

# Disinfecting Robots Take Flight at George Bush Intercontinental Airport

## At a Glance:

- George Bush Intercontinental Airport (IAH) is one of the top 20 busiest airports in the US, hosting over 45 million passengers in 2019. When serving travelers from all over the world, minimizing disease spread is a top priority and a laborious task.
- In 2021, four disinfecting robots joined IAH's custodial team to reduce the spread of illnesses between passengers and employees and to improve the efficiency of airport operations.
- Daily disinfecting with Breezy One robots is saving custodians approximately 4 hours of labor per day and keeping everyone safe with over 99.9% pathogen elimination.

## Introduction

[The Houston Airports](#) form one of North America's largest public airport systems. With a vision to establish the Houston Airport System as a five-star global gateway and provide an optimal customer experience, these high traffic airports have found innovative ways to remain highly accredited. By deploying Breezy One™ by [Build With Robots, Inc.](#) (BWR), [IAH](#) can provide a modern solution to keep passengers and employees healthy and safe.

## Challenges

[ACI-NA](#) ranks IAH as the 16th busiest airport in the nation (2018), and it is one of the largest airports in the world. With over 45 million passengers going through IAH in 2019, operations have to be efficient. The pandemic



sparked a need to reduce tedious and labor-intensive disinfecting on custodial staff and eliminate human error during disinfection of the airport.

Airports are starting to distinguish themselves as the top airport for customer safety. The Houston Airports look to Skytrax, who conduct an annual World Airport Audit that determines the benchmark for level of excellence with a 1-5 star rating.

## Solution

For a facility that operates 24/7, IAH needed a solution that doesn't sleep. Breezy One provides a simple, custom disinfecting solution. Breezy One is an autonomous mobile robot that utilizes sensors and algorithms to map the facility and can automatically avoid mapped or unmapped obstacles (such as objects or people). In combination with cold foggers and broad-spectrum disinfectant, Breezy One can disinfect large and hard to reach areas consistently with less chemical usage.

Breezy One, a GBAC STAR-Registered product, easily integrate into a custodial staff's existing routine, disinfects before janitors clean and makes their job safer. Breezy provides nightly disinfection to terminals and offices, freeing up maintenance and cleaning staff to do additional work to sanitize and ready IAH. BWR provides rigorous testing and validation with greater than 99.9% efficacy.

Having resources and supplies to be successful, custodial staff can now complete disinfecting in less than half the time with Breezy One covering on average 150,000 square feet per hour. Facility managers can be confident that they are providing the best solution for eliminating infectious pathogens.

*"With the onset of the pandemic, we needed to explore new and innovative solutions so that when people come through the airports, whether for work or travel, they feel safe and secure. Breezy One has been a great tool in helping us achieve this."*

**Sam Rea, Terminal Manager at IAH**

