

# Rio Rancho Fire & Rescue Disinfects Emergency Response Vehicles

## At a Glance:

- All first responders must disinfect their vehicles. Many fire departments, such as Rio Rancho Fire and Rescue, have found that handheld sprayers were an inconsistent, time-consuming, and costly method of disinfecting.
- RRFR is using Breezy Blue Response foggers in their vehicles, living quarters, training rooms, and gyms to ensure complete coverage without exposing workers to disinfectant.
- Field efficacy testing proved that 99.9% of pathogens were eliminated after 15 seconds of fogging in ambulances.

## Introduction

Rio Rancho Fire and Rescue (RRFR) is the sole provider of Emergency Medical Services (EMS) within the City of Rio Rancho. The department is dedicated to serving the citizens, visitors, and businesses of the community by providing response to incidents involving fires, emergency medical or trauma, and technical rescue.<sup>1</sup>

Thorough cleaning of EMS equipment can be challenging, making the providers and equipment potential vectors for disease transmission. Additionally, it is difficult to identify outbreaks of new viruses and resistant pathogens posing new challenges in protecting providers and patients alike.<sup>2</sup>

## Challenges

RRFR was looking for an easy, repeatable solution that anyone can quickly implement. A handheld sprayer was being used as an upgrade to cleaning using spray bottles, cloths, and alcohol-based sanitizer. The handheld sprayer is not a consistent disinfectant application tool, needs frequent disinfectant refills, and requires additional personal protective equipment. Manual disinfection is time-consuming and requires several reoccurring material costs.

It was also important for RRFR to have data that supports how effective their disinfection method is to assure first responders that they are protected from the additional challenges created by viral pathogens.



## Solution

[Build With Robots Inc.](#) (BWR) and RRFR partnered together to implement a solution to protect first responders. Breezy Blue Response by BWR provides a time-controlled disinfecting solution with the capability to disinfect RRFR's emergency service vehicles in between calls, destroying harmful pathogens within 2-10 minutes of soil load contact time.

Efficacy testing performed by BWR showed the fogging technology evenly distributes disinfectant throughout the ambulance, on particulates suspended in the air, stretchers, door handles, in the driver's cab area, and hard to reach areas like inside patient care compartments (additional testing locations can be seen on the following page). The disinfectant utilized is [EPA List N](#) and [List Q](#) certified and [Green Clean Institute](#) certified. It is effective against COVID-19, Influenza (H1N1), Listeria, E. Coli, Norovirus, Rhinovirus, Staphylococcus aureus, Salmonella, Pseudomonas, Acinetobacter Baumannii, and Trichophyton Mentagrophytes.

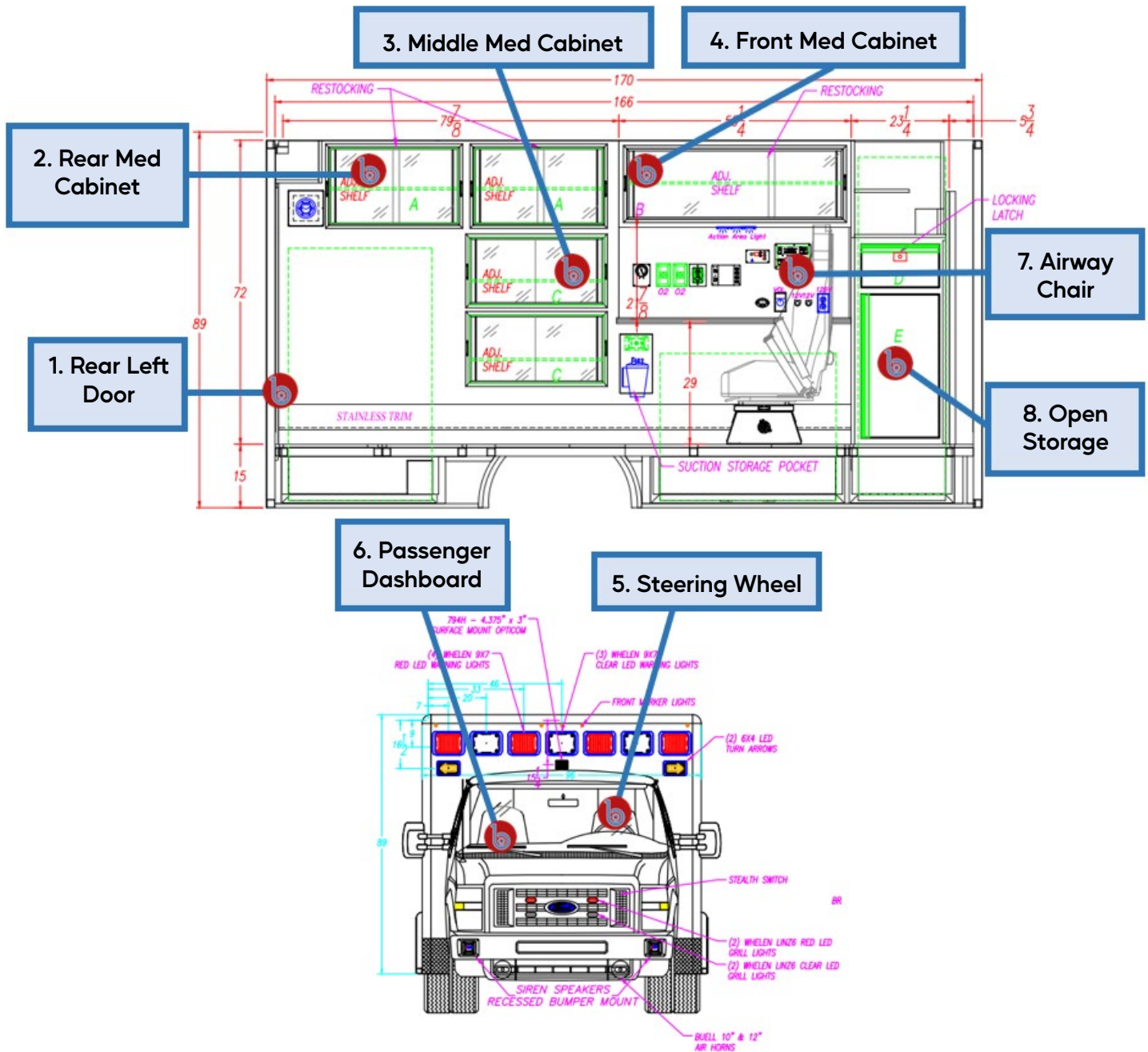
These claims were proven with a soil load, meaning that the disinfectant is categorized as a one-step that does not require a pre-clean prior to disinfecting hard surfaces.<sup>3</sup>

Based on efficacy field testing results, it is recommended that to ensure 99.9% efficacy throughout the ambulance, the ambulance should be fogged from the right rear, with the left rear door closed, for 15 seconds, then immediately shut the right rear door. Complete efficacy results can be accessed by contacting BWR.

Breezy Blue is a supplemental device to be used in conjunction with Center for Disease Control and Prevention (CDC) guidelines and face covering guidelines. BWR strives to provide safe and consistent disinfectant technology that is backed by laboratory efficacy testing as well as a quick and reliable efficacy field test.

"Once the crews watched how quick and effective it is to disinfect a space, they were thrilled they didn't have to hand-fog and wipe down surfaces. A testament to their belief in the product is the fact that they don't just use it in the ambulances - they use it everywhere in the station."

Captain David Hoeksema, Rio Rancho Fire Rescue



Sources

- <https://rrnm.gov/673/Fire-and-Rescue>
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7100409/>
- <https://spectrakill.com/the-us-environmental-protection-agency-approves-an-expanded-label-for-spectrakill-rtu/>

