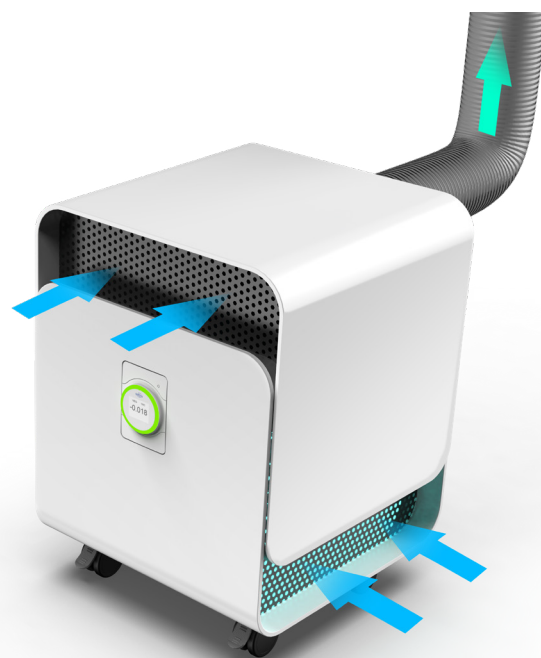# Setra AIIR Watch
Negative Pressure Air Quality Module

In todays world, negative pressure isolation spaces can help more than just hospitals; they can help schools, dentists, nursing homes, and many other businesses resume operations in a safer setting.

The Setra AIIR Watch Negative Pressure Air Quality Module is quiet and compact and can be easily brought into and installed in isolation spaces to prevent contaminated air from escaping into areas outside the isolation space.

Monitor Negative Pressure

Setra's industry leading room pressure monitors provide constant monitoring and simple red/ green light status so you always know when your space is safe.

Sterilize the Air

The combination of a HEPA filter and UVC light sterilizes the air on first pass to create the safest possible exhaust.

Create Negative Pressure

A key feature of hospital isolation rooms, negative pressure keeps contaminated air from escaping.

Remove the Air

Air is exhausted out of the room instead of recirculated to minimize exposure aerosols and airborne particles.

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Reduce Airborne Infection Risk

Studies have shown that the COVID19 virus can exist in aerosols for up to 16 hours, underlining the importance of air treatment and removal where COVID19 aerosols could be present. If someone were to show symptoms, it is essential to be able to easily and effectively isolate them to reduce potentially exposing other residents to contaminated aerosols.

When dealing with airborne infections, the CDC recommends isolation spaces be kept at a negative pressure relative to surrounding areas, that the air from isolation spaces is exhausted directly outside, and that the negative pressure inside the isolation space should be continuously monitored. Control over the air inside the isolation space significantly reduces the risk of spreading contaminated aerosols and protects everyone outside of the isolation space.

Create Negative Pressure for Isolation

An isolation space is much more than just a closed off room; with the space at a negative pressure relative to the hallway or area outside, the air and any aerosols or suspended particles will not be able to escape the room. The key is to not allow this contaminated air return to the building's air supply system.
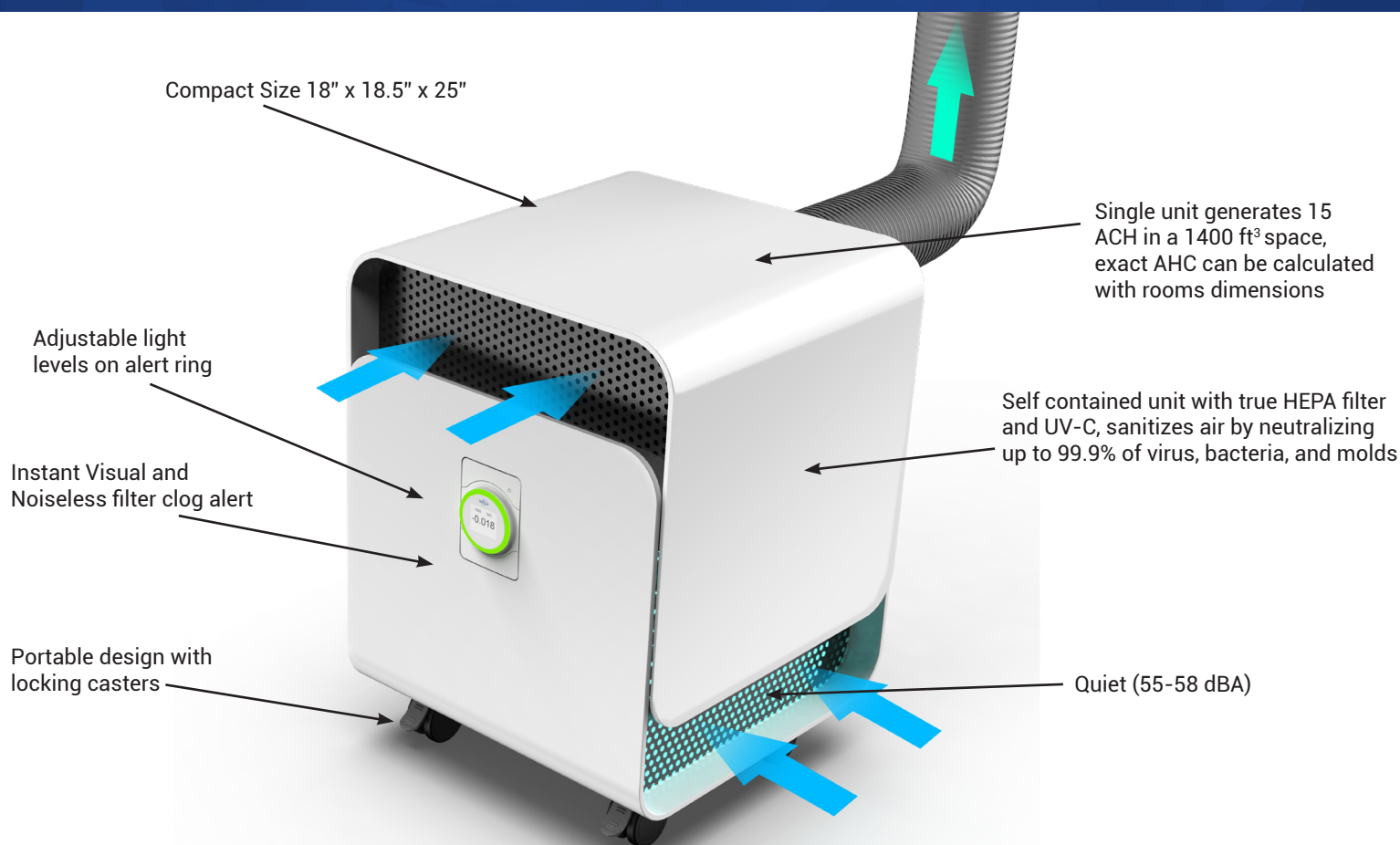
Traditional methods for creating negative pressure inside a space involve complex and expensive construction projects to make HVAC system changes. Instead, Setra created a portable unit which allows for much faster and more cost-effective conversion of spaces into negative pressure isolation areas with the Setra AIIR Watch.

Why Setra

Setra is renowned in the world of sensing technology and has been outfitting hospital Airborne Infection Isolation Rooms (AIIR's) and operating suites with environmental sensing and monitoring equipment for years. During the COVID19 pandemic, hospitals and temporary emergency facilities around the world turned to Setra to provide much needed pressure sensing and monitoring equipment for isolation spaces. Now that the need for negative pressure isolation spaces has expanded outside of hospitals, Setra is prepared to help dental offices, schools, and other facilities resume operations in a safer setting.

Know that your COVID19 Isolation Spaces are Safe & Effective

Compact Size 18" x 18.5" x 25"

Single unit generates 15 ACH in a 1400 ft^3 space, exact AHC can be calculated with rooms dimensions

Adjustable light levels on alert ring

Self contained unit with true HEPA filter and UV-C, sanitizes air by neutralizing up to 99.9% of virus, bacteria, and molds

Instant Visual and Noiseless filter clog alert

-0.018

Portable design with locking casters

Quiet (55-58 dBA)

Fast and Easy Installation

The Setra AIIR Watch is easy to set up and use a single module in isolation spaces up to 200 sq ft, with the option to use multiple modules for larger spaces. Place the unit inside the room and run the exit pipe to the window for exhausting the air out. All required hardware is included for exhausting out a standard window. The unit plugs into a standard power outlet and includes filter status indication on the unit itself.

Install the Setra Lite Room Pressure Monitor at the entrance to the space using the Quick Mount Kit for easy, one screw installation. The Setra Lite Room Pressure Monitor will indicate the room status via the sleek and simple red/green light ring.

Specifications

General

Room monitoring	Setra LITE Room Pressure Monitor provided
Sterilization	99.9% Effective on viruses, bacteria and fungus to sterilize exhaust air.
Sterilization method	HEPA filter removes partciles as small as 0.3 microns and UVC light neutralizes viruses, bacteria, and fungus
Exhaust	6" ID flexible exhaust hose
Exhaust connections[1]	Adjustable window panel vent (24-36" wide) and standard fixed wall vent provided for exhausting out a window or into standard ceiling tile

Physical Description-Module

Dimensions	18"W x 18-1/2" D x 25" H (including wheels)
Power requirements	120 VAC
Power cord (length)	6 ft grounded power cord
Housing	18 Ga Steel
Finishing	Matte white with light texture
Weight	35 lbs

Physical Description-Room Monitor

Dimensions	3.42" W x 4.88"H x 1.83"D (87 mm x 124 mm x 46.5 mm)
Mounting	Quick Mount Bracket provided for mounting on wall, Single-gang US electrical box for installing into wall
Weight	8 oz (0.5 lbs)
Display	Color: RGB, 65K Resolution: 128x160, backlight: LED
Alarm indication	Red illuminated LED light ring , 11mm standoff from faceplate, viewable at 90° angle from side

Specifications subject to change without notice.

[1] Accessories for other window or ceiling exhaust type connections recommended in Operating Instructions

Features

Portability	2 locking casters
Filter alert	On unit filter alert light ring provides green/yellow indication of filter health, expected replacement 1 year
Safety switch	Unit automatically shuts off if top cover screws are loosened or removed
UV bulb functionality alert	Unit automatically shuts off if one or both UV bulbs are not present or not functioning
	On unit filter alert light ring turns red after 8000 hours to indicate bulb end life
Room monitoring	Setra LITE Room Pressure Monitor provided
Room Monitor alarm thresholds	Customer selects numeric alarm threshold for the room in "WC or Pa
Room Monitor door delay	Select door alarm delay for 0-999 seconds

Performance

CFM	350 CFM (avg)
Space size	200 sq ft (avg)
Sound level	58 dBA
Exhaust hose length	6 ft length provided, can purchase additional exhaust hose up to 18 ft length without impacting performance

Environmental data

Operating temp	32°F - 120°F
Storage temp	32°F - 120°F
Operating humidity	NA

Ordering information

Contact Setra at orders@setra.com for more information on how to order.