

Performance Intelligent Clean Air System

PRODUCT DESCRIPTION

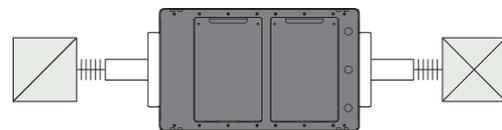
smartIAQ® is an Intelligent Clean Air System that delivers constant air cleaning, addressing TVOC's, Formaldehyde, PM_{1.0}, PM_{2.5}, PM_{4.0}, PM₁₀, as well as NO_x. This ensures indoor air quality meets current standards, while maintaining a quiet standard operation. Additionally, with filters third-party tested for high first pass removal efficiencies*, the smartIAQ1-PERF can provide an equivalent clean airflow of up to 400CFM for your Infection Risk Mitigation Plan in accordance with ASHRAE 241-2023.

Operating independently of a HVAC system, smartIAQ SIAQ1-PERF is dedicated to continuously delivering cleaned air to the breathing zone. smartIAQ is powered by digital control, informed by a panel of solid state, calibrated, air quality sensors that manage the cleaned airflow, utilizing an optimal airflow in standard cleaning mode while sensing IAQ contaminants and ramping to maximum speed when needed.

Designed primarily to be installed **ducted above a drop ceiling** or **in open plenum returns**, the system is also elegantly designed to look at home in an open ceiling application

STANDARD FEATURES

- Integral EC Blower - varies from 250CFM in Standard Clean mode through to a Peak Clean flow of 500CFM.
- Quiet operation - Nominal 35dB(A)
- 12" Dia inlet / outlet
- External filter change indicator with reset switch
- Integral hanger brackets for permanent installation using all thread rods
- NPBI® Soft Ionization delivered in all operational modes
- Supports maximum external static pressure of 0.8" W.C.
- I/O :
 - Inputs: INHIBIT OPERATION
 - Outputs: POWERED ON (READY)
 - ACTIVELY CLEANING
 - FAULT
 - CHANGE FILTER



Standard Deployment

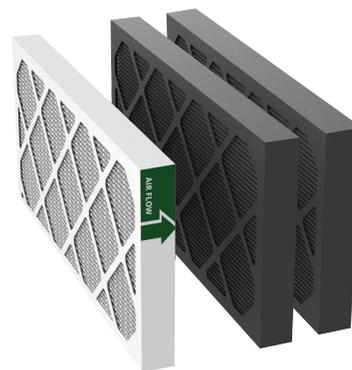
FILTRATION DETAILS

The SIAQ1-PERF utilizes high efficiency Particulate and Molecular filters to address defined design compounds.

Base Level Kit (SIAQ-P14MMK-12242) is included, which consists of:

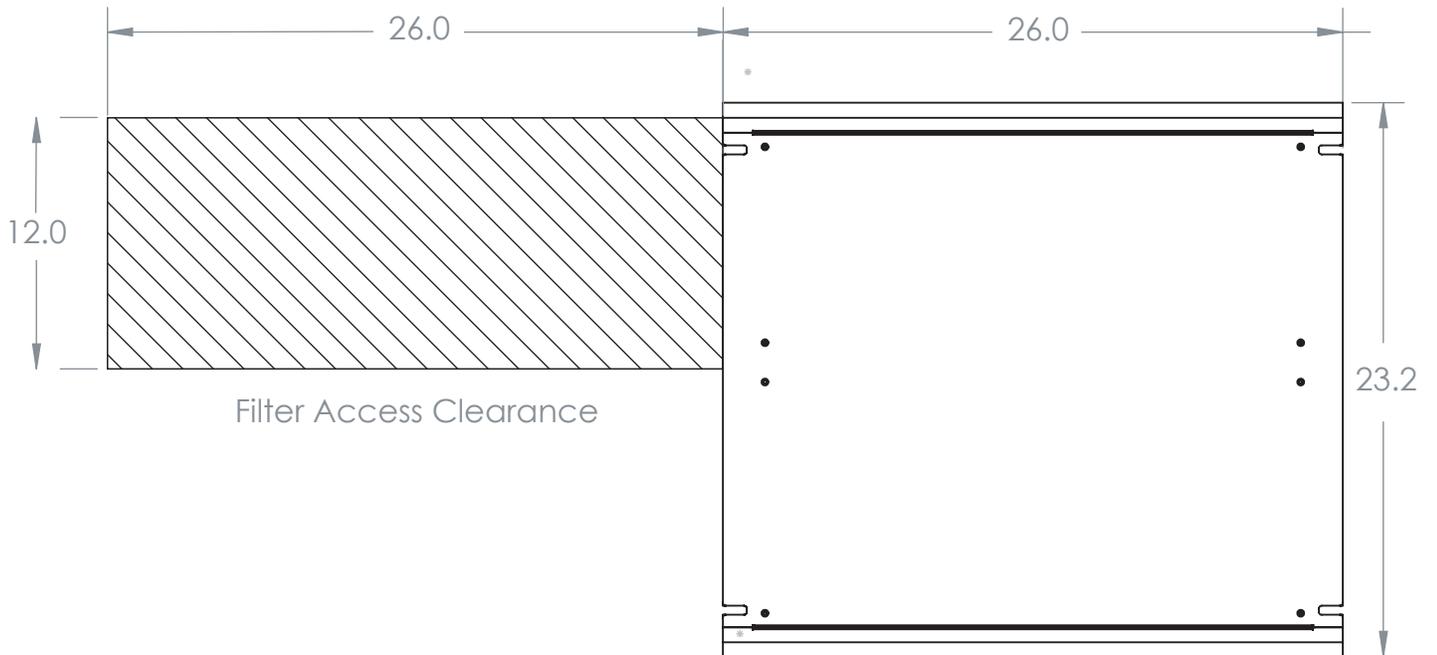
- Qty 1 (one) 2" MERV 14 Particulate Filter
- Qty 2 (two) 2" Molecular Filters

Unit achieves 6 months of filter life**



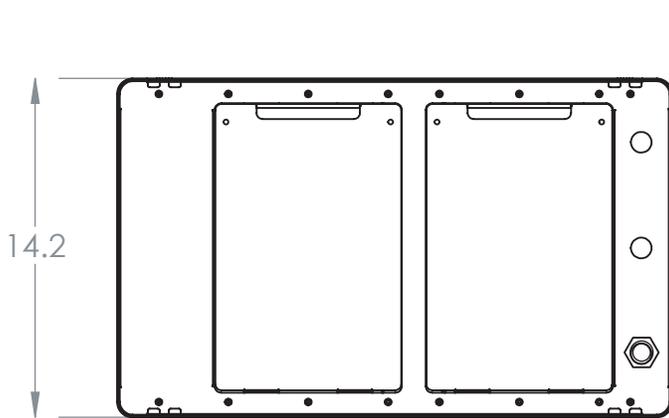
* Particle filter tested to ASHRAE 52.2, Molecular filter tested to ASHRAE 145.2

** Based on ASHRAE published generation rates for design compounds

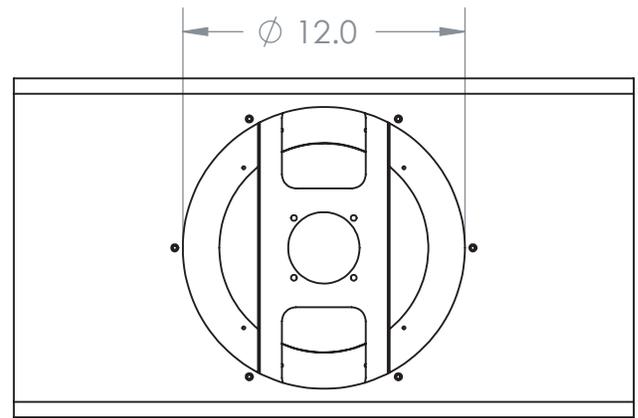


Filter Access Clearance

Plan View



Service Side Elevation



Supply End Elevation

SIAQ1-PERF : SPECIFICATIONS

Standard Input Voltage/Frequency	120 VAC, 50 / 60 Hz	Weight (Standard Unit)	70bs
Optional Input Voltage/Frequency	208/230/277/347 VAC, 50 / 60 Hz	Weight (with optional transformer)	78lbs
Airflow Capacity	250 CFM (Nom.), 500 CFM (Max.)	Power Consumption	100 W (Max)
Sound Level*** (Nominal Cleaning)	NC-27	Minimum Circuit Ampacity (MCA)	1.05 A
Sound Level*** (Max Cleaning)	NC-35	Temperature Range	0 - 140 F
Filter Life	6 Months*	Humidity Range	5 - 85% RH (non-condensing)
Unit Dimensions (L x W x H)	23" x 26" x 14"	Compliance and Certifications	UL 867, UL 2998, UL 900, CARB

*** 1m from unit