



LEADING IN PRODUCTION EFFICIENCY

# OPERATING INSTRUCTIONS

## EcoGun Cleaner M

MCD00011EN  
L058709070  
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## TRANSLATED FROM THE ORIGINAL MANUAL IN ITALIAN LANGUAGE

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# TABLE OF CONTENTS

<b>1</b>	<b>Introduction.....</b>	<b>05</b>
1.1	How to Use this Document .....	05
1.2	Terminology.....	05
1.3	Explanations on the Safety Notes and Symbols.....	06
<b>2</b>	<b>Technical Data .....</b>	<b>08</b>
2.1	Range of Application and Intended Use .....	08
2.2	Key Data.....	09
2.3	Determination of the Ex Zones .....	10
2.5	Continuing Documents .....	11
<b>3</b>	<b>Safety12</b>	
3.1	Addressees for this Manual .....	12
3.2	Use of Tools in Ex Zones .....	13
3.3	Basic Information on our Safety Notes .....	14
3.4	Troubleshooting Instructions .....	14
3.5	Special Safety Notes .....	14
3.6	Plate data .....	16
<b>4</b>	<b>Transport and Storage .....</b>	<b>17</b>
4.1	Transport .....	17
4.2	Storage.....	17
<b>5</b>	<b>Design and Function .....</b>	<b>18</b>
5.1	General Description.....	18
5.2	Operating system .....	18
5.3	Design of the Modules.....	20
<b>6</b>	<b>Assembly instruction .....</b>	<b>21</b>
6.1	Installation .....	21
6.2	Collecting dirty solvent.....	22
6.3	Ground connection .....	23
	6.3.1 EcoGun CleanerM.....	23
	6.3.2 box collecting dirty solvent.....	23
	6.3.3 flammable fluids .....	23
6.4	Pneumatic connections .....	24
6.5	Trigger Height Adjustment.....	25
<b>7</b>	<b>Commissioning.....</b>	<b>27</b>
7.1	Staring .....	27

<b>8</b>	<b>Operation .....</b>	<b>28</b>
8.1	Diagnosing Faults.....	30
<b>9</b>	<b>Maintenance.....</b>	<b>31</b>
9.1	Table programmed maintenance.....	32
<b>10</b>	<b>Parts List .....</b>	<b>34</b>
10.1	stainless steel case assembly .....	34
10.2	pneumatic actuators assembly .....	35
10.3	gun spring holder assembly.....	37
10.4	pneumatic scheme .....	38
10.5	accessories .....	39
10.6	attached documents .....	40
<b>11</b>	<b>Contacts &amp; Hotlines .....</b>	<b>41</b>

## 1 Introduction

This document is intended for the assembly, operating and maintenance personnel.

All persons concerned with operation, maintenance and repair must have read and understood this document – especially the texts marked with the safety symbol. This document should always be ready to hand for the personnel.

Complete this document, drawings, parts lists, manuals of the main components that should be used for more information.

**Dürr Systems AG** will refuse any liability for damages arising from the non-observance of the manual!

For questions, please contact either our service or spare parts departments, or subsidiary of Dürr Systems AG (see chapter 11 “Contacts & Hotline”).

### 1.1 How to Use this Document

In this manual, you will find information, specifications and warning notes that are necessary for the operation of assembly, operating and maintenance



#### ATTENTION

Read this manual and attached documents attentively respect the specifics contained in them.

### 1.2 Terminology

The terms used in this manual are supposed to facilitate the reader the fast and safe understanding of the text.

### 1.3 Explanations on the Safety Notes and Symbols

In this manual, symbols and signal words are used to point out to specific dangers.

The symbols are complemented by text. The text describes the danger and points out how to avoid the danger. Further, the necessary precautions are specified.

The jobs described in this document presuppose that the operator has understood the entire manual and knows its contents.

It is by no means sufficient to only observe the safety notes.

#### Dangers to life and limb

The red safety note "Danger" indicates a high risk that will result in death or a severe injury



**DANGER**

Danger of lethal injuries

The orange safety note "Warning" indicates a medium risk that could result in death or a severe injury



**WARNING**

Danger of severe injuries

The yellow safety note "Caution" indicates a low risk that could result in an insignificant or minor injury



**CAUTION**

Danger of minor injuries

## Dangers for production and operation

If the jobs described in this document are not carried out correctly or unsuited tools or materials are used, a major breakdown may jeopardize the entire production and the normal course of operations. Such breakdowns may be very expensive.

Such dangers are referred to with the blue note "Attention



### ATTENTION

**Danger of material damage and production interference.**

## 2 Technical Data

### 2.1 Range of Application and Intended Use

The EcoGun Cleaner M is an equipment used for ,automatic washing, of conventional and Electrostatic manual spray guns

When used with a **EcoDose 2K** system or similar , the EcoGun Cleaner M operates with a controller to automatically flush manual guns into an enclosed waste container.

The advantages of using the EcoGun Cleaner M instead of conventional flushing methods include:

- Reduced solvent use
- Reduced VOC (volatile organic compounds) emissions
- Improved operator safety during flushing

The EcoGun Cleaner M controller flushes the exact amount of solvent required to clean the system. It reduces VOCs by preventing solvent from being atomized during the flush cycle

Traditional flushing procedures expose the operator to atomized solvent and accidental gun discharge.

The EcoGun Cleaner M contains the solvent and prevents accidental gun triggering with safety interlocks

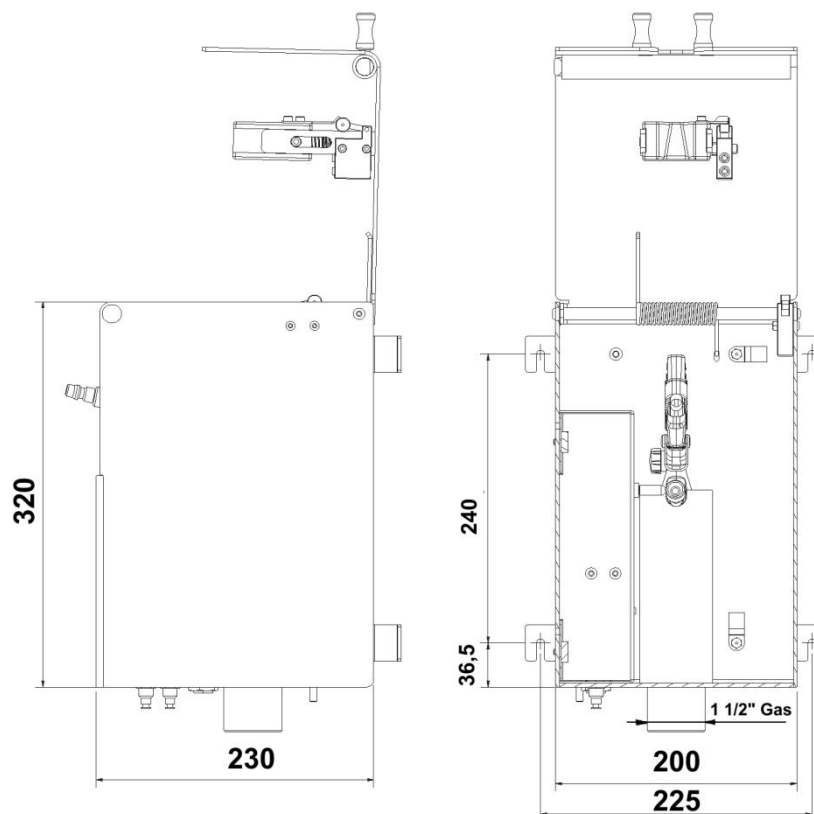
The interlocks will only allow atomizing air to the gun when the gun is out of the EcoGun Cleaner M and the door of the box is closed.

If a switch fails or if system air is shut off, the atomizing air will be shut off to the gun.



## 2.2 Key Data

Dimensions in mm. :

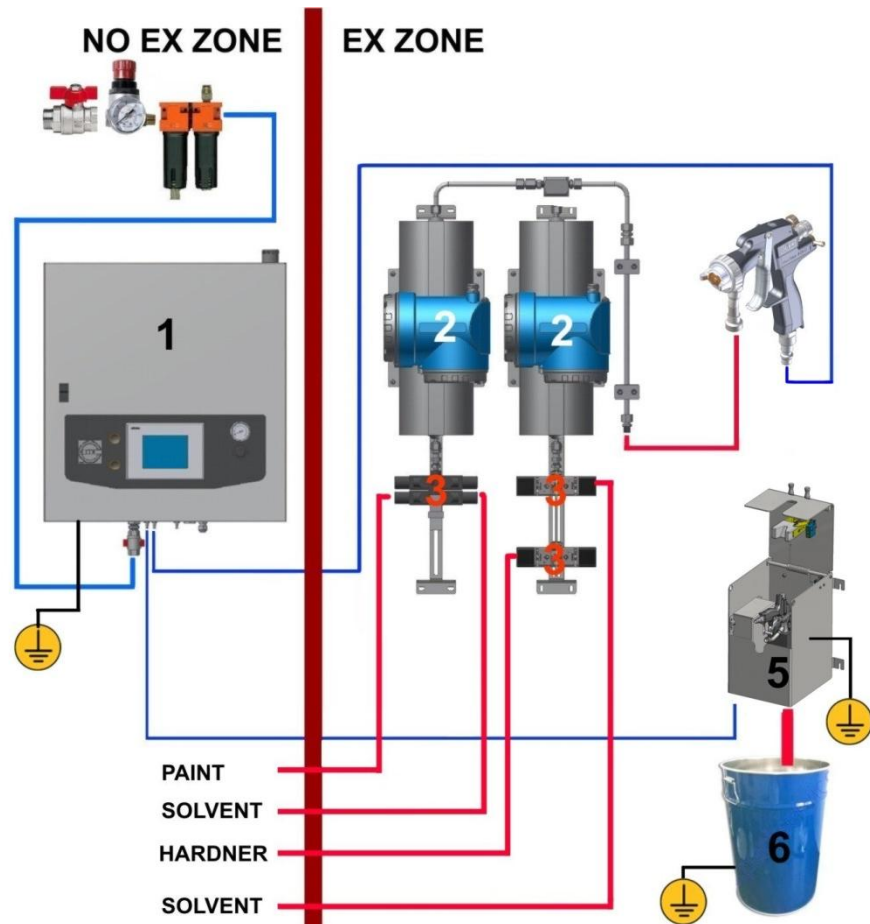


Product temperature  
 Air pressure  
 Ambient temperature  
 Transport and storage temperature  
 Weight  
 Wetted Parts

**max. 65° C**  
**7 bar max**  
**da 5° C a 40° C**  
**da 25° C a 60° C**  
**~ 12 Kg.**  
**Stainless steel, nylon,**  
**Polyethylene**

### 2.3 Determination of the Ex Zones and typical installation

**Typical Installation of the EcoGun Cleaner M in EcoDose 2K System , or similar.**



1. electrical panel **EcoDose 2K**
2. Flow meter
3. Valves colour change
4. Spray gun
5. EcoGun Cleaner M
6. box collecting dirty solvent



## ATTENTION

In normal operation, an explosive atmosphere is only present inside the spray booth.

## 2.4 Continuing Documents



### ATTENTION

**Addition to respect the safety instructions in this manual, for the transport operations - installation - normal functioning - maintenance , also refer to the instructions contained in the manuals of the equipment connected to the EcoGun Cleaner M .**

For example:

- Conventional and Electrostatic manual spray guns
- EcoDose2K or similar.

## 3 Safety

### 3.1 Addressees for this Manual

In this manual, it is presupposed that only authorized, experienced personnel will work in the installation, conduction and

The jobs described in this manual may only be carried out by personnel who:

- are sufficiently qualified **[1]** for the jobs to be carried out,
- are especially trained **[2]** for the jobs to be carried out,
- are informed about the possible dangers
- know the valid safety regulations.

The installation, maintenance and repair of the EcoGun Cleaner M may only be carried out by experienced personnel **[3]**. An adequate advanced training or qualification of the personnel is to be carried out regularly.

**[1]** In the sense of authorized, experienced and suited

**[2]** In the sense of trained and experienced

**[3]** Qualification of operated personnel for jobs in explosive areas:

- understanding of the general principles of explosion protection;
- understanding of the general principles of the types of protection and the designation of the protective devices
- broad understanding of the requirements for the inspection, maintenance and repair in potentially explosive areas according to IEC 60079 -17;

If a precise assignment of responsibilities is necessary, this operating manual distinguishes between:

- **customer** (management, works manager, installation manager or comparable function in the enterprise)
- **operator** (installation operators, maintenance personnel, programmers, fitters and cleaners or comparable functions in the enterprise)

The **customer** must ensure that the tasks and responsibilities to be assumed by the operator have been clearly defined.

The **customer** must ensure that every operator has been informed and instructed about all dangers. The customer must provide the operator with the necessary protective equipment. Each operator must have been informed and instructed about safety functions and safety equipment.

The operator may only carry out the installation, commissioning, maintenance, repair and cleaning jobs expressly described in this operating manual. Work that **is not described** in this manual may only be carried out by the manufacturer. For all maintenance, repair and cleaning jobs, observe the industrial safety rules applicable at the place of the installation

### 3.2 Use of Tools in Ex Zones

The spraybooth is classified once into ex zones according to DIN EN 12215. The ex zones are defined once and are valid independent of the installation's operating condition. Even a spraybooth into which no inflammable medium is brought and that is sufficiently ventilated is still ex zone.

According to DIN EN 50176, only accessories meeting the requirements of EN 60079-0 and/or EN13463-1 may be used in an ex zone.

DIN EN 12215 always requires a technical ventilation for the spray booth. In spraybooths with fresh air operation, a sufficient ventilation is ensured after a 3- to 10-fold air exchange. As a rule, the spraybooth is sufficiently ventilated after 5 minutes. In recirculating air installations, a ventilating time of 30 minutes **[4]** is necessary to achieve a sufficient ventilation, depending on the mixture ratio of recirculating air to fresh air.

The use of not classified tools in the sense of explosion protection in hazardous areas is the customer's exclusive responsibility.

- The **customer** has to carry out a risk assessment for every operation performed , to document these and to prepare an operating manual resulting from that.
- The **customer** has to ensure that all operators carrying out the respective jobs know and observe these measures.

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**[4]** This value is dependent on the design and settings and must always be determined with the system-specific parameters

### 3.3 Basic Information on our Safety Notes



#### ATTENTION

The general dangers in the installation of EcoGun Cleaner M are not expressly referred to in this manual. The personnel must be informed by the customer and correspondingly trained concerning these dangers.

Also observe the information in **chapter 2.4** "Continuing Documentation".

In this operating manual, you will only find the safety notes that are directly associated with the product described in this manual.

For the jobs described in this operating manual, it is an indispensable requirement that the user of this operating manual knows and observes the further installation documentation and their safety notes.

In addition, the user of this manual must pay attention to and observe the legal safety regulations valid in the place of operation.

The meaning of the symbols used in our operating manuals is explained in **chapter 1** "Introduction".

### 3.4 Troubleshooting Instructions

Repairs may only be carried out by personnel that are particular trained for that.

Faults, their cause and elimination have to be recorded correspondingly.

### 3.5 Special Safety Notes

Before performing maintenance and repair you must ensure that no residual pressure (air and product) is present in EcoGun Cleaner M



#### WARNING

**Danger due to spurting out material!**

Potential chemical burns of the skin by material spurting from defective paint hoses.

Check paint hoses regularly. Reduce any potentially pending pressures before working at paint and air hoses.



## **DANGER**

### **FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD**

The operator and all the people who have access to the spraying must be properly grounded

### 3.6 Plate data





## 4 Transport and Storage



### ATTENTION

The following operations can be performed only by adequately trained personnel. See chap. 3 of this manual.

### CAUTION



**Wear personal protection outfit**  
Always wear the following protection outfit during the assembly



### CAUTION

Danger of minor injuries

#### 4.1 Transport



The EcoGun Cleaner M It is packed and shipped in a cardboard box

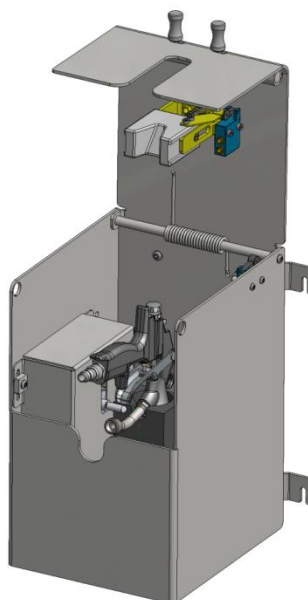
#### 4.2 Storage

Environmental conditions in the storage place:

- Temperature: 5 °C - 40 °C
- Humidity: 35 % – 90 %

## 5 Design and Function

### 5.1 General Description



The EcoGun Cleaner M is an equipment used for ,automatic washing, of conventional and electrostatic manual spray guns

To avoid hazardous concentrations of flammable or toxic fumes, install the EcoGun Cleaner M in a properly ventilated spray booth.

Locate the EcoGun Cleaner M in an area easily accessible to the operator and away from the spray or application point.



#### WARNING

Never operate the EcoGun Cleaner M unless ventilation fans are operating.



#### DANGER

#### FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD

In case of use with electrostatic guns, to reduce the risk of fire, explosion or electric shock, follow the instructions given in chapter 3, read the instructions in the manual electrostatic gun for additional warnings and instructions on the safe use of the gun same. Always deactivate the high voltage before placing the gun in 'EcoGun CleanerM

## 5.2 Operating system

The operator places the spray gun in the EcoGun Cleaner M

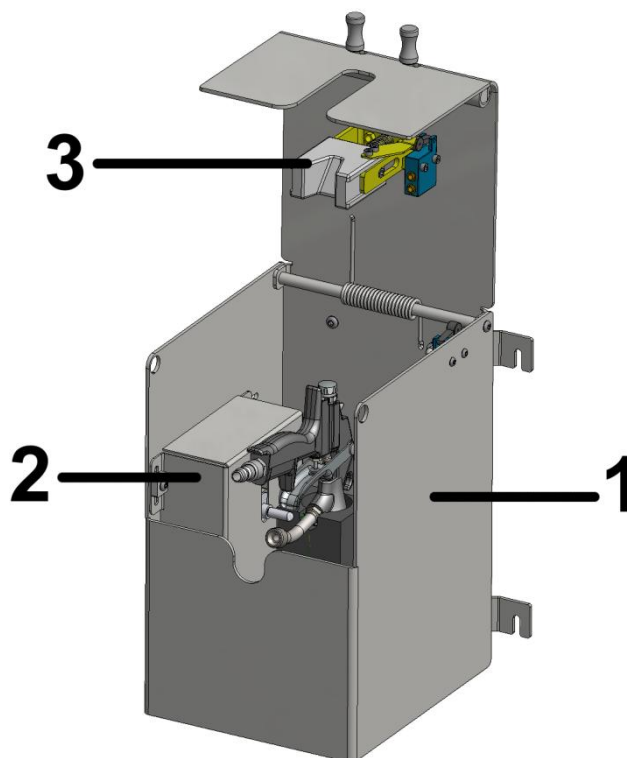


and closes the cover



The interlock systems of the EcoGun Cleaner M intercept the atomizing air to the gun to prevent atomization of the solvent when you start washing and to ensure that, in case of use of electrostatic guns, is disabled the High Voltage

### 5.3 Design of the Modules



**1** - STAINLESS STEEL CASE ASSEMBLY    cod. L058709068

**2** - PNEUMATIC ACTUATORS ASSEMBLY    cod. L058709066

**3** - GUN SPRING HOLDER ASSEMBLY    cod. L058709067



## ATTENTION

See parts list chapter 10



## 6 Assembly Instructions



### ATTENTION

The following operations can be performed only by adequately trained personnel. See chap. 3 of this manual.

### CAUTION



Wear personal protection outfit.  
Always wear the following protection outfit during the assembly.

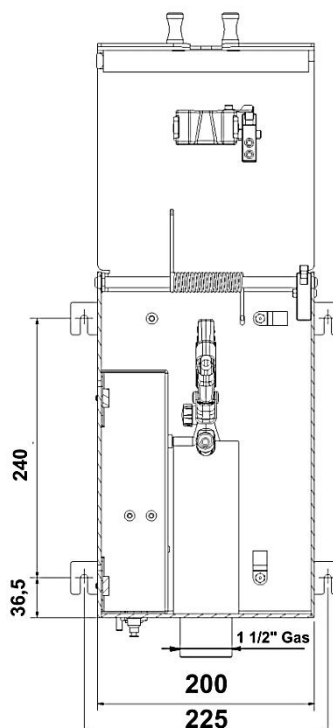


### CAUTION

Danger of minor injuries.

#### 6.1 installation

The EcoGun Cleaner M is designed for wall fixing or on a specific support made by the customer





## 6.2 Collecting dirty solvent

The dirty solvent, the product during cleaning operations of the spray guns, must be conveyed directly into the collection tank of the cabin or collected in a container placed under the EcoGun Cleaner M



### WARNING

#### Toxic fumes hazard

If it is not possible to connect the EcoGun Cleaner M directly to the tank of the spray booth, to reduce the risk of splashes, you need to connect a pipe (plastic or metal connected to ground) of at least 0.6 meters. Between the EcoGun Cleaner M and a metal container used to collect dirty solvent.





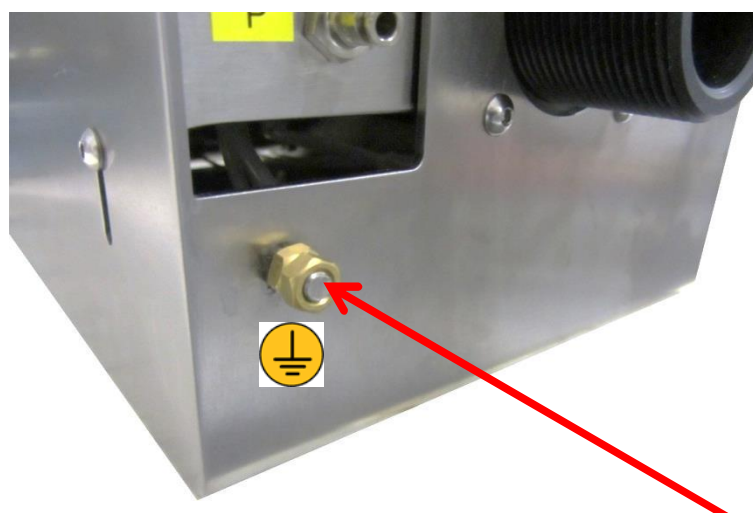
## 6.3 Ground connection



**DANGER**  
**FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD**

To reduce the risk of fire, explosion or electric shock, the system and the operators must be properly grounded.

### 6.3.1 EcoGun Cleaner M



Must be connected to the network equipotential earth, the EcoGun Cleaner M using the dedicated terminal

### 6.3.2 box collecting dirty solvent

Connect the collection container of dirty solvent to the network equipotential grounding of the plant, using the dedicated terminal

### 6.3.3 flammable fluids

In the spray area must be kept in approved, grounded containers. Do not store more than the quantity needed for one shift.

## 6.4 Pneumatic connections



### CAUTION

Max air pressure.: 0,7 MPa (7bar).  
Use the quick couplings for hose Elastolan 2,7x4 on the bottom of the EcoGun Cleaner M



### ATTENTION

See pneumatic scheme 0300026.PI.GE.01 rev. 01 chapter 10.



<b>P</b>	Air supply input
<b>S</b>	Enabling atomizing air
<b>A</b>	Presence signal spray gun
<b>C</b>	Activation trigger spray gun



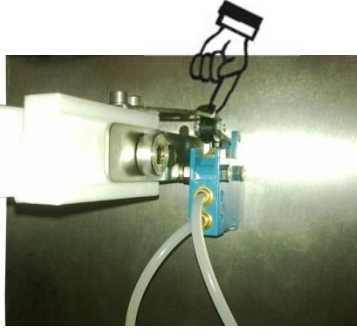
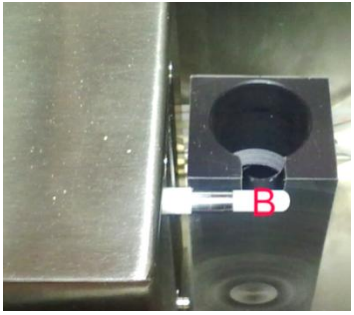
## 6.5 Adjustment Trigger and block press spray gun


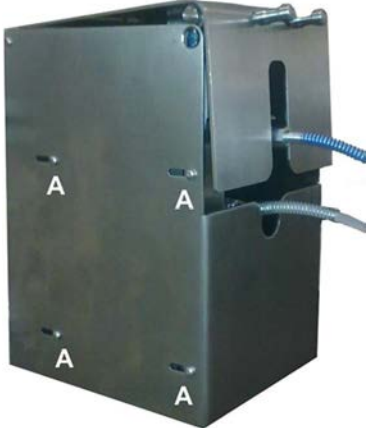
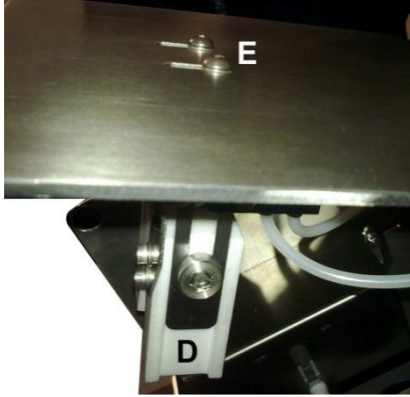
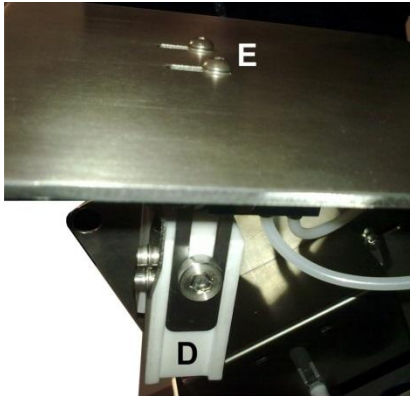


### ATTENTION

Normally, the regulation of the correct positioning of the gun, is carried out by the manufacturer during the functional testing dell' EcoGun Cleaner M.

Otherwise follow this procedure to ensure that the gun is operated correctly during washing

STEP 1	STEP 2
<p>put the spray gun in the EcoGun Cleaner M</p> 	<p>loosen the four screws (A) that block the actuator assembly box (C)</p> 
<p>Manually force the microswitch under the cover</p> 	<p>to allow the output of the piston (B) that presses the trigger of spray gun</p> 

STEP 5	STEP 6
<p>Move the actuator assembly box (C) , until the piston (B) , does not open completely the trigger of the gun</p> 	<p>tighten the four screws (A), to lock the actuator assembly box (C) in the correct position</p> 
STEP 7	STEP 8
<p>loosen the two screws (E), and adjust the block press gun (D)</p> 	<p>Tighten the two screws (E)</p> 

## 7 Commissioning



### ATTENTION

The following operations can be performed only by adequately trained personnel. See chap. 3 of this manual.

### CAUTION



Wear personal protection outfit.  
Always wear the following protection outfit during the assembly.



#### 7.1 starting

The EcoGun Cleaner M has been tested by the manufacturer but is essential before the first start-up:

- ensure that you have complied with all the steps described in chapter 6
- check that all connections compressed air and product in / out are correctly tight
- check that the ventilation fans are operating properly
- check that the floor of the spray area is electrically conductive and grounded.

## 8 Operation



### ATTENTION

The following operations can be performed only by adequately trained personnel. See chap. 3 of this manual.

### CAUTION



Wear personal protection outfit.  
Always wear the following protection outfit during the assembly.



### WARNING

Danger due to spurting out material.



### DANGER

**FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD**



The operator and all the people who have access to the spraying must be properly grounded.



### WARNING

**TOXIC OR FLAMMABLE FUMES HAZARD**





## ATTENTION

Directions and following images were made hypothesizing the connection with a EcoDose2K

STEP 1	STEP 2
<p style="text-align: center;">Put the gun in the EcoGun Cleaner M</p> 	<p style="text-align: center;">close the cover</p> 
STEP 3	
<p>Turn on the cleaning operation from the operator panel of EcoDose 2K</p>	
	
<p>The automatic cleaning will run with the set parameters</p>	



## 8.1 Diagnosing Faults

Message	Possible Cause	Fault Elimination
Gun is in the EcoGun Cleaner M, but the system EcoDose 2K will not purge or mix	Air of EcoDose 2K is shut off	Turn on the air to the system EcoDose 2K
	Gun switch is not activating	Test the switch. Replace it if it is damaged
	Tubing is not installed correctly	Check tubing against schematic on cap. 11
EcoGun Cleaner M fails to purge after the pot life time ends.	Gun is not in EcoGun Cleaner M	Place the gun in the EcoGun Cleaner M
	Gun switch is not activating	Test the switch. Replace it if it is damaged
Gun trigger is not open when the EcoGun Cleaner M controller activates it.	Tubing is not installed correctly	Check tubing against schematic on cap. 11
	Cylinder is damaged	Clean cylinder rod or replace
	Gun is not properly set in the gun holder	Check to make sure the gun holder is not obstructed by buildup
	Lower cylinder is out of adjustment	Adjust the block as instructed in <b>Trigger Height Adjustment</b> procedure cap. 6.5.
Gun is out of the EcoGun Cleaner M with the door closed but the atomizing air is off	Lid switch or gun switch failure	Check the switches and replace if necessary
	No air flow to the EcoGun Cleaner M	Check the air supply and tubing

## 9 Maintenance



### ATTENTION

The following operations can be performed only by adequately trained personnel. See chap. 2 of this manual.

### CAUTION



Wear personal protection outfit.  
Always wear the following protection outfit during the assembly.



### WARNING

Before performing any maintenance ,operator must be ensure that:

- are intercepted supplies air and products
- all circuits (product / solvent / air) are depressurized







### WARNING



Danger due to spurting out material!

Chemical burns of the skin by material spurting from defective paint hoses and color changers.

Check paint hoses and color changer regularly. Reduce any potentially pending pressures before working at paint color and air hoses.

### 9.1 Table programmed maintenance

SUBJECT OF THE INTERVENTION	INTERVENTION	FREQUENCY	PROPOSALS AND SUGGESTIONS
<p>Box</p> 	inside cleaning	DAILY	Keep the inside as clean as possible. Clean with a compatible solvent.
<p>Box</p> 	External cleaning	WEEKELY	Clean with a compatible solvent.
<p>pneumatic actuators</p> 	Cleaning and lubrication of the cylinder pins	DAILY	Always keep the cylinder pin clean. In particular, eliminate all traces of sealant that may be deposited. For lubrication use hydraulic oil class H (for example MAGNA GC 32 Castrol )
<p>Micro switch presence gun</p> 	Check the integrity and correct working order of the micro	DAILY	Due to the importance of this component for safety purposes replace it <b>immediately</b> in the case of anomalies..

SUBJECT OF THE INTERVENTION	INTERVENTION	FREQUENCY	PROPOSALS AND SUGGESTIONS
Micro switch cover 	Check the integrity and correct working order of the micro	DAILY	Due to the importance of this component for safety purposes replace it <b>immediately</b> in the case of anomalies..
Discharge pipe dirty solvent 	Check obstruction tube	WEEKELY	Keep the exhaust pipe perfectly clean and free from dirty



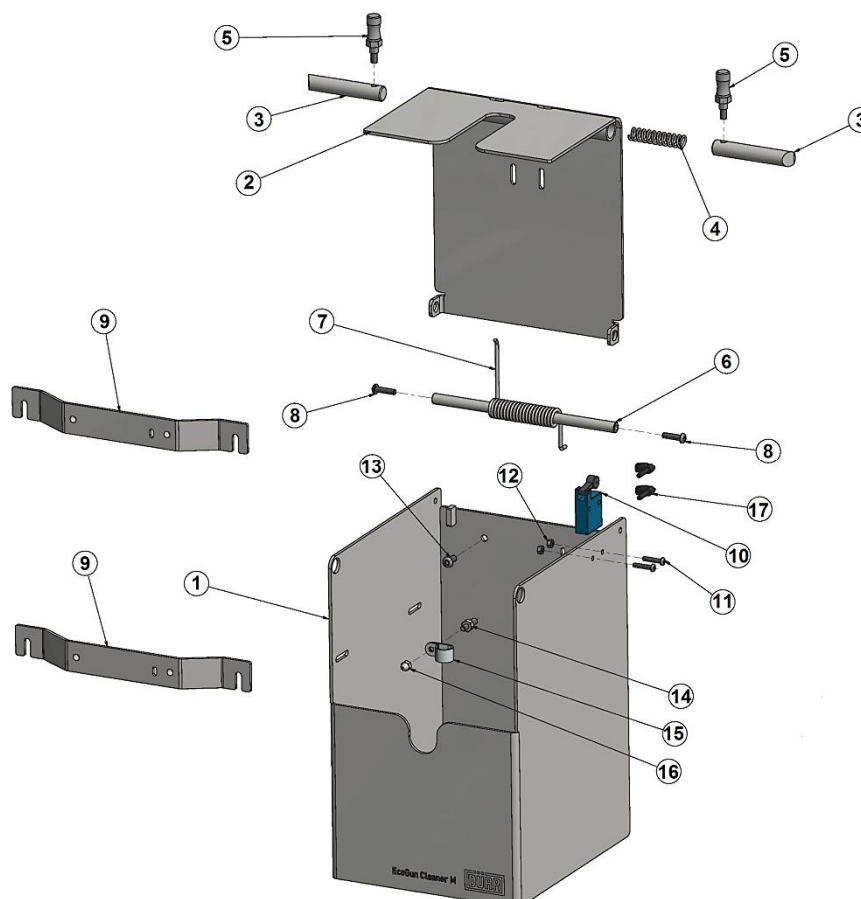
## ATTENTION

Constant general cleaning of the entire machine contributes to maintaining it always in perfect efficiency and immediately identification of any problem, therefore avoiding extraordinary maintenance.

**N.B.** the frequency of intervention indicated in the planned maintenance table is of a general nature. Personnel in charge of operating the machine should adapt the frequency of intervention according to real necessities.

## 10 parts List

### 10.1 STAINLESS STEEL CASE ASSEMBLY cod. L058709068

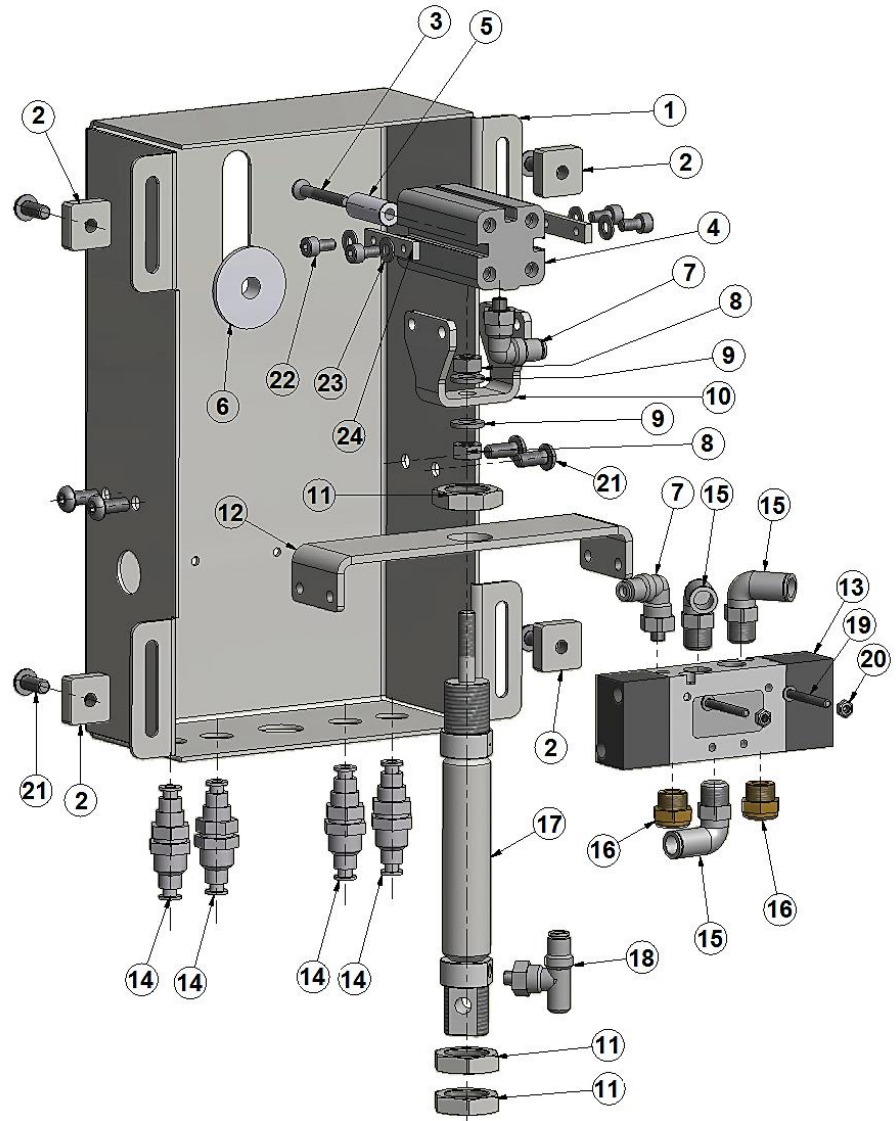


pos.	q. ty	description	cod.
1	1	EXTERNAL ENCLOSURE	L056900349
2	1	TOP COVER	L056900350
3	2	LOCKING DEVICE	L056900373
4	1	COMPRESSION SPRING	L057100124
5	2	HANDLE	L056900374
6	1	COVER SHAFT	L058000747
7	1	TORSIONAL SPRING	L057051459
8	2	ISO7380 M5x20 SCREW	L057102152
9	2	WALL MOUNTING	L056900372
10	1	PNEUMATIC MICROSWITCH	L056707005
11	2	ISO7380 M4x20 SCREW	L057102168
12	2	S.S. SELF LOCKING M4 NUT	L057052828
13	2	M6x12 INOX ISO7380 BUTTON-HEAD SCREW	L057102166
14	2	M6x12 - M5x10 REDUCTION SCREW	L056909112
15	2	NYLON DIAM.16mm CABLE HOLDER	L057100126
16	2	M5 NUT	L057102169
17	2	RAPID FITTING 90° FOR 4mm HOSE	L052500669

RECOMMENDED SPARE PARTS



## 10.2 PNEUMATIC ACTUATORS ASSEMBLY cod. L058709066

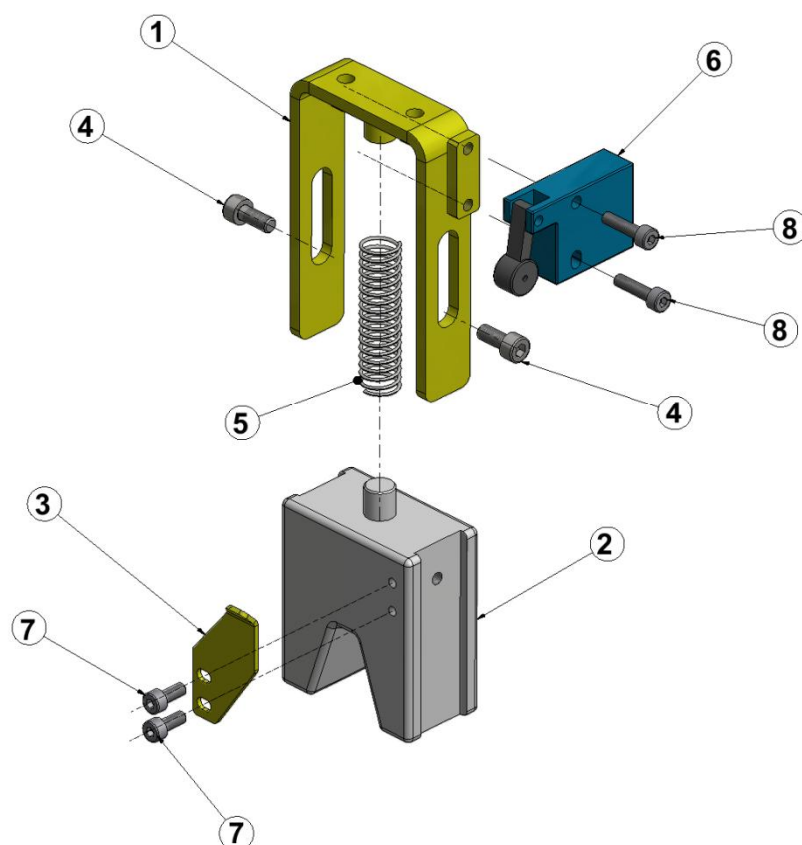


pos.	q. ty	description	cod.
1	1	EXTERNAL ENCLOSURE	L056900348
2	4	M5 BLOCKS	L056900412
3	1	S.S COUNTERSUNK BOLT M4x30	L057102163
4	1	SE 12X20 ACTUATOR	L052500663
5	1	SHAFT EXTENSION	L058000748
6	1	ACTUATOR SHAFT WASHER	L056901004
7	2	SWIVEL RAPID FITTING 90° M5 4mm with O-RING	L052500466
8	2	M6 NUT	L057102159
9	2	SS FLAT WASHER Ø6.4-Ø12.5-1.6	L058000671
10	1	ACTUATOR SUPPORT	L056900358
11	3	M16 NUT	L057102162
12	1	ACTUATOR SUPPORT	L056900357
13	1	PNEUMATIC VALVE 5/2 -1/8" ATEX	L051401977
14	4	4mm BULKHEAD	L052500468
15	3	SWIVEL RAPID FITTING 90° 1/8"M 4mm	L057058709
16	2	1/8" SILENCER	L052500418
17	1	ACTUATOR ISO SE 16x40	L052500662
18	1	SPEED REGULATOR M5 4mm	L052500668
19	2	BUTTON-HEAD SCREW M3x25 SS ISO7380	L057102164
20	2	SS M3 NUT UNI5588	L057102165
21	8	BUTTON-HEAD SCREW M5x12 SS ISO7380	L057102151
22	4	SOCKET HEAD SCREW M4x8 S.S. DIN 912	D09120204
23	4	WASHER Ø 4.3x9 S.S.	L057052862
24	2	M4 LOCKING BLOCK	M12510055

	RECOMMENDED SPARE PARTS
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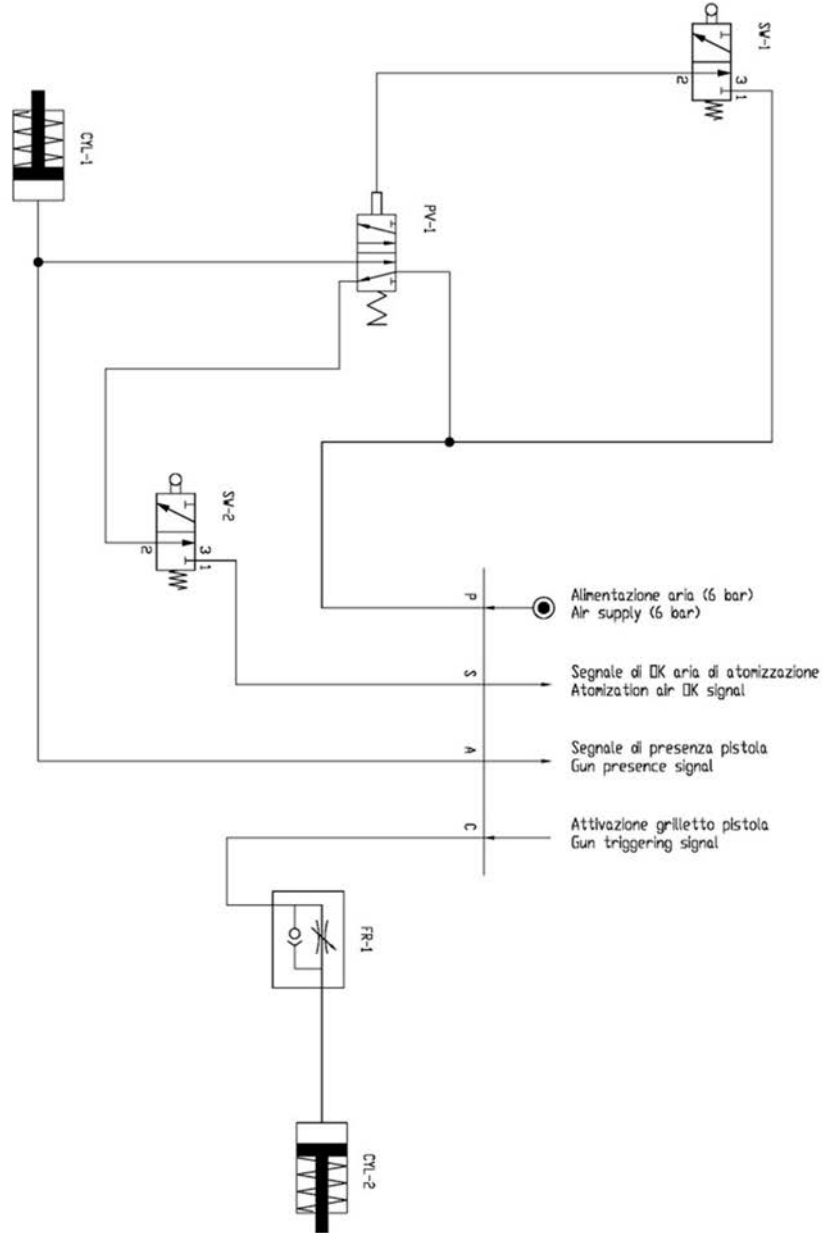
### 10.3 GUN SPRING HOLDER ASSEMBLY cod. L058709067



pos.	q. ty	description	cod.
1	1	GUN HOLDER SUPPORT	L056900353
2	1	GUN HOLDER	L056900352
3	1	MICROSWITCH TRIGGER	L056900354
4	2	SOCKET HEAD SCREW M5x12	L057102153
5	1	COMPRESSION SPRING	L057100125
6	1	PNEUMATIC MICROSWITCH	L056707005
7	2	SOCKET HEAD SCREW M4x10	L057102154
8	2	SOCKET HEAD SCREW M4X16 SS UNI 5931	L052100140

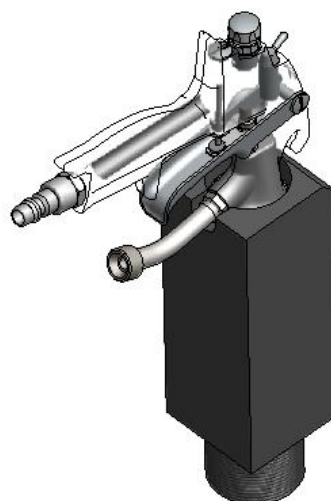
**RECOMMENDED SPARE PARTS**

10.4 PNEUMATIC SCHEME dis. 0300026.PI.GE.01 rev. 01



## 10.5 ACCESSORIES

### Spray gun supports



Spray gun model	cod.
EcoGun 910S	L058000751
EcoGun AS MAN 249 LP	L058000767
EcuGun 2100 AA MAn 2P	L058000775
GRACO ELECTROSTATIC GUN PRO XP 40	L058000771
GRACO ELECTROSTATIC GUN PRO XP 60	L058000768
GRACO Manual Gun Air PRO 1.1	L058000772
SATAJet 3000 KRP	L058000753
IWATA W200 (W200B)	L058000774
DEVILBISS GT PRO LITE	L058000752

## 10.6 ATTACHED DOCUMENTS

### Certificates and Declarations of Conformity

Supplier	Description	Code
VERIND	DECLARATION OF INCORPORATION (according to Directive 2006/42 EC Annex II par.B)  Doc. xxxxxxx.DC.ECM.00.00 L058709070	L058709070

## 11 Contacts & Hotline

### **Verind S.p.A.**

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