



# BIOspray DISINFECTION MACHINE

## USER MANUAL

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**MACRO TEKNİK/ HSC İLAÇLAMA MAK. TIC. LTD. STİ**  
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*Prior to operating the unit, please read the owner's manual carefully, and most importantly, observe all safety rules. Observe the maintenance guidelines closely to ensure the long service life of your equipment. Your dealer will be glad to assist you with any questions.*

**EC declaration of conformity** - The EC declaration of conformity **on a separate piece of paper** forms part of these operating instructions.

**Packaging and Disposal**

Please keep the original packaging in order to protect the equipment against transport damage in case you ever need to ship it or transport it. If the packaging materials are no longer required then they must be disposed of properly in accordance with applicable local regulations. Cardboard packaging materials are raw materials which can be recycled or reused. At the end of the equipment's service life, please make sure that you dispose of it properly, in accordance with the official directives and regulations that apply in your area

**Symbols**

The following symbols are used in this manual and on the product:



Always handle this power tool with particular care



Thoroughly read these operating instructions before undertaking any maintenance, installation and cleaning steps



Wear protective gloves when handling and working with the equipment



A breathing mask should be worn when using poisonous chemicals



Pesticides can be flammable.

**Labeling**

	<b>MACRO TEKNİK MUHENDİSLİK</b>	
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Description	Disinfection Machine	
Model	Biospray	
Type		
Seri No:		
Production Date		

In the best interest of continued technological progress we reserve the right to change the design and configuration of any product without prior notice. For that reason, no claims can be accepted with reference to text and illustrations in this manual

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## **2. Workshop service, replacement parts and guarantee**

### **2.1. Maintenance and Repair**

Maintenance and repair of modern Biospray Disinfection Machine, as well as their safety-relevant assemblies, require qualified, specialized training and a workshop equipped with special tools and test devices. Thus Macro Teknik / HSC recommends that you have a specialized Macro Teknik / HSC workshop carry out all work that is not described in these operating instructions. Your Macro Teknik/ HSC specialist has the required training, experience, and equipment at his disposal to provide you with the most cost-effective solution and can help you in many ways with advice and service.

### **2.2. Replacement Parts**

Dependable operation and the safety of your device also depend on the quality of the replacement parts that you use. Use only original Macro Teknik/ HSC replacement parts. Only original parts come from the production of the device and thus guarantee the highest possible material quality, dimensional accuracy, function, and safety. Original replacement parts and accessory parts are available from your dealer. He also maintains the requisite replacement part lists to determine the required replacement part numbers, and he is constantly provided with information concerning detail improvements and innovations in the replacement part offering. Please note as well that guarantee performances from Macro teknik/HSC are not possible if parts other than Macro teknik/HSC original parts are used.

### **2.3. Guarantee**

Macro teknik/HSC guarantees problem-free quality and will assume the costs for defect remediation by replacing the defective parts in the case of material or manufacturing defects that occur within the guarantee period after the date of purchase. Please note that specific guarantee conditions apply in some countries. Ask your sales person if you have any questions. As vendor of the products he is responsible for the guarantee. We request your understanding that no guarantee can be assumed for damages due to the following:

- Non-compliance with the operating instructions.
- Neglecting required maintenance and repair work.
- Normal wear and tear.
- Obvious overload through persistently exceeding the upper performance limits.
- The use of force, improper handling, misuse, or accident.
- Intervention by non-specialized persons, or improper repair attempts.
- The use of unsuitable replacement parts or parts other than Macro teknik/HSC original parts to the extent that they cause damage.
- Using none liquid based solution.
- Using unsuitable solution has been stored too long.
- Damages that can be traced to implementation conditions from the rental business.

Cleaning, care, and adjustment work are not recognized as guarantee performances. All guarantee work must be carried out by a Macro teknik/HSC dealer.

**3. Important Components**



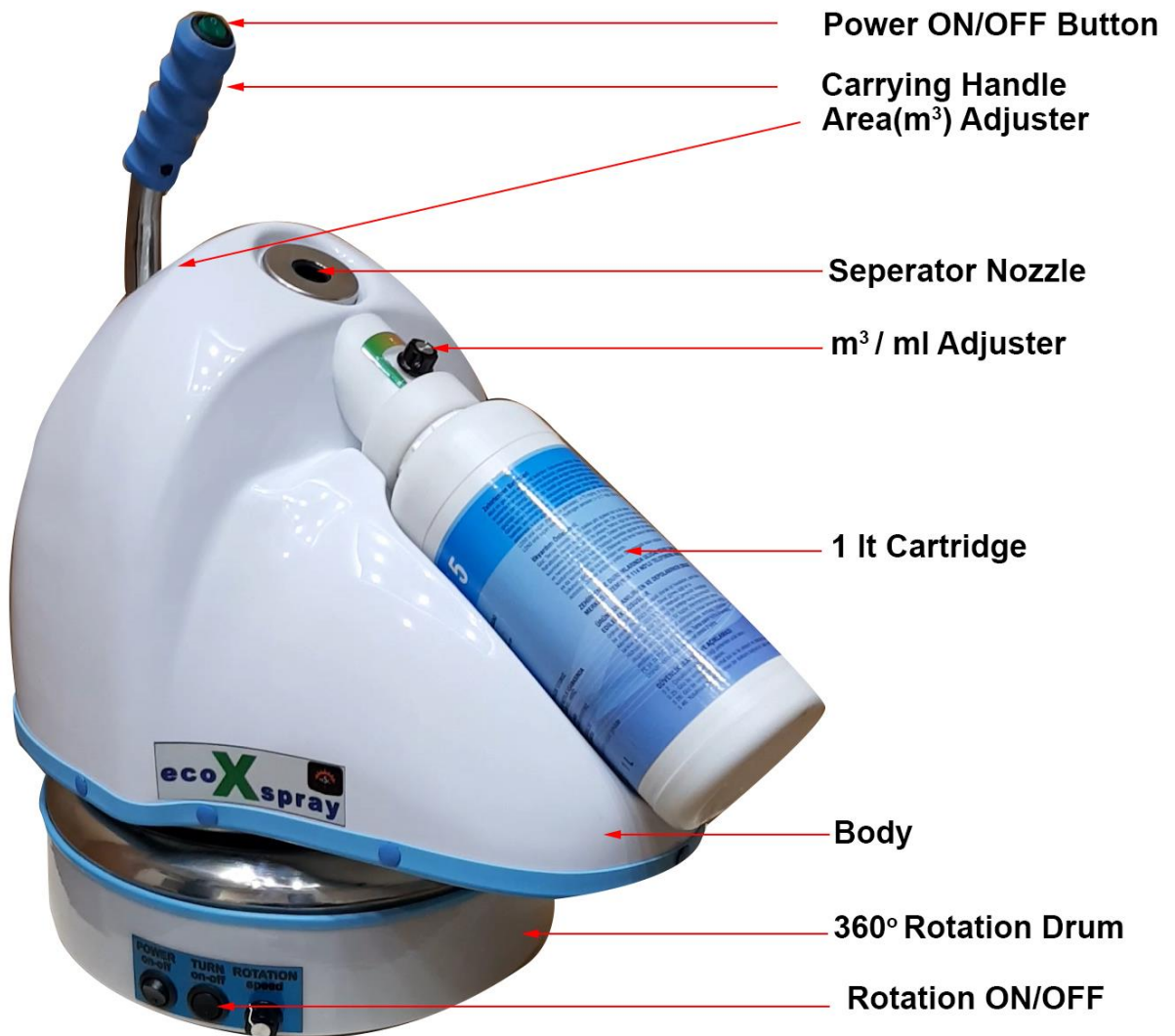
Area ( $m^3$ ) adjuster



( $m^3/ml$ ) adjuster



Suction pipe



## 4. Safety regulations

### 4.1. Correct use / Application

The machine may only be used for the following areas of application:

- Biospray Disinfection machine is suitable for applying disinfectant, detergents approved by the national regulatory authorities. Closely observe the instructions provided by the disinfectant manufacturer. Within certain limits, the amount to be applied is subject to the position of the machine.

According to its type designation, this equipment is for suitable for air and surface and it can be used:

Hospitals, laboratories, urban vehicles, depots, warehouses, nurseries, restaurants so on. Biospray disinfection machine may only be used for the jobs it has been designed for – **and no other!** Always observe all safety hints while using the machine.

- Biospray Disinfection machine designed for wet and dry disinfection according to requirements. You can adjust the disinfectant amount  $1\text{m}^3/1\text{ml}$  up to  $1\text{m}^3/6\text{ml}$  by using ( $\text{m}^3/\text{ml}$ ) adjuster. Between  $0-2\text{ml} / \text{m}^3$  for dry disinfection acceptable.  $2-6 \text{ ml} / \text{m}^3$  wet disinfection acceptable.

### 4.2. General safety instructions

Read the operating instructions carefully before placing in service and keep them in a safe place. First time users should be instructed by the seller or an expert.

The operator is liable towards others within the operating area of the Biospray. Only operate the disinfection machine when in good physical condition. Fatigue and illness lead to carelessness and accidents.

Proceed in a careful and alert manner.

- Never use a machine while under the influence of alcohol or drugs.
- The air exit speed from the nozzle is very high. Never point the nozzle towards persons or animals.
- Do not spray near open flame.
- Against danger of overturn, Never place the disinfection machine on uneven ground



- Wear appropriate protective clothing which covers all body parts. This includes gloves, head protection, foot protection, body protection and possibly an apron or breathing mask. Clothing should be suitable, i.e. tight without being obstructive. Do not wear a scarf, necktie, jewellery or any clothing which can get caught on shrubs or branches.



- Wear firm shoes with good traction, preferably safety shoes.

Wear protective gloves with non-slip grip.



When using spray medium that can be hazardous to health, wear a breathing mask to prevent poisoning.

- Any clothing soaked with chemical should be changed immediately. Always observe accident prevention regulations issued by local trade organizations or workers compensation boards.

## 4.3. Protection of Environment

### Be aware of your surroundings

- Watch out for animals which may be within your work area
- Be aware that noise is harmful to the environment. Inquire about and respect possible local rest periods.

## 4.4. Operating Hints

- No other persons should be present within a circle of 100 meters while the machine is running. Watch out for children and animals. Objects carried by the air stream can deflect and injure nearby persons.
- Never operate on unstable ground
- Biospray Model Disinfection machine are able to run with all kind of liquid based detergents or disinfectant. Therefore always consider instruction of the chemical which provides by the manufacturers.

## 5. Maintenance and care

Any cleaning, maintenance or repair jobs should only be performed when the machine is stopped. Any service jobs, other than those described in this manual, should only be carried out by an authorized service center. Only original parts may be used for any maintenance and service work. Never modify Biospray – your personal safety is at risk.

## 6. STARTING MACHINE

### STARTING .

1. Discharge the cartridge by turning counter clockwise



2. Fill the cartridge with the liquid based disinfectant and replace it
3. Plug the machine into a grounded outlet.

4. Calculate the area size by multiplying Length, Width and Height. It must be calculated before run the biospray and set the Area ( $m^3$ ) adjuster.



5. Adjust the  $m^3/ml$  according to needed disinfectant amount.



6. On the Power and Rotation button and discharge the area. Biospray will start automatically 30 seconds later.
7. The machine will stop automatically after disinfection stopped.
8. You can use the area after 30 minutes later.

## 7. Technical Specifications

- 6,1 kg Weight
- 1100 Watt 220 V AC 50-60 Hz Electric motor
- Adjustable Rotation Speed
- Assurance of homogeneous fogging distribution through 360° Rotation drum
- Dry and Wet mist projection by Venturi effect up to 15 meters from the appliance
- Speed of mist flow rate 80 m/s
- Particule size : 7-20 micron
- Interchangeable cartridge 05-1 lt.
- 0,5-1-2 ml for 1 m<sup>3</sup> according to adjustable particule size .
- Programmable indoor volume between 0-1000 m<sup>3</sup>



## 8. Troubleshootings

Problem	Reason	Solution
Machine is not working	No Energy	Check the Energy
	Power Button OFF	Take the ON position
	Engine is faulty	Call the Service
Rotation is not working	Button OFF	Take the ON position
	Engine is faulty	Call the Service
Not spraying	m <sup>3</sup> /ml adjuster is OFF	Adjust
	Suction pipe is choked	Clean the pipe
	No liquid in the cartridge	Fill the cartridge
	Application stopped early	Adjust m <sup>3</sup>
	Air filter is extremely dirty	Call the Service .