

SPRAY-GUN WASHER IWK H20

Mod. H20

For manual washing with water

GB Before use, adjustment or maintenance, it is important to read this instruction manual very carefully. The manual must be stored in a safe place for any future reference that may be necessary.

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1. INTRODUCTION

This manual contains instructions for the installation, use and maintenance of the **IWK H2O**. In the following manual, the **IWK H2O** will be referred to as **Spray-gun washer**. **This manual is an integral part to the product and should be kept with due care in order to allow for its use and consultation during the life of the Spray-gun washer.**

The regular operation, economy and safety of the **Spray-gun washer** depends on the compliance with the instructions given in this manual. It is mandatory to follow the procedures as described in this manual.



This manual must be read and understood perfectly prior to installing, using or performing any type of operation or maintenance on the machine. The Spray-gun washer must be used exclusively for the washing of spray-guns or small parts, using water or water-based solvents with specific characteristics. Use of the Spray-gun washer for processing other than the type indicated in this manual is considered improper use and is therefore prohibited. ANEST IWATA EUROPE declines any and all responsibilities for damages caused by the Spray-gun washer to persons, animals or property, due to use other than the use described herein, or for damages due to negligence or failure to observe the instructions contained in this manual.

The **Spray-gun washer** is manufactured according to the provisions contained in the following European Directives:

- **Directive 98/37/CE (Machine Safety).**
- **Directive 94/9/CE (Equipment to be used in potentially explosive environments).**

With reference to the Directive 94/9/CE ("ATEX" directive) the **Spray-gun washer** is a machine designed and built to work in compliance with the operating parameters fixed by **ANEST IWATA EUROPE** and guarantees a normal level of protection in regard to the **appliances group II, category 2**. The machine supplied is accompanied by the following documents:

- **CE Declaration of conformity.**
- **CE Mark.**
- **Manual for use and maintenance.**

1.1 GUARANTEE

Upon delivery of the **Spray-gun washer**, it is necessary to make sure that no damages have occurred during shipment and the supply of accessories is complete and undamaged. Claims must be filed within 8 days of delivery. The buyer is eligible for the guarantee coverage only when he has complied with the guarantee conditions listed below.

ANEST IWATA EUROPE guarantees its products under the following conditions:

- a) The **Spray-gun washer** is guaranteed for a period of two years from the date of purchase as certified by a delivery document issued by the Dealer. When the customer requests guarantee service, he must specify the model, serial number and year of manufacture of the appliance.
- b) The guarantee covers free replacement or repair of the appliance component parts which are recognized to have manufacturing defects without any charge for labour.
- c) Guarantee services are performed at the manufacturer's factory or at authorized service centres. The appliance must be sent already prepaid to them and shall be returned to the customer at his own expense and risk. If any intervention by technicians is requested under guarantee coverage at the customer's installation site, then the customer shall be charged for the transfer time, for mileage and for all board and lodging expenses according to the valid fees applied by the Service Centre. No charge is made for the time required to repair and replace parts.
- d) The manufacturer waives all liability for any damage that may directly or indirectly be caused to persons or property resulting from failure to comply with all the provisions in the instruction manual. In particular, this regards failure to comply with warnings about placing, installing, operating and maintaining the appliance. The present guarantee does not cover any reimbursement for direct or indirect damage due to appliance down-time. Guarantee coverage is only valid when payments are all in due order.
- e) This agreement is governed by current law in the Republic of Italy. Any controversy deriving from this agreement shall be settled by the Court in Turin, Italy.

In addition to the cases stated above, **guarantee coverage is waived** in the following cases:

- Whenever the **Spray-gun washer** has been handled or operated incorrectly by the operator.
- Whenever the damage is due to insufficient maintenance.
- Whenever the **Spray-gun washer** has been damaged by modifications following repairs done without the consent of **ANEST IWATA EUROPE** or the installation of non-original spare parts.
- Whenever the owner/operator fails to comply with the instructions given in this manual.
- Whenever corrosive solvents are used that do not correspond to legal standards or included among those listed by **ANEST IWATA EUROPE**.

1.2 APPLICATION

The **Spray-gun washer** was designed and built **exclusively** to wash spray-guns or small-sized pieces, using clean water or special water-based solvents. The **Spray-gun washer** can be used only to wash parts that have been soiled with paint. Pieces must be made of metal, preferably steel or anti-static material, and must have a weight that does not exceed 10 kg. Ensure that the pH of the water-based solvent ranges between 6.5 and 12 when used instead of water to wash parts. The fluid solvent mixture should not contain inflammable components; if such components are present, the concentration must not exceed 8%.

PROHIBITED USES OF THE SPRAY-GUN WASHER:

All washing operations of objects or products that are not included in this manual, or of objects approved (spray-gun and small components) but with solvents with specifications other than those indicated in this manual, are expressly forbidden:



WARNING

The Spray-gun washer must be used exclusively for the purpose for which it was designed and built. All other uses not covered by this manual are to be considered inappropriate and are strictly forbidden. ANEST IWATA EUROPE declines any and all responsibility for damage to persons, animals and property deriving from improper use of the Spray-gun washer and/or from failure to observe the instructions in this manual.

The **Spray-gun washer** has been designed and built by **ANEST IWATA EUROPE** in order to guarantee a high level of protection, efficient operations and conformity with the working parameters provided for **devices group II, category 2** in explosive atmospheres caused by gas, vapour or mist in compliance with Directive 94/9/CE (ATEX).

The **Spray-gun washer** is fitted with protection systems that guarantee the required level of protection also when recurring troubles or working faults of the appliance itself are expected.

Thanks to such design and manufacture, the **Spray-gun washer** can be used in environments where the atmosphere is potentially explosive which are classified according to the following risk areas (Directive 1999/92/CE).

- **ZONE 1** : Area in which - during normal working activities - an occasional explosive atmosphere is to be expected which consists of a composition of air and flammable substances in form of gases, vapours or mists.

The device can always be used in areas where there is a lower risk of explosion, such as in zone 2.

Since the **Spray-gun washer** was built to wash spray-guns using clean water or water-based solvents devoid of inflammable components, there are no restrictions with respect to the installation of other machines near the **Spray-gun washer**.

1.2.1 WASHING PRODUCTS

Spray guns and accessories can be washed with:

- **Clean water.**
- **Water-based solvent. In this case, the mixture must have the following characteristics: pH between 6.5 and 12; absence of inflammable components; if present, their concentration must not exceed 8%.**

The above washing products must comply with the anti-pollution legal requirements as provided for by the laws in force in the Country where the **Spray-gun washer** is being used



WARNING

It is prohibited to use solvent to wash spray guns.

1.3 DESCRIPTION

The **Spray-gun washer** basically consists of a steel container (see fig.1) housing:

- A stainless steel tank to collect the used water (**pos.2 fig.1**).
- A grill (**pos. 6G fig 1**) positioned on the stainless steel tank.
- A nebulizer (**pos.22 fig.1**).
- A small pump (**pos. 21 fig.1**).
- A brush connected to the water mains (**pos.36 fig.1**).
- An air distributor to mix the water with the flocculant powder (**pos. 35 fig.1**).
- A washing tank drain valve (**pos.30 fig.1**).
- A kit to separate the paint from the water (**pos. W50 - W51 - W52 - W53 - fig.1**).
- A hose (**pos.23 fig.1**) for the intake of water for the nebulizer.
- A hose (**pos.7 fig.1**) for the intake of water for the small pump.
- A lower door.

From the upper control panel, the operator can control:

- The clean water pump (**pos.19 fig.1**)
- The clean water nebulizer (**pos. 18 fig.1**),
- The clean water from the water supply of the company (**pos.18C fig.1**).
- The air regulator to mix the used water with the flocculant powder (**pos.1 fig.1**).

SPRAY-GUN WASHER DESCRIPTION (See figure 1):

- 1 Flow regulator
- 2 Stainless steel tank
- 3 Lower door magnet
- 4 Blow gun supply hose.
- 4A Blow gun.
- 6C Stainless steel grill.
- 7 Hose for the intake of water for small pump.
- 7F Intake filter for small pump (only filter).
- 10 Compressed air outlet fitting for air gun.
- 11A Lower door.
- 12 Air inlet fitting with filter.
- 18 Nebulizer control lever.
- 18C Water control lever to the main water supply.
- 19 Small pump control lever.
- 21 Small pump
- 22 Nebulizer.
- 22C Water outlet fitting.
- 23 Nebulizer supply hose.
- 23C Main water supply inlet fitting.
- 23R Water throttle valve (to be connected to the 23C fitting and the main water supply).
- 24 Pump supply hose.
- 30 Wash tank drain valve.
- 35 Air distributor .
- 36 Washing brush
- 74 Earthing cable.
- W-50 Pre-filter bag.
- W-51 Filter bag.
- W-52 Small perforated container.
- W-53 Large container for regenerated water.

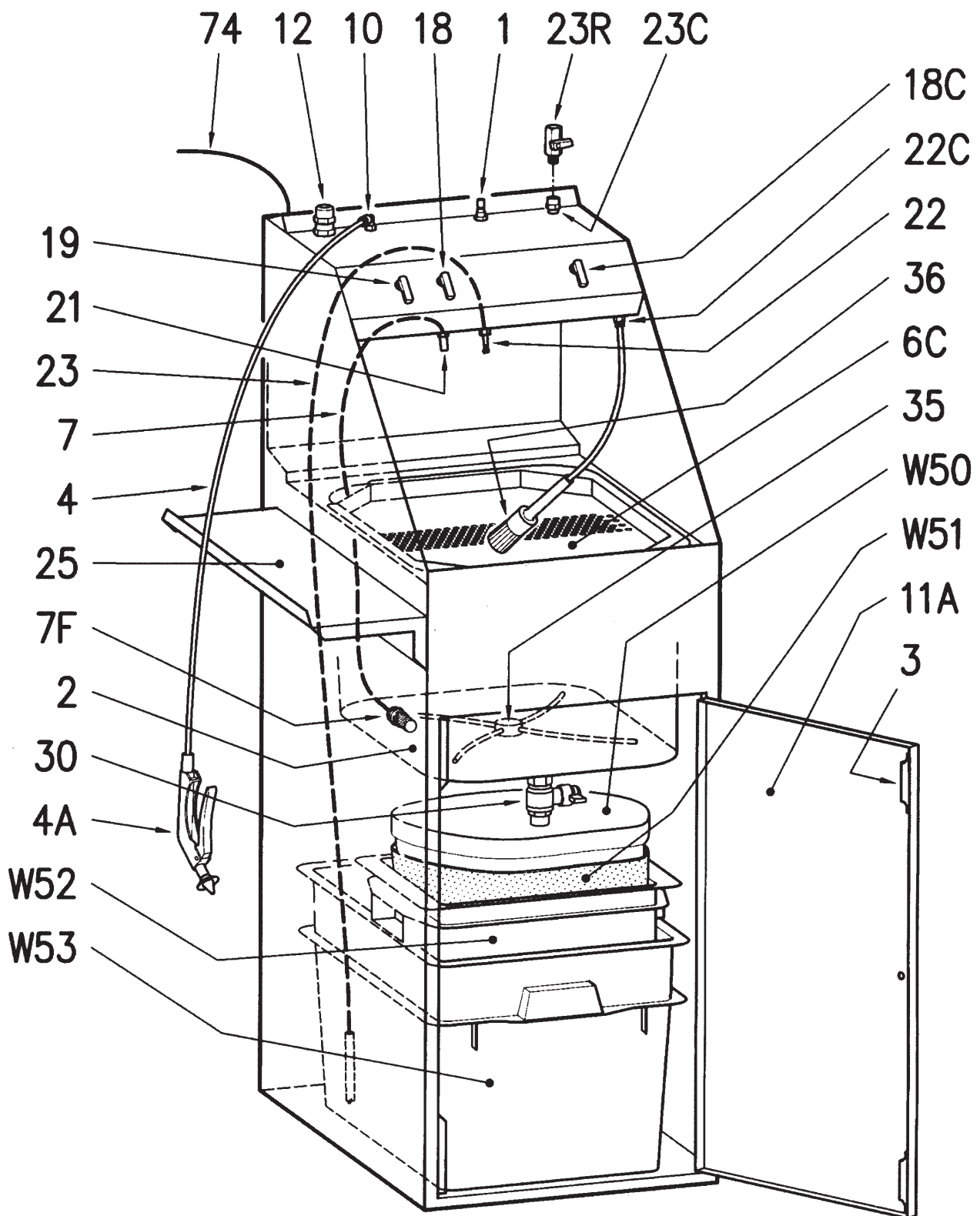


Figure 1

NB. When ordering spare parts, always indicate the:
Model, Serial Number and Construction Year.

1.4. IDENTIFICATION (See fig. A).

Every **Spray-gun washer** has a CE identification plate that shows

- A - Manufacturer's brand.
- B - Manufacturer's name and address.
- C - CE Mark.
- D - Danger Group, Class, Type in compliance with the "ATEX" Directive
- E - Amount of washing product.
- F - Year of manufacture.
- G - Serial number
- H - Model.
- I - Maximum Pressure.

N.B.: The **H - G - F** data listed in the identification plate must be always specified when calling for service and/or supply of spare parts.

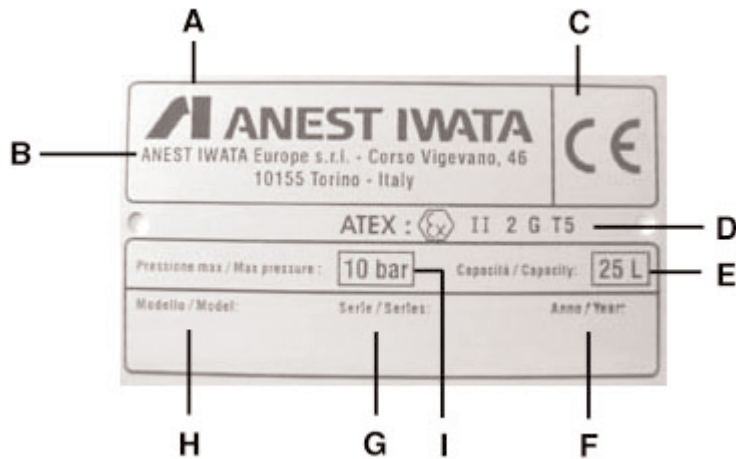


Figure A

1.5 TECHNICAL SPECIFICATIONS

| Description | Measuring unit | Quantity |
|--|--------------------------|----------|
| Mass (Weight). | kg | 44 |
| Height | mm | 1335 |
| Width | mm | 450 |
| Depth | mm | 660 |
| Maximum operating pressure | bar | 10 |
| Feeding air operating pressure. | bar | 6÷10 |
| Recommended pressure when the spray-gun washer is working. | bar | 8 |
| Air consumption (average) at 8 bar. | Nm ³ /h | 16 |
| Capacity of the washing tank (pos.2 fig.1). | dm ³ (litres) | 50 |
| Lower container capacity (pos.W53 fig.1). | dm ³ (litres) | 70 |

1.6. SOUND LEVEL

The sound level emitted by the Spray-gun washer has been measured under working conditions using a sound level meter with integrator.

Measures were taken by a skilled laboratory technician in accordance with EN ISO standard 3746: 1995. Results are as follows:

- Acoustic pressure equivalent average level: LpAm = 74,5 dB (A)
- Acoustic pressure level at the operating post: LpA = 83,8 dB (A)
- Conventional Acoustic pressure level: LwA = 89,4 dB (A)

1.7 DANGER SIGNS AND WARNING SIGNALS

The **Spray-gun washer** carries the manufacturer's identification plate as well as pictograms (labels) that warn against residual risks present on the machine.

Figure 2 indicates the danger signs and signals and shows where the Manufacturer's identification plate is normally placed.

These warning signals have the following meanings:

1. Manufacturer's brand, CE Mark, Model, Serial number and Year of Manufacture, Maximum pressure, Danger Group, Class, Type in compliance with the "ATEX" Directive Group, Amount of washing product.
2. Generic hazard.
3. Read the instruction manual carefully before starting work with the Machine.
4. The use of open flames and smoking near the machine is prohibited.
5. Put on a protective mask before working with the machine.
6. Put on solvent-proof rubber gloves before starting work.
7. Put on protective eyewear before starting work.
8. Disconnect the compressed air supply before starting any maintenance or repair operations in the machine.
9. Ensure that the hoses are well fitted in the drum.
10. Check the water level in the drum periodically to avoid overflows.
11. Indication of correct way to manually wash spray gun.

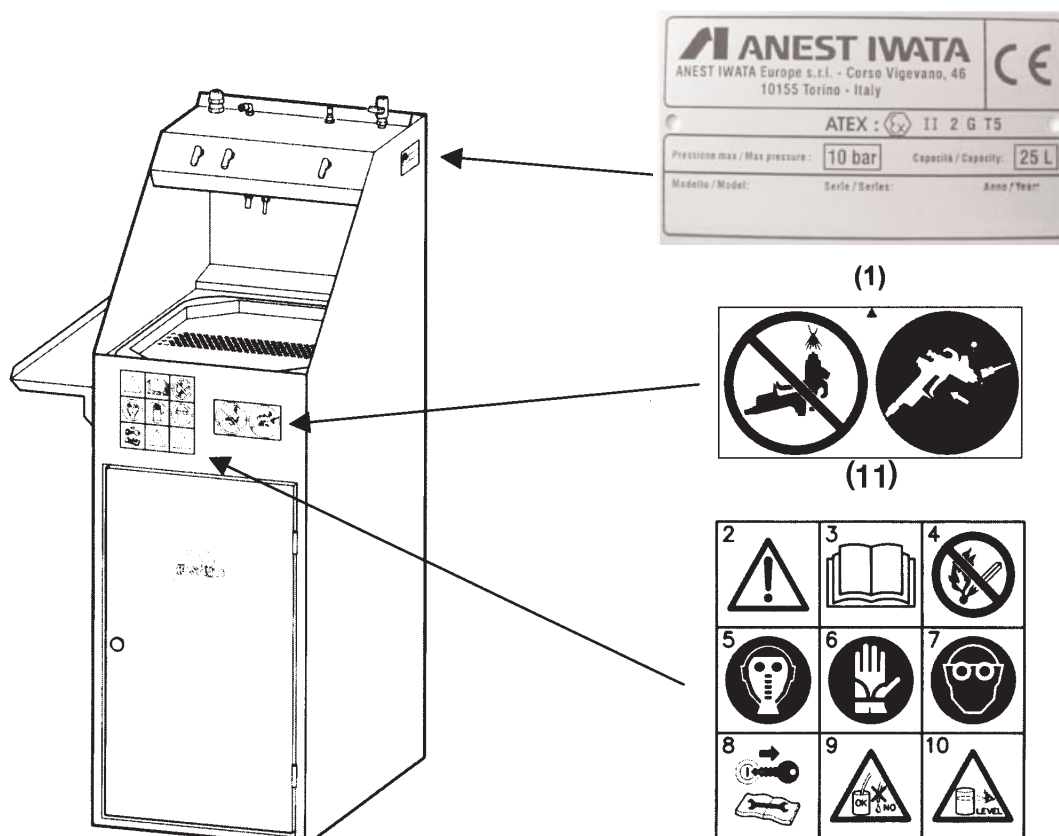


Figure 2

2. GENERAL RULES FOR SAFETY AND ACCIDENT PREVENTION

2.1 LEVELS OF DANGER AND TERMINOLOGY

The safety of operators and persons exposed to the machinery is the primary concern of the designer and builder of the machine. In designing a new **Spray-gun washer**, every attempt is made to prevent any possible situations of danger and risks connected with use of the machine, by applying the appropriate solutions to make the equipment as safe as possible. It is therefore advisable to read this manual carefully, especially this section, which concerns the safety norms, and to avoid inopportune behaviour or behaviour that is not in harmony with the instructions contained herein.

Pay attention to the danger warnings where shown in the Manual and observe all safety provisions. There are three levels of danger signal:



DANGER

This signal warns that improper performance of the procedures that are described can cause severe harm, death or long term health risks. It warns of maximum risk level.



CAUTION

This signal warns that improper performance of the procedures that are described can cause damage to the machine. It warns of a lower risk than the above.



IMPORTANT

Read the following instructions carefully. Failure to apply them can cause harm to persons, animals or damage to property. ANEST IWATA EUROPE declines all liability for damage caused by failure to comply with the following safety and accident-prevention rules and regulations. ANEST IWATA EUROPE also declines all liability for damage caused by improper use of the Spray-gun washer and/or caused by changes to the machine made without the manufacturer's authorisation.

TERMINOLOGY: The following definitions are provided for the terminology used in this manual. The correct explanation of this terminology is necessary to ensure perfect understanding of situations of danger that could arise in using the machine and therefore directly concerns the operator and persons exposed to the machine:

- **OPERATOR:** In a general sense, the person in charge of transporting, installing, adjusting, operating, cleaning and performing ordinary maintenance on the **Spray-gun washer** (Art. 1.1.1., para. 1, attachment I, EC directive 98/37).
- **EXPOSED PERSON:** Any person next to or inside a dangerous area, for any reason whatsoever (Art. 1.1.1., para 2, attachment I, EC directive 98/37).
- **DANGEROUS AREA:** Any area next to or inside the machine, where the presence of an exposed person constitutes a risk for the safety and health of said person (Art. 1.1.1., para 3, attachment I, EC directive 98/37).
- **USER:** The person, organisation or company responsible for the training of workers who must operate the equipment, which has purchased the **Spray-gun washer** in any form or has rented the equipment, which must be used only for the purposes intended by the manufacturer.
- **SPECIALISED TECHNICIAN:** An especially trained and qualified person to perform maintenance intervention or repairs, which require special in-depth knowledge of the machine, its operation, safety devices, dangerous areas and methods of intervention, who is therefore capable of recognising and avoiding dangers arising from use of the machine.
- **AREAS AT RISK OF EXPLOSION:** An area in the environment where the **Spray-gun washer** is operated, where atmospheres with a mixture of gas or explosive vapours could develop under certain atmospheric conditions (Art. 7, EC directive 1999/92).

- **AREA 1:** An area in which the formation of an explosive atmosphere, consisting of a mixture of air and flammable substances in the form of gas, vapour or mist, is likely to occur in normal operation occasionally (Attachment I, EC directive 1999/92).
- **EXPLOSIVE ATMOSPHERE:** A mixture of air under atmospheric conditions, with flammable substances in a gaseous state, vapours or mists, whose combustion after ignition propagates together with the unburnt mixture (Art. 1, para 3, letter c), EC directive 94/9.
- **POTENTIALLY EXPLOSIVE ATMOSPHERE:** Atmosphere which is likely to transform into an explosive atmosphere due to local operational conditions (Art. 1, para 3, letter c), EC directive 94/9.
- **FLAMMABLE SUBSTANCE:** A liquid preparation having a flame or ignition point equal to or greater than 21° C and lower or equal to 55° C (EC directive 67/548).
- **pH:** Measurement that expresses the acidity of a solution. The pH scale ranges from 0 to 14. For pure water the pH value = 7. When pH is above 7 the solution is alkaline; when it is less than 7 the solution is acid

2.2 CLOTHING

The type of clothing depends on the work that must be carried out. When using the **Spray-gun washer** and relevant products, comply with the regulations below:

- **It is forbidden** to use cell phones in environments where a mixture of flammable gasses or vapours may be present. It is advisable not to have a cell phone with you. If you have a cell phone with you, it must be turned off.
- The operator **must** wear solvent-proof rubber gloves to prevent contact between his hands and the products used for washing.
- The operator **must** always wear protective eyewear to prevent the solvent coming into contact with his eyes.
- The operator **must** use a protective mask to avoid inhaling gas and dust.
- **It is mandatory** that all operators within the risk area where an explosion may occur wear suitable clothes and shoes that prevent any accumulation of dangerous electrostatic charges.

2.3 ECOLOGY AND POLLUTION

- **The Spray-gun washer must not** be used to wash or degrease objects designed to come into contact with foodstuffs.
- **Comply** with Laws in the country where the **Spray-gun washer** is installed regarding use and disposal of washing products. Comply with the recommendations given by the manufacturer of these products.

2.4 STANDARDS FOR SAFE OPERATION

- The **Spray-gun washer** was designed and built to be used in an environment in which an explosive atmosphere, consisting of a mixture of air and flammable substances in the form of gas, vapour or mist, is likely to occur in normal operation occasionally: the **Spray-gun washer** guarantees a normal level of protection in conformity with **equipment group II, category 2, in accordance with EC directive 94/9**.
- The **Spray-gun washer must be exclusively used** for the purpose for which it was designed and built, i.e. to wash spray-guns and small containers and objects dirty with paint.
- **It is prohibited** to use solvents or products that are not in conformity with the specifications indicated in this manual, or which do not comply with legal norms.
- **It is prohibited** to use solvents that have a pH value of less than 6.5 or greater than 12 for washing operations. If the mixture contains flammable substances, the concentration must not exceed 8%.
- **It is strictly forbidden** to let the **Spray-gun washer** be used by persons who have not fully read, understood and perfectly grasped the contents of this instruction manual.
- The use of the **Spray-gun washer** by incompetent or inadequately trained personnel or by persons not in perfect health is strictly forbidden.
- **Do not** punch and scratch metal parts on the **Spray-gun washer** walls: this might cause sparks.
- **It is forbidden** to rest objects over 10 kg weight on the **Spray-gun washer** grill (**pos. 6G fig. 1**).
- **It is forbidden** to connect and disconnect too often the air supply hose from the fitting (**pos. 12 fig. 1**).
- **It is forbidden** to place nylon, plastic, glass wool, fiberglass or similar over or next to the **Spray-gun washer** to prevent the formation of electrostatic charges.
- **It is forbidden** to use plastic drums (**pos.27 and 28 fig.1**).
- **It is forbidden** to use welders or open flame appliances and handle incandescent materials in the area where the **Spray-gun washer** is installed.
- **Make sure** all safety devices are in perfect operating condition before starting to use the **Spray-gun washer**.
- **You must make sure** not to splash and spill their contents on the workshop floor when loading and unloading.
- **It is obligatory** that the operator intending to use the **Spray-gun washer** is sure to have eliminated any eventual electrostatic charges accumulated accidentally, before starting work.
- Before using the **Spray-gun washer** it is obligatory to connect the external earthing cable (**pos. 74 fig. 1**) to the workshop plant.
- Before using the **Spray-gun washer**, you **must** ensure that the supply and discharge hoses (**pos.7-23 fig.1**) are well inserted in their containers; be careful to avoid hose bending; make sure that they are not damaged.
- **It is mandatory** that you check periodically that the water level inside the drums (**pos.2 fig.1**) is not too high to avoid overflow.
- **It is recommended** that you become familiar with controls and their functions before starting to work.
- **It is recommended** that you replace the dirty water whenever necessary, recovering the water by using the specific Kit, or by delivery to a specialised waste treatment company.
- **It is recommended** that before draining the dirty water from the tank (**pos.2 fig.1**) you make sure that the two containers (**pos. W52-W53 fig.1**) and the pre-filter (**pos. W50 fig.1**) and the filter (**pos. 51 fig. 1**) are positioned under the valve (**pos.30 fig.1**). Open the valve (**pos.30 fig.1**). Let the dirty water drain slowly to avoid overflows.
- **It is obligatory** to follow the indications in this manual, (position of spray gun) when using the manual procedure for cleaning spray gun.
- **It is recommended** that you replace the prefilter (**pos.W50 fig.1**) at each discharge operation and that when the dirty water is filtered from the tank (**pos.2 fig.1**).
- If the machine is not used for a long period, **it is recommended** that you drain the tank (**pos. 2 fig 1**) and rinse with clean water. When the tank has drained completely, remove the air supply.
- If the washing product comes into contact with eyes or skin, wash the contaminated parts with abundant fresh water.



DANGER

It is forbidden to spray and/or blow with the gun aimed at the operator or other persons:
THIS COULD CAUSE SERIOUS DAMAGE TO HEALTH.

Before using the Spray-gun washer, ensure that the following measures are taken:

- It is **forbidden** to use water to extinguish fires. If the materials come in contact with water, it could generate noxious or flammable gases or greatly increase in temperature.
- Suitable fire extinguishing systems, including portable fire extinguishers for first aid purposes, **must be** installed depending on the conditions in which they will be used. These appliances must be kept in working order and inspected at least every six months by an expert.
- It is **mandatory** that in case of an emergency that personnel get easily and quickly away from danger zones.

2.5 DEMOLITION AND DECOMMISSIONING.

Upon demolition or decommissioning of the **Spray-gun washer**, we recommend that you take the necessary precautions to avoid danger to exposed persons and the risk of environmental pollution:

- Disconnect the **Spray-gun washer** from the pneumatic energy source and discharge the residual energy accumulated.
- Residual liquid possibly left in the sink and hoses of the equipment must be carefully drained.
- The other parts of the **Spray-gun washer** must be treated in accordance with the regulations for special waste. Proceed by disassembling the machine: group the various units and parts into homogeneous lots and provide for their disposal separately, in accordance with environmental protection laws in the country where the machine is installed.

In general, please bear in mind that:

- **Plastic or rubber parts are special waste.**
- **Ferrous scrap and carpentry are special waste.**

3. SHIPMENT AND UNLOADING

The **Spray-gun washer** is shipped in a carton with the markings < fragile > and < keep upright >. With the use of a cart, move the **Spray-gun washer** near to where it is to be installed, take it out of the carton and pallet and make sure that no damages have occurred during shipment.

4. POSITIONING

It is **obligatory** to place the **Spray-gun washer** on a smooth, horizontal surface, in an environment with a temperature between 0° C and 60° C. The **Spray-gun washer** was designed and built to be used in an environment in which an explosive atmosphere, consisting of a mixture of air and flammable substances in the form of gas, vapour or mist, is likely to occur in normal operation occasionally: the **Spray-gun washer** guarantees a normal level of protection in conformity with **equipment group II, category 2, in accordance with EC directive 94/9.**



WARNING

The air pressure must be limited to not more than 10 bar. If the air supply is at a higher pressure, install a filter-regulator-reducer unit with a pressure gauge and adjust the pressure to 8 bar.

4.1 CHECKS BEFORE EQUIPMENT INSTALLATION

Before installation, check that the air supply pressure to the **Spray-gun washer** is at least 8 bar. If not, install a storage tank to ensure sufficient autonomy for the **Spray-gun washer**.



WARNING

All the following operations of installation, adjustment and testing must be carried out exclusively by qualified and responsible personnel who can guarantee application of safety standards in the mechanical and compressed air fields.

4.2 INSTALLATION

Comply with the following instructions when installing the **Spray-gun washer**:

- Remove the cardboard packing. Two persons can use a hand trolley to move the appliance to the desired installation site and to a perfectly flat area. Connect the earthing cable (supplied, yellow and green) to the bolt near the compressed air inlet fitting (**pos.12 fig.1**) and to ground.
- Using Teflon tape, install the air-gun fitting (**pos.4A fig.1**).
- Connect the blowing gun supplying hose (**pos. 4 fig 1**) to the air outlet fitting (**pos. 10 fig 1**).
- Connect the external ground cable (**pos. 74 fig.1**) to the workshop system.
- Install the flow regulator valve (**pos.23R fig1**) to the water inlet valve (**pos.23C fig.1**) and connect it to the water mains.
- Pour approximately 10 litres of water into the tank (**pos.2 fig.1**) and approximately 30 litres into the tank (**pos. W53 fig.1**). Insert the hoses (**pos.23 and 24 fig.1**) in the tank itself.
- Adjust the fresh water flow by means of the valve (**pos.23R fig.1**).
- Before use, we suggest a peelable paint be applied to the inside walls of the tank to facilitate periodical cleaning.
- Connect the filtered air delivery hose to the fitting (**pos.12 fig.1**). The hose shall have an inside diameter of at least 8-mm. We recommend that you use a fast-connecting fitting for air delivery in order to facilitate the periodical lubrication (3-4 times a year) with nebulizer oil.

5. INSTRUCTIONS FOR USE

Remove the spray gun cover, empty the remaining contents in an external recipient, remove the paint cup and set the parts on the grill (**pos.6G fig.1**).

Operate as follows:

- Wash the parts with a brush employing the used water in the tank (**pos.2 fig.1**)
- Wash the parts again using the nebulizer (**pos.22 fig.1**).
- Use the small pump (**pos.21 fig.1**) to take water from the tank and spray the parts.
- Last, wash the parts with the washing brush (**pos.36 fig.1**).
- Pull the trigger of the spray gun to be cleaned and using the air gun (**pos.4A fig.1**) blow in the paint channel and blow off all the outside of the spray gun for final drying.



CAUTION

IT IS FORBIDDEN to point nozzle upwards whilst cleaning spray gun . Check periodically the conditions of the label which shows the position of the spray gun during manual washing (**pos.11 fig.2**); replace if it is necessary.

6. SEPARATING THE PAINT FROM THE WATER

Operate as follows:

- Remove the grill (**pos.6G fig.1**) from the tank, pour the flocculant in the dirty water and mix by hand until wet.
- Adjust the airflow with the regulator (**pos. 1 fig.1**), to avoid water overflow from the tank. After 8-10 minutes mixing, close the air and check that the paint is well coagulated. If not repeat the operation.
- Open the regulator (**pos.1 fig.1**) again with the water and coagulated paint still moving, open the valve (**pos. 30 fig 1**) to pour the mixture in the pre-filter bag (**pos. W50 fig.1**).
- Open the water regulating valve (**pos. 23R fig. 1**) as much as possible, open the valve (**pos. 18C fig. 1**) and, with the brush (**pos. 36 fig.1**) rinse the washing tank (**pos. 2 fig 1**).
- After filtering the water, pour the sludge from the filter in an outside container and deliver to a specialised waste treatment company. The water in container (**W53**) can be re-used.
- Before starting again with the **Spray-gun washer**, pour with the brush (**pos. 36 fig. 1**) approximately 10 litres of water in the wash tank (**pos. 2 fig 1**) and approximately 30 litres in container (**pos. W53 fig.1**).
- Replace the grill (**pos. 6G fig 1**).

N.B. : For an ideal coagulation, do not add water and paint with other products (ex. solvent, detergent, additives, etc) in the washing tank. (pos.2 fig.1)

7. HYDROPNEUMATIC SYSTEM (see fig 3)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Air filter. 2. Bottle neck.(1.8 mm) 3. Air gun. 4. Flow regulator. 5. Air distributor. 6. Wash tank. 7. Water discharge ball valve. | <ol style="list-style-type: none"> 8. Clean water tank. 9. Control ball valve. 10. Nebulizer. 11. Control ball valve. 12. Small pump. 15. Ball valve (water control). 16. Water throttle valve. 17. Brush with fresh water outlet. |
|--|--|

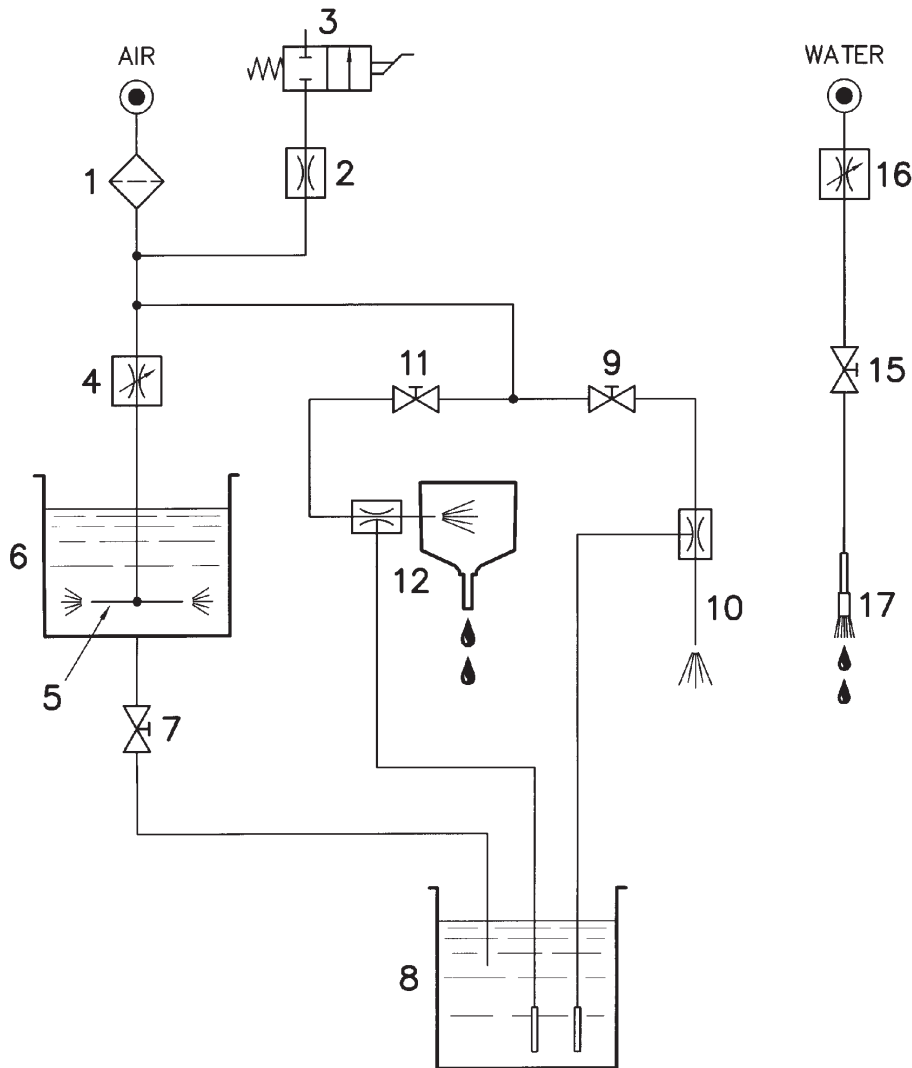


Figure 3

7.1 OPERATION

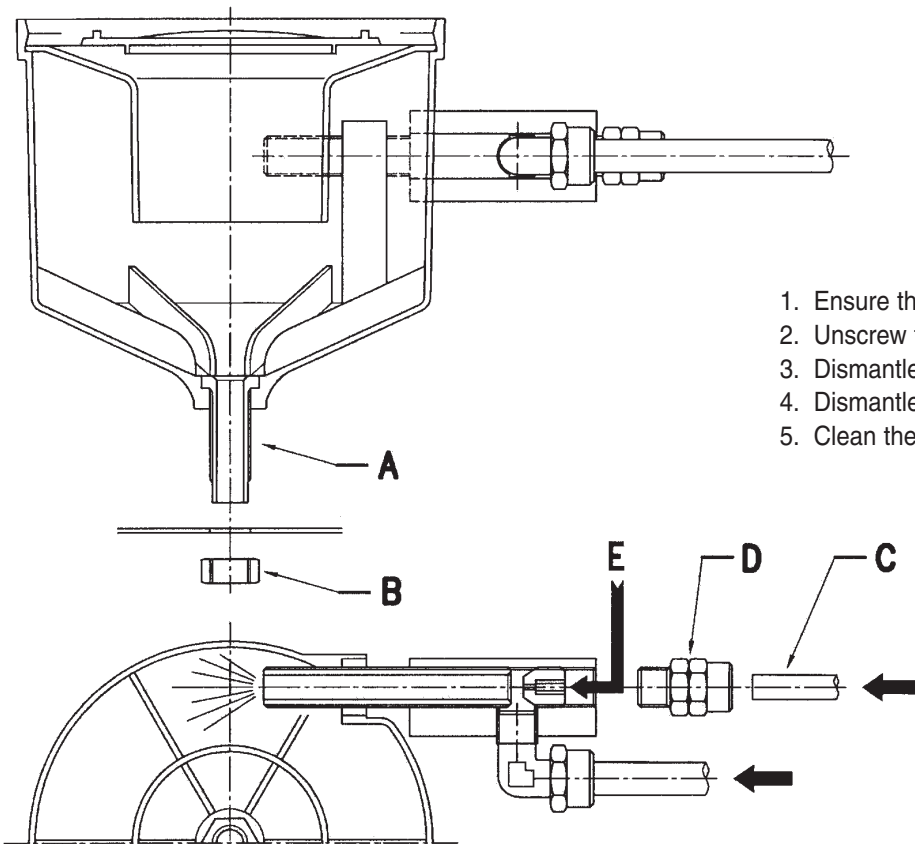
The compressed air inlet passes through the filter (1) and feeds the bottle neck (2), the air gun (3), the flow regulator (4) and the ball valves (9) and (11). Valve (9) supplies the nebulizer (10). Valve (11) supplies the small pump (12). The flow regulator (4) supplies the distributor (5). The ball valve (15) controls the water supply of the company, which is regulated by the valve (16) and is connected to the brush (17). Valve (7) drains the dirty water from tank (6) to the recovered water tank (8).

8. MAINTENANCE AND PERIODICAL CHECKS

The following ordinary maintenance procedures must be performed. Extraordinary maintenance (repair of basic machine components) must be carried out by qualified personnel only, according to the listed instructions in this manual.

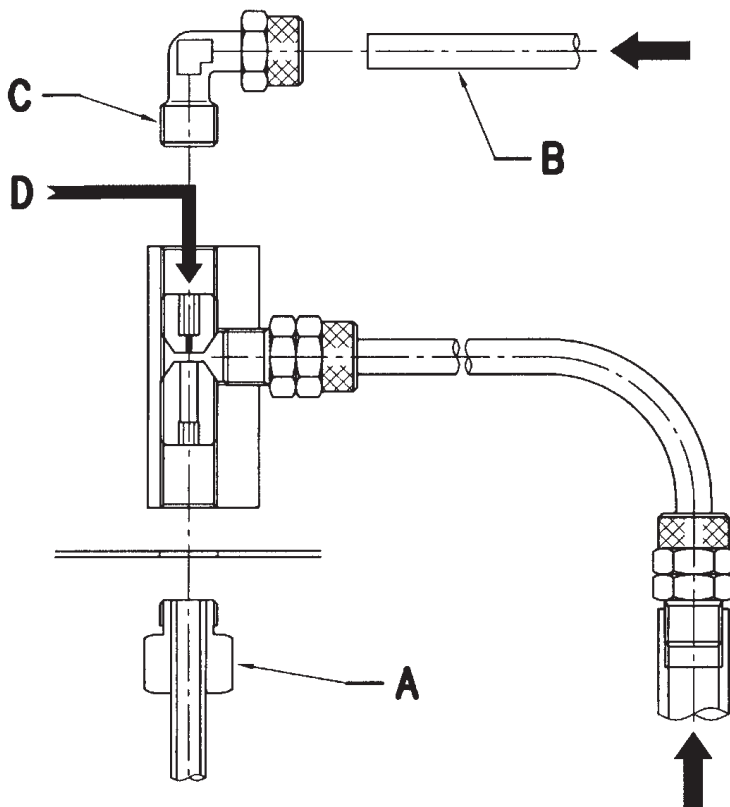
- **Disconnect the compressed air supply before carrying out any repair or maintenance work.**
- Check periodically that safety devices are in good repair and work satisfactorily.
- Never remove or tamper with any safety devices.
- The pictograms (labels) applied to the **Spray-gun washer** provide suitable indications for the avoidance of accidents. These pictograms must be kept clean and replaced immediately if even partly missing or damaged. The use of the **Spray-gun washer** is absolutely prohibited if even one only of the diagrams is missing from the point where it was placed by the manufacturer.
- During repair and maintenance use only original spare parts.
- Check that the machine is always connected with the earthing cable.
- Remove any encrustation from the grill (**pos.6G fig.1**).
- Check and clean periodically the air inlet filter, which is inside the fitting (**pos.12 fig.1**), if possible without removing the fitting itself.
- Check that the water level in the wash tank (**pos.2 fig.1**) is not over the grill placed above (**pos.6G fig.1**).
- Check that the hoses (**pos. 23 and 24 fig.1**) are not bent, worn or broken and that they are well inserted in tank (**W53 fig. 1**).
- Clean and rinse the wash tank, when removing the dirty water (**pos.2 fig.1**).
- Replace the pre-filter bag (**pos.W50 fig.1**) after each filtration.
- Clean or replace the filter bag (**W51**).

8.1 CLEANING THE SMALL VENTURI PUMP



1. Ensure that the discharge hose **A** is not obstructed.
2. Unscrew the nut **B**.
3. Dismantle the hose **C**.
4. Dismantle the fitting **D**.
5. Clean the nozzle **E** with an iron thread.

8.2 CLEANING THE NEBULIZER



1. Dismantle the fitting **A**.
2. Dismantle the hose **B**.
3. Dismantle the fitting **C**.
4. Clean the nozzle **D** with an iron thread.

9. LIST OF SPARE PARTS

When ordering spare parts, cite as well as the code number, the CE plate data:
Model - Serial Number - Year of Manufacture.

| Code | Description |
|-------------|--|
| 1 | Flow regulator |
| 3 | Lower door magnet |
| 4 | Air blow gun supply hose |
| 4A | Air blow gun |
| 6C | Stainless steel grill |
| 7 | Hose for the intake of water for small pump. |
| 7F | Intake filter for small pump (only filter). |
| 10 | Compressed air outlet fitting |
| 11A | Lower door |
| 12 | Air inlet fitting with filter |
| 18K | Control panel kit with lever |
| 18L | Control levers only |
| 18C-K | Control valve kit with lever |
| 18C-L | Control lever only |
| 21 | Small pump |
| 22 | Nebulizer |
| 22C | Spray nozzle |
| 23 | Nebulizer supply hose |
| 24 | Small pump supply hose |
| 30 | Wash tank drain valve |
| 35 | Air distributor |
| 36 | Washing brush |
| W-50 | 5 prefilter bags kit |
| W-51 | Filter bag |
| W-52 | Small and perforated container |
| W-53 | Large regenerated water tank |



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