



## Instructions For Use

### CAUTION

A caution statement in this manual identifies a condition or practice which, if not corrected or discontinued immediately, could lead to serious injury or death.

1. KEEP OUT OF REACH OF CHILDREN.
2. Carefully read all instructions, warnings, cautions and first aid statements prior to use.
3. Do not enter the area while disinfectant is being dispensed. Stay out of the room after treatment until the settling time has expired. Keep doors and windows closed.
4. Use only as directed.
5. Allow the full post-treatment settling time before re-occupying the room. Re-entry before the settling time has expired could result in sensory irritation and should only be done while using proper personal protection equipment (PPE) including safety goggles, gloves, and a respirator.
6. Avoid inhalation of vapors or skin and eye contact with Breezy BioCare RTU disinfectant.
7. Use PPE including safety glasses and gloves when pouring disinfectant fluid into the device. Avoid splashing or overfilling which could harm the user and/or the device.



8. Build With Robots is not responsible for any injury or damage caused by using Breezy Blue or Breezy Biocare RTU outside of the specific parameters detailed in this manual.

## **General Information**

Breezy BioCare RTU has been registered by SpectraShield in accordance with Federal Regulations for the specific uses described in this document. Uses other than as specified and described are not permitted and may not be effective in the disinfection of exposed surfaces.

## **Breezy BioCare RTU Disinfectant Application Process**

These instructions ONLY apply to how Breezy BioCare RTU should be used in Breezy Blue. Effective application of Breezy BioCare RTU requires adequate product concentration and exposure time. Breezy Blue is designed to achieve the correct concentration and contact time of Breezy BioCare RTU within a defined area if used as directed.

Read the Breezy Blue User's Manual prior to the disinfectant application process to learn how to operate the device properly and fully understand status modes.

Breezy Blue utilizes an atomizing cold fogger to disperse disinfectant in the 20 um to 100 um droplet diameter range, smaller particles remain suspended in the air and larger particles settle to cover surfaces. Refer to the Breezy Biocare RTU SDS prior to fogging. Breezy Blue will fog the Breezy BioCare RTU disinfectant continuously and stop automatically at the programmed time set by the user.

Dehumidification is recommended if the room to be disinfected has a relative humidity greater than 60%. In rooms with high humidity levels, fogging with Breezy BioCare RTU can exhibit undesirable increased condensation on surfaces.

## **User Safety Requirements**

Refer to the product label and SDS for user safety requirements and PPE.

## **Personnel**

1. Prior to use, personnel must be adequately trained on the hazards, required PPE, and proper protocol for using Breezy BioCare RTU and Breezy Blue.
2. Confirm that all personnel are aware of and know how to proceed in case of an emergency.



## Room Preparation

CAUTION – Before proceeding, ensure that personnel who operate Breezy Blue have received appropriate training, including:

1. Review Breezy Blue User Manual
2. Review Breezy BioCare RTU labeling and Safety Data Sheet

All surfaces within the treatment area must be dry prior to fogging.

IMPORTANT – Breezy Blue does not replace the requirement for manual room cleaning. You must follow the facility's cleaning procedures before using Breezy Blue.

## Room Set Up

1. It is recommended that all ventilation systems, including HVAC, be turned off for the fogging and settling operations. Failure to do so will require longer fogging times to achieve the same disinfection efficacy.
2. The area to be treated should meet the following recommended parameters for best results: Temperature: 5°C - 40°C (41°F - 104°F), Relative Humidity: <60%
3. Vacate all personnel and animals from the area prior to fogging. Cover or remove all plants, beverages, and food.
4. Close all exterior windows and door(s) of area being treated.
5. Personnel must not re-enter the treated area until exposure levels of VH<sub>2</sub>O<sub>2</sub> are at or below one ppm.
6. It is recommended to position the device where personnel can easily determine the status of operation of the device. If that is not possible, the wireless controller can be used to determine the status of operation of the device.

## Treatment Procedure Protocol

1. Position the fogger(s) in a corner or along the wall of the room at least 5 cm (2 in) away from the wall and 1.2 m (4 ft) or greater from the ceiling.
2. Calculate the volume of the room by measuring the length, width, and height of the room (if box shaped) and multiplying the dimensions (LxWxH). The volume of the room will be used to determine the approximate fogging time for the room.



- Below are general guidelines for fogging times. Air flow, room shape, density of surfaces in room, etc, will affect required fogging time. The values below are based on situations where there is no airflow in the room, and the room is a regular box shape.

<b>Room Size (volume)</b>			
<b>Room Type</b>	<b>Room Volume (ft<sup>3</sup>)</b>	<b>Minimum fog time (seconds)</b>	<b>Approximate amount of disinfectant used (gallons)</b>
Ambulance	1,400	25	0.025
Classroom	5,000	50	0.050
Large Room	9,000	90	0.090
Auditorium	30,000	300	0.300

The following formula may also be used as guidance for mid to large size areas (>3000 ft<sup>3</sup>) with L, W, and H representing the dimensions of the area in feet. T is the fog time in seconds.

$$T = \frac{L * W * H}{100}$$

Rooms smaller than 3000 ft<sup>3</sup> will require a longer relative fog time. Refer to line 1 in the table above.

- If the room requires a fogging time of greater than 120 seconds, multiple foggers should be considered.
- Plug Breezy Blue into a standard, grounded electrical wall outlet. When the power connection has been made, the status lights will turn either yellow (disabled) or blue (idle) depending upon the state of the push button switch on the top of Breezy Blue.
- Check the fluid level indicator on the controller or visually inspect the fill port. Refer to the Getting Started and Fill Port Instructions in the Breezy Blue manual.
- Check and update the fogging time using the Breezy Blue controller based on the guidance provided in the table above. Do not set the fog time for longer than the suggested time unless the HVAC system and air filters can't be disabled, in which case longer fogging times will be required. Excessive fogging may produce condensation and will require a longer time before room re-entry.
- Follow instructions in the Breezy Blue user manual to initiate a fogging sequence using push button mode, wireless controller mode, or scheduled fogging.



9. When Breezy Blue has finished fogging the room, the room will be filled with atomized Breezy BioCare RTU disinfectant. The status light around the waist will blink yellow, DO NOT ENTER ROOM at this time.
10. The treated room must remain unoccupied and closed until the fog settling time has passed, and the waistband returns to a blue color. Refer to *Criteria for Safe room re-entry* below for additional guidance.
11. To encourage ventilation and air circulation after treatment, it is recommended that all doors be opened, and the HVAC system and air filters be restarted after the 10 minute settling time.

### **Criteria for Successful Disinfection**

1. Vaporized Hydrogen Peroxide (VH<sub>2</sub>O<sub>2</sub>) detectors can be used to verify disinfection in a treated area. Contact BWR support for more information.

### **Criteria for Safe Room Re-Entry**

1. The treated room should not be entered during the 10 minute settling time unless there is an emergency, and only then if proper PPE including a respirator is used.
2. After the settling time has passed, the room should be opened for air exchange and the HVAC system and ventilation fans should be turned back on.
2. The VH<sub>2</sub>O<sub>2</sub> levels should be allowed to drop below 1ppm level before re-entering the area.
3. For best practices, the PM<sub>2.5</sub> particulate levels should be allowed to return to levels of 12.0 ug/m<sup>3</sup> or less before re-entering the area.

### **Emergency Vehicle Decontamination Protocol**

1. If the vehicle has been in the cold for an extended period, pre-warm the interior of the vehicle. Keep heat on prior to fogging so vehicle interior is at or above 5C (41F). In humid conditions, use of the vehicle's air conditioning system may be required to adjust the humidity level so it is below 60% relative humidity prior to fogging.
2. The vehicle being treated should be parked with the engine and accessories turned off in an open bay near an accessible electrical outlet. Wearing appropriate PPE, pre-clean all surfaces that exceed a 5% soil load with an appropriate cleaner. All surfaces should be dry prior to treatment.



3. Notify others working in the area that disinfection is occurring.
4. Inside the patient compartment, remove, close or bag in plastic, any porous materials. This includes cardiac monitors and “jump bags”. Remove and bag any sheets or blankets on the gurney pad and place the gurney pad on its side to expose all areas of the gurney. Fully open any drawers or cabinets that require disinfection and close those that don't require treatment. Close all doors on vehicles except the door that Breezy Blue will fog through. If there is a passthrough between the patient compartment and the cab, ensure it is open to allow fog to move through this space.
5. Position Breezy Blue on a cart on a stable surface facing and close to the open door of the vehicle to be fogged.
6. Plug Breezy Blue's power chord into a grounded outlet.
7. Set the Breezy Blue fogging time to 15 seconds (or user defined fog time) using the controller if needed.
8. Check the fluid level indicator on the controller or visually inspect the fill port. Refer to the Getting Started and Fill Port Instructions in the Breezy Blue manual.
9. Depress the push button on Breezy Blue or press the start button on the controller. The status lights will begin blinking red for a 20 second default countdown. The countdown time can be changed using the controller. When the status lights turn solid red, Breezy BioCare RTU will be dispensed into the vehicle.
10. When Breezy Blue has finished dispensing, close the open door. The vehicle has been filled with atomized Breezy BioCare RTU disinfectant. DO NOT ENTER THE VEHICLE at this time.
11. The treated vehicle must remain unoccupied and closed for a minimum of 10 minutes to allow the fog to settle.
12. Once the 10 minute settling time has passed, open all windows and doors to allow the vehicle to air out before entering and using the vehicle.

### **Routine System Maintenance and Troubleshooting**

Refer to the Breezy Blue User Manual for instructions regarding routine system maintenance and troubleshooting guidance.



## **Storage**

Breezy BioCare RTU should be stored at room temperature in a safe, dark, dry location in an upright orientation.

If Breezy Biocare RTU has been opened, ensure lid is replaced and tight before storing.

Breezy Biocare RTU should be used within one year of purchase.

## **Disposal**

Refer to Breezy Biocare RTU SDS

