



GS-AQ-UVGI-SA Series

Sentinel Mobile Ultraviolet Germicidal Irradiation Filter Units



Overview

The GS-AQ-UVGI-SA Series filter units are suited where a permanent installation is impractical and can be moved to any area requiring Germicidal Irradiation.

The volume of the space guides the air changes per hour, while the units are designed to be operated continuously to filter airborne pathogens.

Multiple units can be added to spaces and provide additional filtration.

Applications

- ☐ Germicidal Irradiation
- ☐ Air Filtration
- ☐ Non permanent installations

Features & Benefits

- ☐ Recirculates Back Into Space
- ☐ Plug and Play, Portable
- ☐ 120/1 6' Cord and Plug Set, 374 Watts
- ☐ Clean Air Selectable Delivery Rates:
 - ☐ SA Models: 800 - 1000 - 1200 CFMs
 - ☐ SA-W Models: 300 - 500 - 700 CFMs
- ☐ Controlled by ECY-PTU-208
- ☐ Interfaced via UNITOUCH™

Model Selection

GS-AQ-UVGI-SA-80020	Halton Sentinel Mobile Ultraviolet Germicidal Irradiation filter unit. Equipped with 2 UVGI tubes rated at 13,000 hours and 254nm, disposable MERV 13 filters, & heavy-duty locking casters. Selectable Rates: 800, 1000 & 1200 CFM. 120V. Colour: Black
GS-AQ-UVGI-SA-9010	Halton Sentinel Mobile Ultraviolet Germicidal Irradiation filter unit. Equipped with 2 UVGI tubes rated at 13,000 hours and 254nm, disposable MERV 13 filters, & heavy-duty locking casters. Selectable Rates: 800, 1000 & 1200 CFM. 120V. Colour: White
GS-AQ-UVGI-SA-W-80020	Halton Sentinel Wall Mount Ultraviolet Germicidal Irradiation filter unit. Equipped with 2 UVGI tubes rated at 13,000 hours and 254nm, disposable MERV 13 filters. Selectable Rates: 300, 500 & 700 CFM. 120V. Colour: Black

GS-AQ-UVGI-SA-W-9010	Halton Sentinel Wall Mount Ultraviolet Germicidal Irradiation filter unit. Equipped with 2 UVGI tubes rated at 13,000 hours and 254nm, disposable MERV 13 filters. Selectable Rates: 300, 500 & 700 CFM. 120V. Colour: White
GS-AQ-UVGI-SA-W-80020WB	Halton Sentinel Wall Mount Ultraviolet Germicidal Irradiation filter unit. Equipped with 2 UVGI tubes rated at 13,000 hours and 254nm, disposable MERV 13 filters. Selectable Rates: 300, 500 & 700 CFM. 120V. Colour: Black. With wheel base included.
GS-AQ-UVGI-SA-W-9010WB	Halton Sentinel Wall Mount Ultraviolet Germicidal Irradiation filter unit. Equipped with 2 UVGI tubes rated at 13,000 hours and 254nm, disposable MERV 13 filters. Selectable Rates: 300, 500 & 700 CFM. 120V. Colour: White. With wheel base included.

Product Specifications

Controls Interface _____ Touch Screen HMI
 Mobile Device Capabilities _____ On/Off Capabilities
 Power Requirements _____ 120/1 outlet, 15A circuit

Clean Air Delivery Rate

SA Models _____ 800 CFM (377.6 l/s) 1000 CFM (471.9 l/s), 1200 CFM (566.3 l/s)
 SA-W Models _____ 300 CFM (141.6 l/s), 500 CFM (235.9 l/s), 700 CFM (330.4 l/s)

Air Filters

UV Resistance _____ MERV 13
 White Standard Filters _____ 9" Radiance Factor

UVGI Tubes

UVGI Tubes _____ 2
 Rating _____ 13000 hours, 254 nm
 UV-C bulbs _____ Prohibited if outside 254 nm range or ozone-producing

Physical, Mechanical

Construction (Exterior) _____ Steel, 29% Perforated Expanded Metal
 Construction (Interior) _____ Aluminized Steel, corrosion resistant
 Finish _____ Baked Powder Coat Finish
 Mounting _____ Floor Mount with Leveling Feet (Wheel Base Optional)
 Colour _____ Black or White
 Weight _____ 64kg (140 lbs)

Standards

Manufacturing Standards _____ UL

Case Example

A typical classroom of 25 students will have ventilation rate^{1,2} of 250 cfm. (10 cfm of outside air per student). Adding 1000 cfm of clean disinfected air will reduce probability of airborne infection by 4.4 times³. Other infection probability rates can be calculated by application and occupancy.

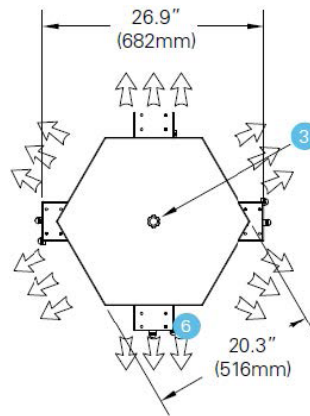
1. Based on measured UV dosage and reported deactivation rate for Corona-type virus $k = 0.0038 \text{ cm}^2/\mu\text{J}$

2. Per ANSI/ASHRAE Standard 62.1-2019

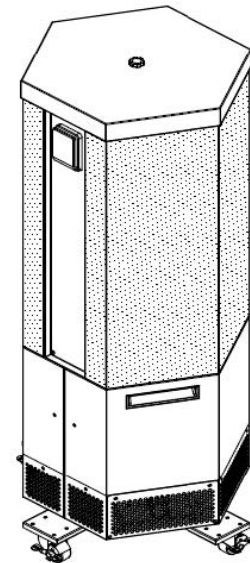
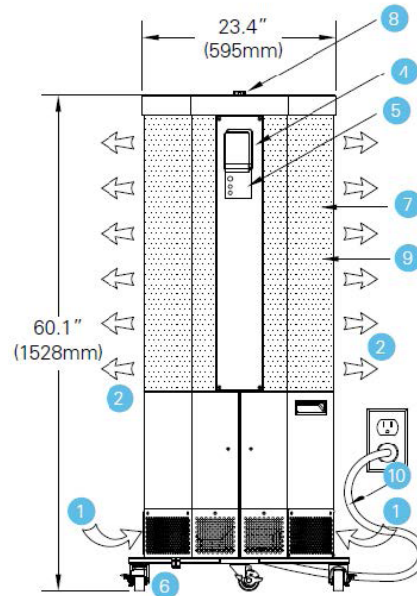
3. Based on Wells-Riley risk model associated with airborne transmission of respiratory diseases

Dimensions

SA Models

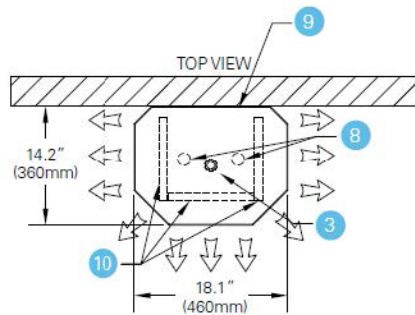
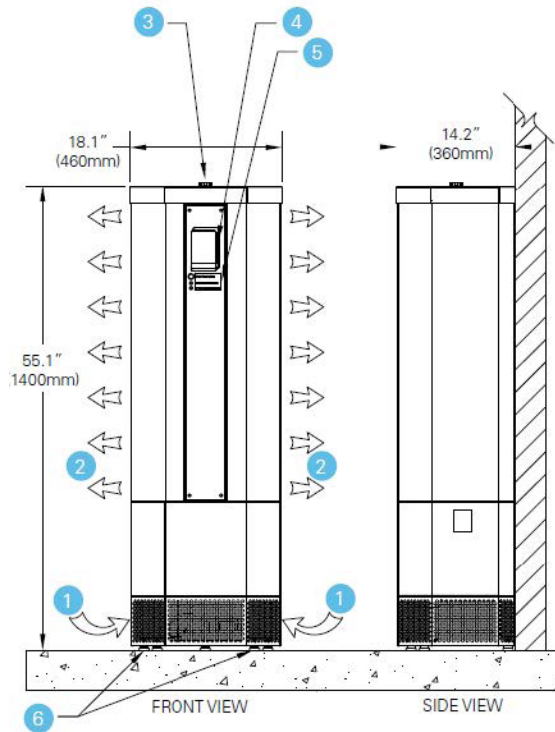


- 1 Air inlet - Perforated Panels
- 2 Air Outlet - Perforated Panels
- 3 Hand Knob - Access to Filters and Bulbs
- 4 Touch Screen
- 5 Function Indicators
 - System Operational
 - Filter Change Required
 - UV Bulb Change Required
- 6 Heavy-Duty Locking Casters
- 7 UV Bulbs Inside
- 8 Top Access for Electrical and Fan at Rear
- 9 Filters Inside
 - Standard White - 9" Radiance Factor
- 10 Plug and Cord

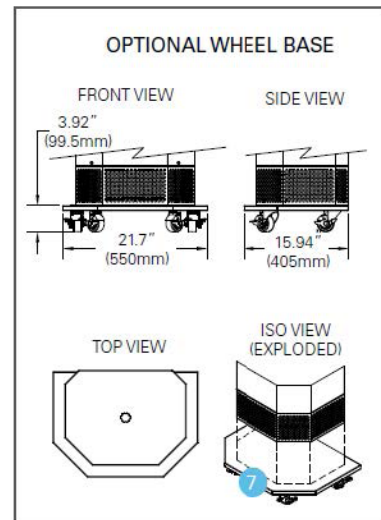


Dimensions

SA-W (Wall) Models



- 1 Air inlet - Perforated Panels
- 2 Air Outlet - Perforated Panels
- 3 Hand Knob - Access to Filters and Bulbs
- 4 Touch Screen
- 5 Function Indicators
 - System Operational
 - Filter Change Required
 - UV Bulb Change Required
- 6 Adjustable Feet
- 7 Optional Wheel Base
- 8 UV Bulbs
- 9 Access for Electrical and Fan at Rear
- 10 Filters
 - Standard White - 9" Radiance Factor



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