



# BioSpray<sup>®</sup>-5 BioSpray<sup>®</sup>-5-BP Surface Sanitation System

## Operating and Maintenance Instructions



Read before operating.

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Thank you for purchasing this Goodway Surface Sanitization System. We appreciate your business and look forward to serving you in the future. As with all Goodway products, you can be assured that the finest quality components and workmanship have gone into this machine.

Please take a few minutes to read the following Operating and Maintenance Instructions. Please pay particular attention to the safety instructions and exercise caution when using this machine.

## **GOODWAY® TECHNOLOGIES CORPORATION** HVAC & FACILITY MAINTENANCE SOLUTIONS

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## GENERAL

This BioSpray®-5 and BioSpray®-5-BP units are designed for intermittent use and will come with a 5 lb capacity CO<sub>2</sub> tank.



## IMPORTANT SAFETY INSTRUCTIONS

To prevent operator injury and damage to the equipment, please read and observe the following basic safety precautions:

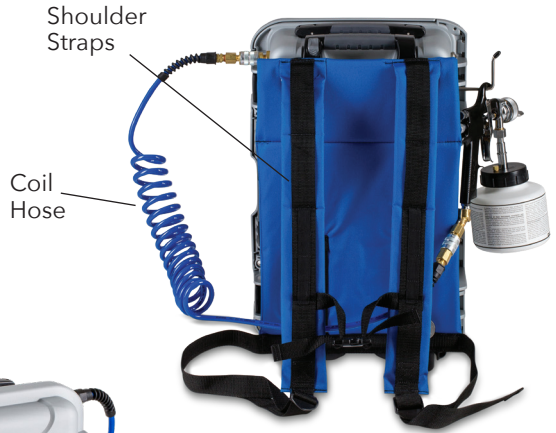
1. Read and understand all instructions before using.
2. Keep this manual with the unit at all times.
3. Do not operate without eye protection or other necessary protective gear. Consult SDS for all chemicals and for CO<sub>2</sub> and OSHA exposure limits.
4. Consult Goodway or chemical manufacturer about mixing or using unspecified chemicals with this unit.
5. Service must be performed by qualified personnel.
6. Use only Goodway specified replacement parts.
7. If the machine does not operate properly or has been damaged or exposed to water, return it to factory for service.
8. Do not use unit with children or visitors in the immediate area.
9. Do not aim the spray toward electrical receptacles or in a direction not intended.
10. Do not operate unit when fatigued or under the influence of alcohol or drugs.
10. Keep operation area clear of all persons.
11. Do not over reach or stand on unstable support. Keep good footing and balance at all times.
12. Follow maintenance instructions in manual.
13. Stay alert - watch you are doing.
14. Make sure that all CO<sub>2</sub> tanks are kept in an OSHA approved area and are supported so they don't tip over. Refer to OSHA section 1910.101 - Compressed Gases (General Requirements).
15. Establish if the environment is safe for operation.
16. Operate only in a well ventilated area.
17. Ensure that the CO<sub>2</sub> tank doesn't have a dip tube.

SAVE THESE INSTRUCTIONS

# IDENTIFYING MAIN PARTS



**BioSpray-5**



**BioSpray-5-BP**



## INSTALLATION/SETUP

1. Remove from packaging and inspect unit. If anything is damaged, contact Goodway Technologies.
2. Place the surface sanitization system on a flat surface.

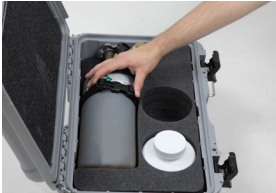
### INSTALLING THE CO<sub>2</sub> TANK:



1. With the BioSpray-5 lying flat, unlock the latches and open the cover.



2. Tighten the hand nut on the full CO<sub>2</sub> tank.



3. Lay the CO<sub>2</sub> down and strap the unit in place with the buckles.



4. The hose that is connected to the hand nut should have a small loop in it as shown.

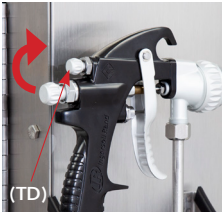


5. Close the cover and then lock the latches in place.

# OPERATING INSTRUCTIONS

1. Attach Goodway approved formula to spray gun. **NOTE:** To do this, carefully remove the foil seal on the top of the bottle, making sure that no debris gets into the bottle, as that will impede the spraying. Be careful not to overtighten the bottle, it only has to be snug to seal.
2. Connect the spray gun to the coil hose.
3. Connect the coil hose to the outlet connector on the side on the unit.
4. Open the CO<sub>2</sub> tank valve by turning it counter clockwise  $\frac{3}{4}$  - 1 turn.
5. Verify that the tank pressure reads between 800-1000 PSI (55-69 BAR).
6. Verify that the unit is in a vertical position. **DO NOT** spray while the unit is lying on the floor.
7. Spray evenly in an overlapping pattern until surface remains thoroughly wet.
8. For best results, we recommend BioSpray®-D2 or other Goodway approved chemicals.
9. BioSpray-5-BP only: when using the backpack straps, tighten both the shoulder straps and the chest strap so the unit rests comfortably on the users shoulders.

## SPRAY GUN SETTINGS:



1. The top dial (**TD**) on the back of the spray gun should always be completely closed by turning the dial fully **CLOCKWISE**



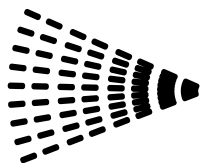
2. The bottom dial (**BD**) on the back of the spray gun controls the amount of formula to be sprayed. Before proceeding to step 3, begin by ensuring the dial is completely closed by turning the dial fully **CLOCKWISE**.



3. Open the bottom dial (**BD**) by turning it **COUNTER-CLOCKWISE** to the desired number of rotations for sanitation or disinfection. Count the number or rotations made by using the indicator mark (**IM**) located on the back of the bottom dial (**BD**). As listed on the siphon assembly cap (**SC**) for standard settings of a 24" (61cm) spray distance at 72° F (22° C), turn the bottom dial (**BD** Above) **COUNTER-CLOCKWISE: 1.5 Turns** for Sanitization **3.0 Turns** for Disinfection.

## SPRAYING PROTOCOL:

Do not apply near an ignition source.



Spray evenly in an overlapping pattern until surface remains thoroughly wet for the desired time:

At the proper setting listed in '**Spray Gun Settings**' Step 4, you should only have to make one pass in an overlapping pattern to apply enough solution to remain on the surface for the dwell time required.

1 SQ. FT.

## SHUT DOWN PROCEDURE:

1. Rinse the gun with clean water using the provided rinse bottle for 30 seconds.
2. Close the tank valve by turning it clockwise.
3. Squeeze the trigger of the spray gun half way to release the gas pressure in the coil hose.

## CO<sub>2</sub> TANK REFILLS:

Refill or replace CO<sub>2</sub> tanks at any CO<sub>2</sub> Compressed Gas Center in your area. In some non-metropolitan areas, the best option may be an independent welding supply shop.

Do not use any CO<sub>2</sub> tank with a dip tube. Using a CO<sub>2</sub> tank with a dip tube will cause damage to the regulator.

Praxair Technology Inc. ([www.praxair.com](http://www.praxair.com)) is a National Compressed Gas Center and an example of a company that can refill your BioSpray® CO<sub>2</sub> tanks.

Most CO<sub>2</sub> Compressed Gas Centers, including most independent welding supply shops located in virtually every community and area, will create an account for your company and provide pickup and delivery to refill or replace your tanks at little or no additional charge, or you can take your tanks to these centers to have them refilled or replaced.

### **Note:**

Regular, industrial grade CO<sub>2</sub> is required for this application. Food grade CO<sub>2</sub> is used for human consumption, and not required for sanitizing/disinfecting food grade surfaces.

### **TIP:**

Depending on your usage, volume and needs, it is recommended to have an extra set of CO<sub>2</sub> tanks on hand, so that you can continue using your BioSpray® System while your empty CO<sub>2</sub> cylinders are being refilled.

## STORAGE AND MAINTENANCE

As a preventative maintenance measure, it is requested that the hoses be checked for wear and all sealing areas are checked for leaks after each use.



To prevent the coil hose from dragging, guide it across the front of the unit and rest the gun on the mounting hook.



Bio-Spray-5-BP ONLY: To prevent the shoulder straps from dragging, secure the buckle across the front of the unit.



## TECHNICAL INFORMATION

Operating Pressure	24-26 PSI (1.6-1.8 BAR)
Working Tank Pressure	0-1000 PSI (0-69 BAR)
Operating Environmental Temperature	68°F +/- 20°F (20°C +/- 11°C)
Air Flow	5.4 CFM (.003 m <sup>3</sup> /s)
Siphon Rate	160 mL/min (5.4 fl oz/min)
Tank Safety Relief	3000 PSI (207 BAR)
Regulator Safety Relief	150 PSI (10.3 BAR)

## TROUBLESHOOTING

Problem	Cause	Solution
Spray gun is sputtering	Debris in nozzle Packing nut is too loose, allowing air to leak.	Remove the nozzle and spray the compressed air for 15 seconds. Tighten the packing nut, located near the trigger of the spray gun.
	Siphon for spray gun is not able to breathe.	Make sure all of the foil is removed from the Bio-Spray-D2 container.

## COMMON REPLACEMENT PARTS



SANI-REGULATOR-ASSM-5  
(Regulator Assembly)



SANI-TANK-5 (5lb CO<sub>2</sub> Tank)



SANI-034-ASSM  
(Spray Gun Assembly)



SANI-087 (Buckle Set)



SANI-079 (Foam Set)



SANI-045-ASSM  
(Coil Hose Assembly,  
10', 3m)



SANI-BP-ASSM  
(Backpack Strap Assembly)





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**P/N: MNL-BIOSPRAY-5**

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Effective date July 27, 2021

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