (see sketch below).

- Read the voltage drop of the cartridges (DELTA P) on the manometer in U or on the pressostat (depending on the equipment). This has to be about 10 to 20 mm water column. (Read-out of the DELTA P is done in mm water column or in Pascal: 1 mm water column = 10 Pascal).
- As the module is being used, Delta P will grow progressively. When it reaches about 45 to 55 mm water column, push the flap completely into the inside position until next time the cartridges are replaced (see 5.3).

*For information :* When the cartridge filters are being put into operation, the acoustic pressure level is above the value measured when the unclogging of this is normal (sound level is linked to the charge of the ventilator).



### 3.1.5 - Recycling adjustment

The recycling device permits the powder gathered in the lower part of the cartridge holder to be transported, for example, to a powder storing hopper.

- 1) Adjust the fluidization air pressure with the manual release valve (**a**) at a pressure of about 2 Bar (this value can vary depending on the material to permit better transport).
- 2) Adjust the air pressure called "injection air" with the manual release valve (**b**) at a pressure between 1 and 3 Bar depending on the powder flow to be transported.

### **3.2 - OPERATING**

The universal **FV 6000** module is controlled from the general control cabinet.

The control panel is high voltage powered from the general control cabinet; the HV signal light goes on.

The ventilator is activated from the push button.

## **4 - SAFETY PRECAUTIONS - RISK ANALYSIS**

**Main risks in connection with the installation :**

### **A - Mechanical risks**

Nothing in particular to note. The only mobile part is the ventilator rotor which is protected.

### **B - Risk of falling**

Should any corrective measures have to be taken on the upper part of the module, it is imperative to use a ladder of the right size in accordance with the height of the apparatus (see paragraph 1.3.4).

## **5 - MAINTENANCE**

### **5.1 - PREVENTIVE MAINTENANCE**

#### **5.1.1 - Différential pressostat**

The level of the manometric liquid must be controlled once a month and completed if necessary.  
See the constructor's instructions supplied with the instructions for the powder booth.

#### **5.1.2 - Unclogging sequencer**

See the constructor's instructions supplied with the instructions for the powder booth.

#### **5.1.3 - Unclogging valve**

See the constructor's instructions supplied with the instructions for the powder booth.

#### **5.1.4 - Ventilator**

See the constructor's instructions supplied with the instructions for the powder booth.

#### **5.1.5 - Filter cartridges**

The filter cartridges have to be changed as soon as a DELTA P value below 110 mm water column can no longer be obtained, despite maximum adjustment of the opening frequency of the unclogging valves and a maximum unclogging pressure of 6 Bar.

#### **5.1.6 - Suction plunger**

The ejector-venturi and the suction plunger injector are parts that have to be changed when worn and in order to maintain the apparatus working correctly, the state of these two parts should be regularly checked.

### **5.2 - Cleaning and colour changing**

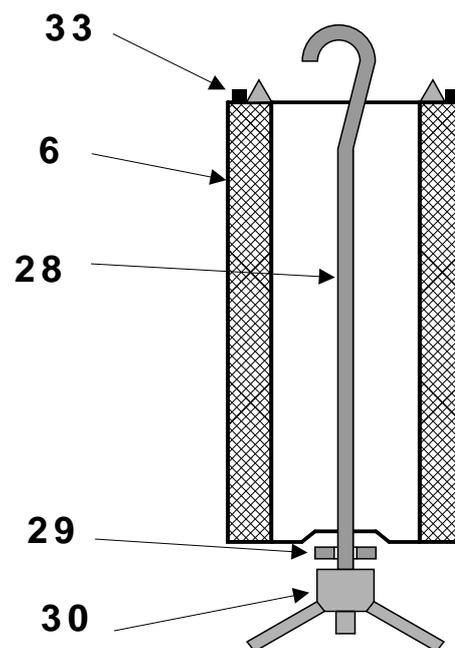
The cartridge holder has to be changed when a new powder colour is going to be used. To do this :

- 1) Clean the powder booth (see instructions for the installation or for the powder booth). Cleaning operations inside the booth can only be carried out when the unclogging is not working to prevent the operators from being exposed to an excessive noise level.
- 2) Disconnect each suction plunger (**16**) and clean them with compressed air.
- 3) Disconnect the air supply pipe from the porous bottom (**18**).
- 4) Remove the two fast connectors (**11**) and change the cartridge holder for one with a new colour.
- 5) Fit the new cartridge holder by following instructions 4) to 2).

### 5.3 - DISASSEMBLY AND ASSEMBLY OF THE CARTRIDGES HOLDERS

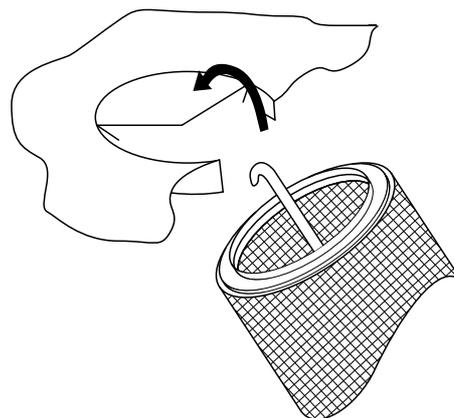
#### A - To dismantle :

- Unscrew flywheel (30).
- Remove axis cover (28) of the cartridge holder by raising the assembly thus allowing the cartridge (6) to be removed.

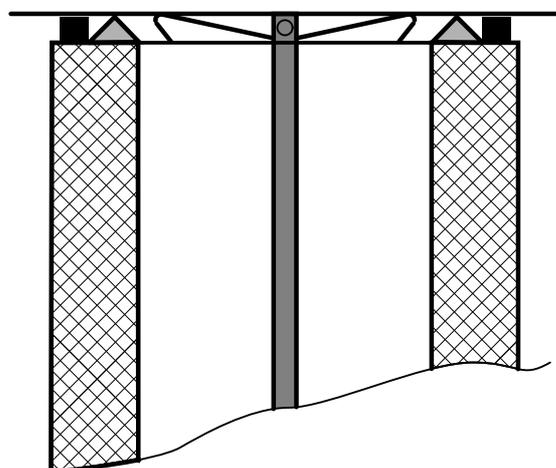


#### B - To assemble :

- Slide the cartridge support tube by the top end (seal side), the threaded part of this passing through the bottom of the cartridge.
- Place the seal washer (29).
- Screw the flywheel on the axis (a few turns should be enough).
- The hook at the top end of the tube should be fitted on the cover at the top part of the cartridge holder.



- Tighten the flywheel, the cartridge has to press against the seals (33) until it is blocked in position.



## 5.4 - CORRECTIVE MAINTENANCE

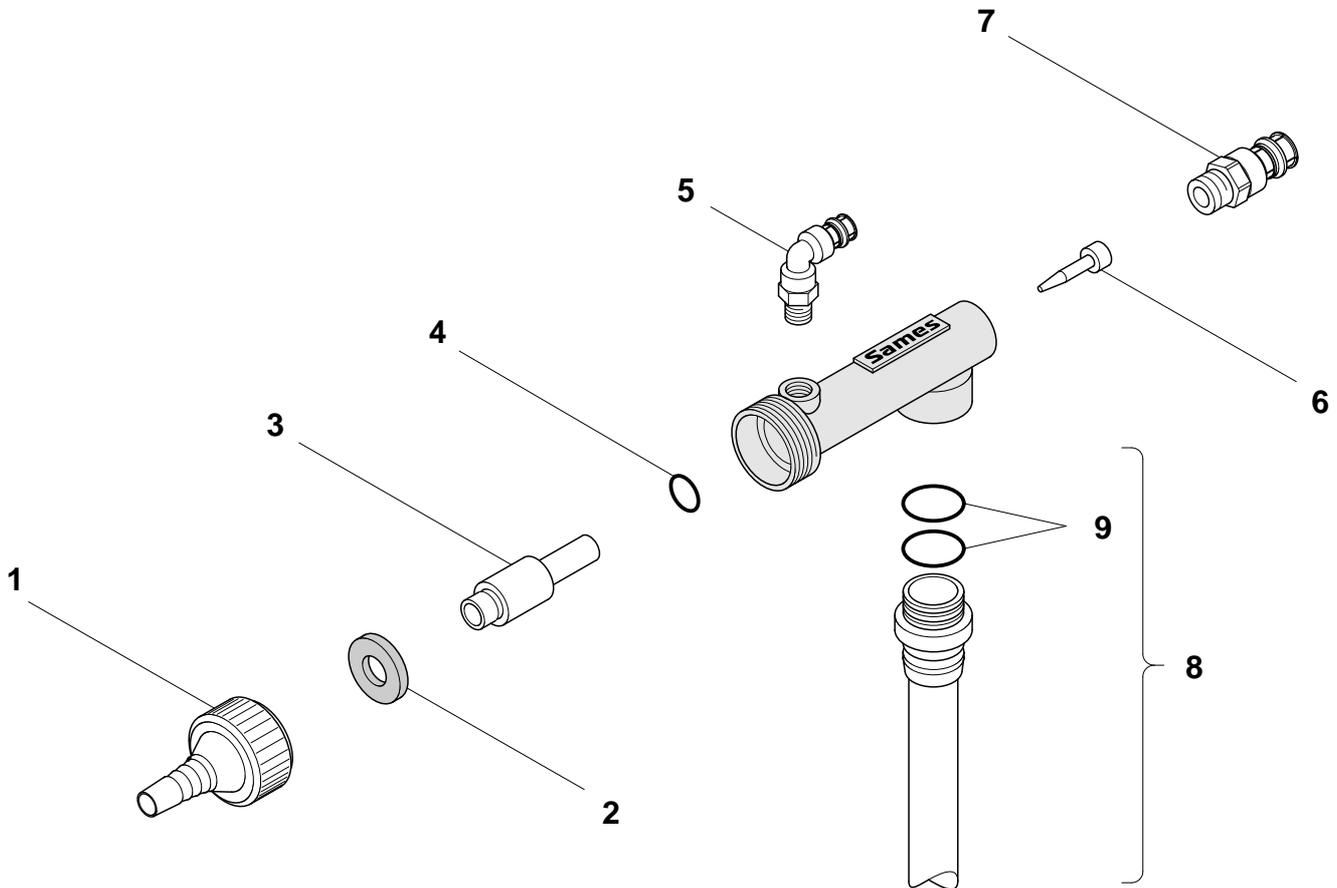
TYPE OF BREAKDOWN	PROBABLE CAUSE	REMED
Insufficient air flow and DELTA P > 110 mm water column.	Cartridge unclogging too high.	<p>1) increase unclogging frequency (until a maximum unclogging of one every 8 seconds).</p> <p>2) Increase unclogging pressure to a value of 6 bar.</p> <p>3) if 1) and 2) has no effect, change the cartridge filters.</p>
Insufficient air flow and DELTA P < 30 mm water column.	Ventilator rotating wrong way.	Check electrical connector of ventilator motor.
Powder exits from the chimney.	Cartridge holder badly fitted.	Reassemble the cartridge correctly (5.3).
	Cartridge filter damaged.	Change the faulty cartridge (5.3).
	Cartridge filter tightness seal damaged.	Change it (5.3).
No unclogging.	The manometric liquid used is not that recommended in the instruction.	Change the manometric liquid.
	Lack of manometric liquid.	Add manometric liquid.



Item	Article code	Description	Qty
1	1 400 671	Ventilator 7.5 kW	1
3	1 200 271	Silencer	1
4	R3V ELM 257	Electro-pneumovalve 110 V CC 45 FS 1" 1/2	4
5	1 200 250	Unclogging air tank	1
	1 200 077	Unclogging air tank	1
6	751 661	Filtering cartridge Lg : 660 mm	8
7	see cabinet	Modular control panel	
8	R4D FCM 047	Manual release valve with filter	1
9	Q1V RGP 059	Fixed wheel	6
9'	Q1V RGP 060	Swivel wheel	2
10	J2C MBN 289	Seal 20 x 20 1 auto-adhesive side	10 m
11	Q1F FER 090	Fast connector	2
12	854 146	Differential pressostat assembly	1
	R7M CDL 099	Différential pressostat (alone)	1
	R7M LQM 090	Manometric liquid	
15	F6R LUS 199	Straight fitting	5
16	759 692	Suction plunger (recycling) - see pages 23 and 24	2
17	Q4B PGS 054	Rubber block	4
18	1 300 552	Porous bottom	1
19	F6R LJR 195	Male plug	1
20	J2C TCN 052	O-ring 25 x 4	2
21	F6R LCS 393	Elbow connector 1/4" 6 x 8	4
24	735 117	Plunger support	2
28	821 309	Cartridge filter support axis length 660 mm	8
29	541 394	Seal washer for cartridge filter	8
30	735 889	Flywheel	8
31	F6R LJR 194	Coupler	3
32	F6R LJR 293	Union	1
32'	F6R LTS 210	Tee	1
33		Cartridge filter seal	8
34	U1C BBS 003	Rilsan hose Diam. 6/8 mm	m
35	U1C BBS 006	Rilsan hose Diam. 11/14 mm	m
36	544 835	Flat seal for plunger support	2
37	852 403	Sequencer assembly	1
	E7C SPC 724	Sequencer (alone)	1
39	F6R LCS 206	Elbow connector 3/8" - 11/14 mm	2
40	F5T PEX 004	Tee 3/8"	1
41	F6R LUS 201	Straight fitting 11/14 mm	1
42	1 401 339	Restrictor Diam. 3 mm	2
43	F6R LRG 500	Reduction	2
44	F6R LRP 311	Reduction	2
45	F6R LTS 456	Tee	1
46	F6R LCS 205	Elbow connector 3/8" - 8/10 mm	1
47	U1C BBS 005	Rilsan hose Diam. 8/10 mm	m
48	Q1V SGA 061	Locking the swivel wheels system	Option
49	1 501 404	Powder coating booth connecting kit	Option
50	1 100 429	Powder recuperation tank	1
	Q1V RGC 001	Wheels under powder recuperation tank	4
	J2N BAN 045	Seal of the powder recuperation tank	3 m
	Q1F FER 139	Fast connector of the recuperation tank	2
	F6R PWK 341	Fitting	1
	E3C CAP 063	Feed - through sleeve	1
	F5M LMF 005	Reduction	4
	F2S SIL 015	Electrovalve silencer	4

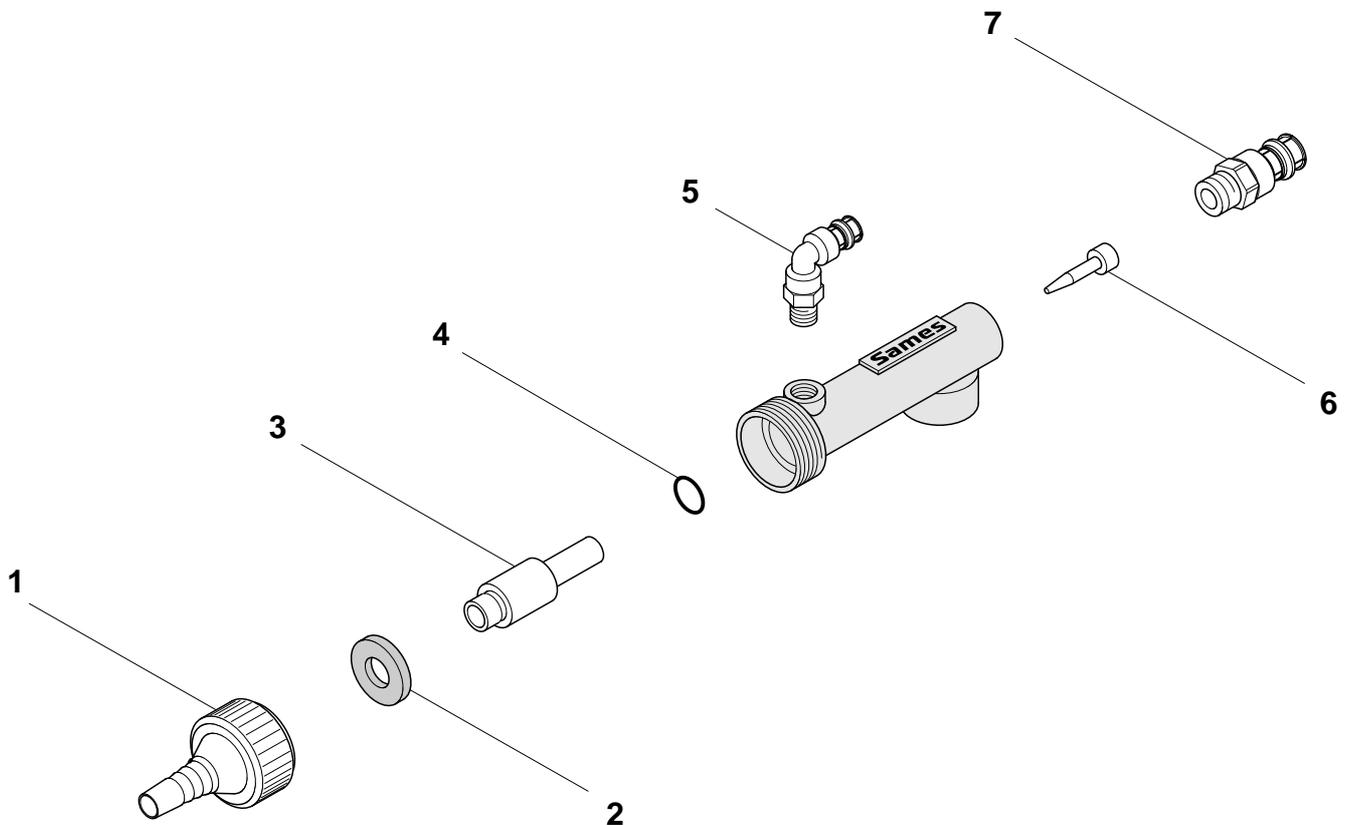


## CS 126 SUCTION PLUNGER - 759 692



Item number	Article code	Description	Qty	Sales unit
	<b>759 692</b>	<b>CS 126 SUCTION PLUNGER</b>		1
<b>1</b>	545 192	Powder outlet end piece	1	1
<b>2</b>	444 490	Porous ring	1	2
<b>3</b>	547 880	"Venturi" pump	1	10
<b>4</b>	J2C TPC 139	11 x 1.5 O-ring	1	10
<b>5</b>	F6R PPS 003	Diam. 6 mm - 1/8" elbow fitting	1	1
<b>6</b>	544 808	Air injector	1	5
<b>7</b>	F6R PUS 074	Diam. 8 mm - 1/4" plug connector.	1	1
<b>8</b>	<b>852 197</b>	<b>CS 126 PLUNGER TUBE with O-rings (9).</b>		1
<b>9</b>	J2C TPB 253	20 x 2.5 O-ring	2	10

## DISASSEMBLY AND RE-ASSEMBLY OF CS 126 SUCTION PLUNGER



### 1 - DISASSEMBLY

#### 1.1 - Disassembly of "venturi" pump (3)

- Unscrew the powder outlet end piece (1), then take out the porous ring (2).
- Take the "venturi" pump (3) out.

#### 1.2 - Disassembly of air injector (6)

- DUnscrew the plug injector (7), then take the air injector (6) out.

### 2 - RE-ASSEMBLY

#### 2.1 - Re-assembly of air injector (6)

- Insert the injector (6) into the body of the plunger, then screw the plug connector (7).

#### 2.2 - Re-assembly of "venturi" pump (3)

**IMPORTANT : Check imperatively the presence of the O-ring (4).**

- Check the state of the O-ring (4), replace it if necessary.
- Insert the "venturi" pump (3) through the body of the plunger.
- Screw on the powder outlet end piece (1).

**INCORPORATION DECLARATION  
IN CONFORMITY WITH  
THE “MACHINES” DIRECTIVE  
(modified 89/392/ EEC directive)**

The manufacturer,

**SAMES SA, Chemin de Malacher  
38240 MEYLAN (FRANCE)**

DECLARES THAT THE SUB ASSEMBLY MENTIONED BELOW :

**UNIVERSAL FV 6000 MODULE**

TYPE : **1 500 987**

CONFORMS TO THE CLAUSES OF THE MODIFIED “MACHINES” DIRECTIVE (8•09/39/2EEC DIRECTIVE; 91/368/EEC; 93/44/EEC and 93/68/EEC DIRECTIVE) AND TO THE NATIONAL LAWS GOVERNING THEM.

THE TECHNICAL DOCUMENTS OF THE EQUIPMENT MENTIONED ABOVE IS KEPT IN THE ARCHIVES OF :

**SAMES SA, Chemin de Malacher  
38240 MEYLAN (FRANCE)  
Phone Nb : 04 - 76 - 41 - 60 - 60**

DATE SIGNED IN MEYLAN

**by Mr Adrien Lacchia, Managing Director of Sames**

SIGNATURE :

## MACHINE CONFORMITY PLATE



EQUIPMENT: ELECTROSTATIC SPRAYING EQUIPMENT

N° UNIVERSAL FV 6000 MODULE REF. 1 500 987 - AR : ..... - DATE : .....

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Made in France

Meylan Grenoble