

Centralized Intelligent Clean Air System

PRODUCT DESCRIPTION

smartIAQ® is an Intelligent Clean Air System that continuously cleans the air, addressing the design compounds listed in ASHRAE standard 62.1-2019 and -2022 to achieve compliance with the Indoor Air Quality Procedure. smartIAQ is designed to offset the high cost of conditioning excess outdoor air; making systems less costly to deploy and operate, delivering real ROI; all the while ensuring indoor air quality meets current standards.

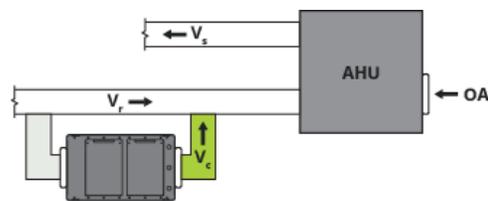
Design primarily to be installed in **mechanical rooms** or in **open plenum returns**, the smartIAQ SIAQ1-CENT integrates with a HVAC system drawing air from the return duct or plenum in a side stream configuration, before cleaning it and delivering it back to the air-stream. By addressing design compounds above and beyond simple comfort HVAC filtration, the SIAQ1-CENT facilitates the reduction of outside air ventilation allowing for the downsizing of HVAC equipment.

Multiple units can be installed in **parallel** to clean in excess of 10% of system capacity (see application design guide).

smartIAQ is informed by a panel of solid state, calibrated, air quality sensors that indicate prevailing air quality and support reporting of air quality concerns and filter end of life.

STANDARD FEATURES

- Integral EC Blower - varies from 120CFM in Monitor mode through to a Peak Clean flow of 700CFM.
- Quiet operation - Nominal 35 dB(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
- Digital BMS integration via modbus RTU Protocol
- BACnet Gateway Included
 - MS/TP (RS-485) or IP (Ethernet)
- Integrated universal voltage transformer
- Remote status indicator
- Ancillary Flow Switch tying operation to main HVAC system



Standard Deployment

FILTRATION DETAILS

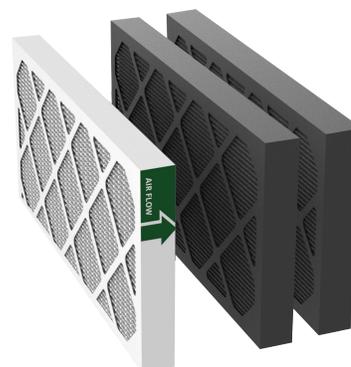
The SIAQ1-CENT utilizes high efficiency Particulate and Molecular filters to address defined design compounds.

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

Qty 1 (one) 2" MERV 14 Particulate

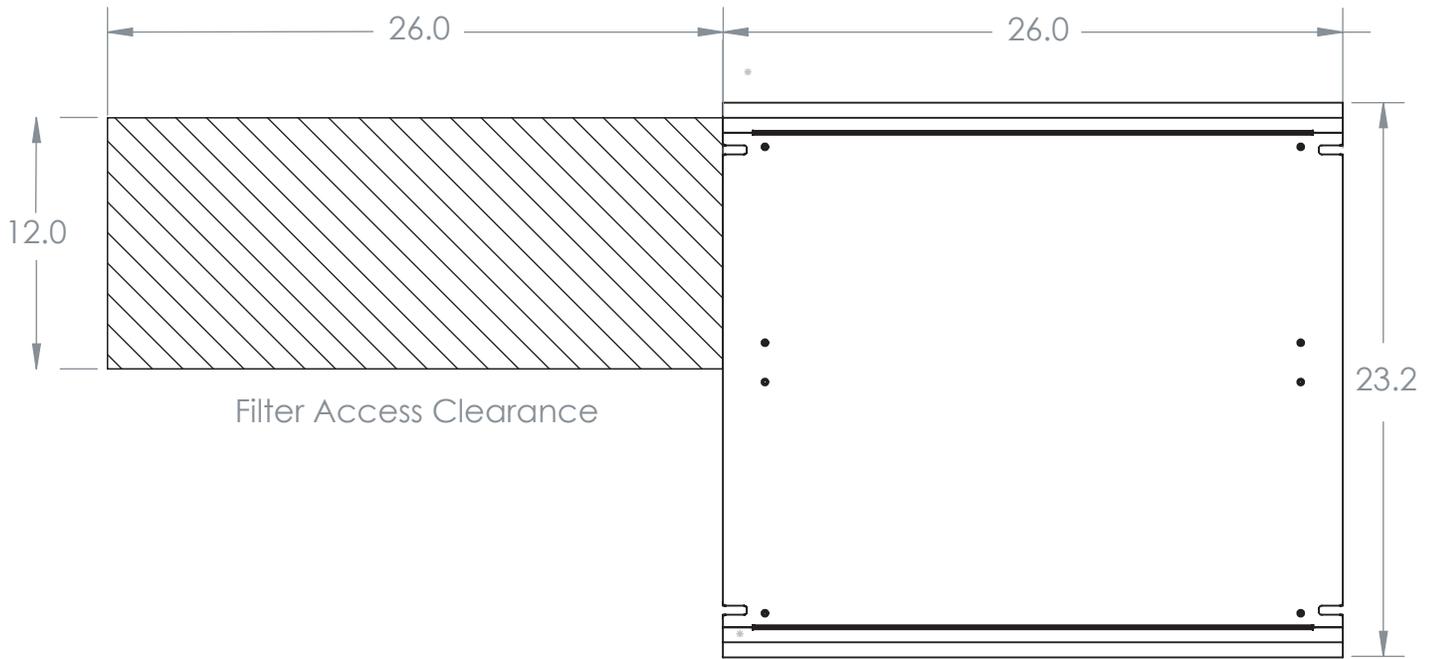
Qty 2 (two) 2" Molecular Filter

Unit achieves 6 months of filter life*



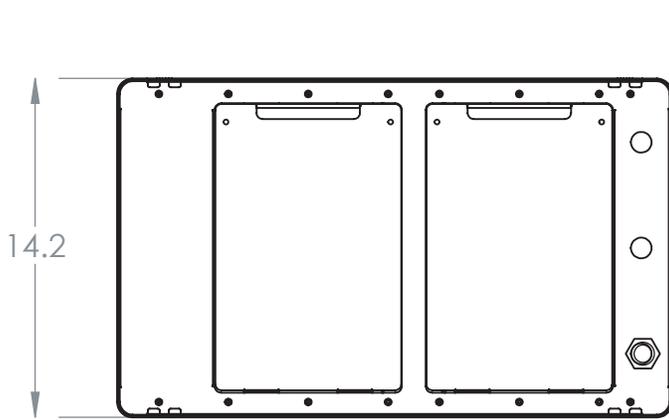
* Based on ASHRAE published generation rates for design compounds

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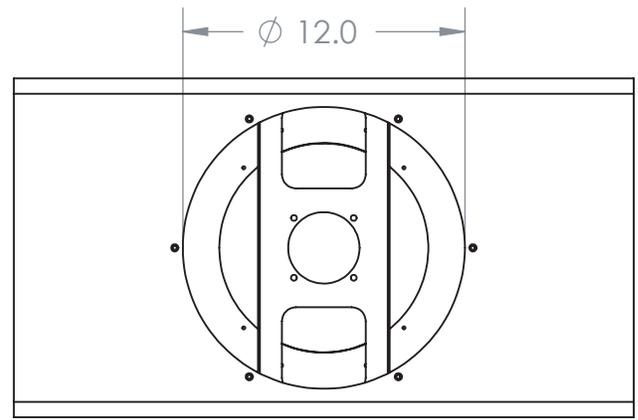


Filter Access Clearance

Plan View



Service Side Elevation



Supply End Elevation

SIAQ1-CENT : SPECIFICATIONS

Standard Input Voltage/Frequency	120 or 208/230/277/347 VAC, 50 / 60 Hz	Weight (Standard Unit)	78lbs
Airflow Capacity	Up to 700 CFM	Power Consumption	200 W (Max)
Sound Level** (Nominal Cleaning)	NC-35	Minimum Circuit Ampacity (MCA)	2.08 A
Filter Life*	6 months*	Temperature Range	0 - 140 F
Unit Dimensions (L x W x H)	23" x 26" x 14"	Humidity Range	5 - 85% RH (non-condensing)
** 1m from unit		Compliance and Certifications	UL 867, UL 2998, UL 900, CARB