

Distributed Intelligent Clean Air System

PRODUCT DESCRIPTION

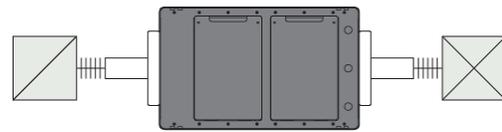
smartIAQ® is an Intelligent Clean Air System that provides demand-driven air cleaning of the design compounds listed in ASHRAE standard 62.1-2019 and -2022 to achieve compliance with the Indoor Air Quality Procedure. smartIAQ is designed to offset the high cost of conditioning excess outdoor air; making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

Operating independently of an HVAC system, smartIAQ is dedicated to ensuring clean air is delivered to the breathing zone when needed, with models configured to cover in up to 4 discrete zones. This allows the SIAQ1-DIST Series to facilitate the reduction of outside air ventilation allowing for the downsizing of HVAC equipment. 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.

smartIAQ is powered by digital control, informed by a panel of solid state, calibrated, air quality sensors that manage the cleaned airflow, utilizing a minimum airflow in an idle state while sensing and ramping to cleaning speed when needed.

STANDARD FEATURES

- Integral EC Blower - varies from 120CFM in Monitor mode through to a Peak Clean flow of up to 500CFM.
- 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
- 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 Single Zone Deployment

MODEL CONFIGURATIONS

SIAQ1-DIST1S	Standard Single Zone Applications (less than 1,000 sqft Max Flow = 250 CFM, 1 x Particulate Filter, 1 x Molecular Filter)
SIAQ1-DIST1L	Large Single Zone Applications (greater than 1,000 sqft, Max Flow = 500 CFM, 1 x Particulate Filter, 2 x Molecular Filter)
SIAQ1-DIST2	2 Zone Applications (Max Flow = 500 CFM, 1 x Particulate Filter, 1 x Molecular Filter)
SIAQ1-DIST3	3 Zone Applications (Max Flow = 500 CFM, 1 x Particulate Filter, 2 x Molecular Filter)
SIAQ1-DIST4	4 Zone Applications (Max Flow = 500 CFM, 1 x Particulate Filter, 2 x Molecular Filter)

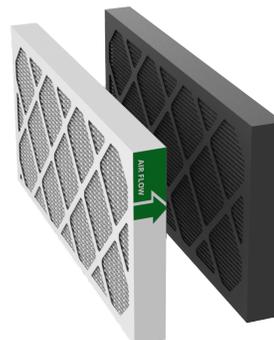
FILTRATION DETAILS

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

The Base Level Kit (SIAQ-P14MK-12242) is included, which consists of:

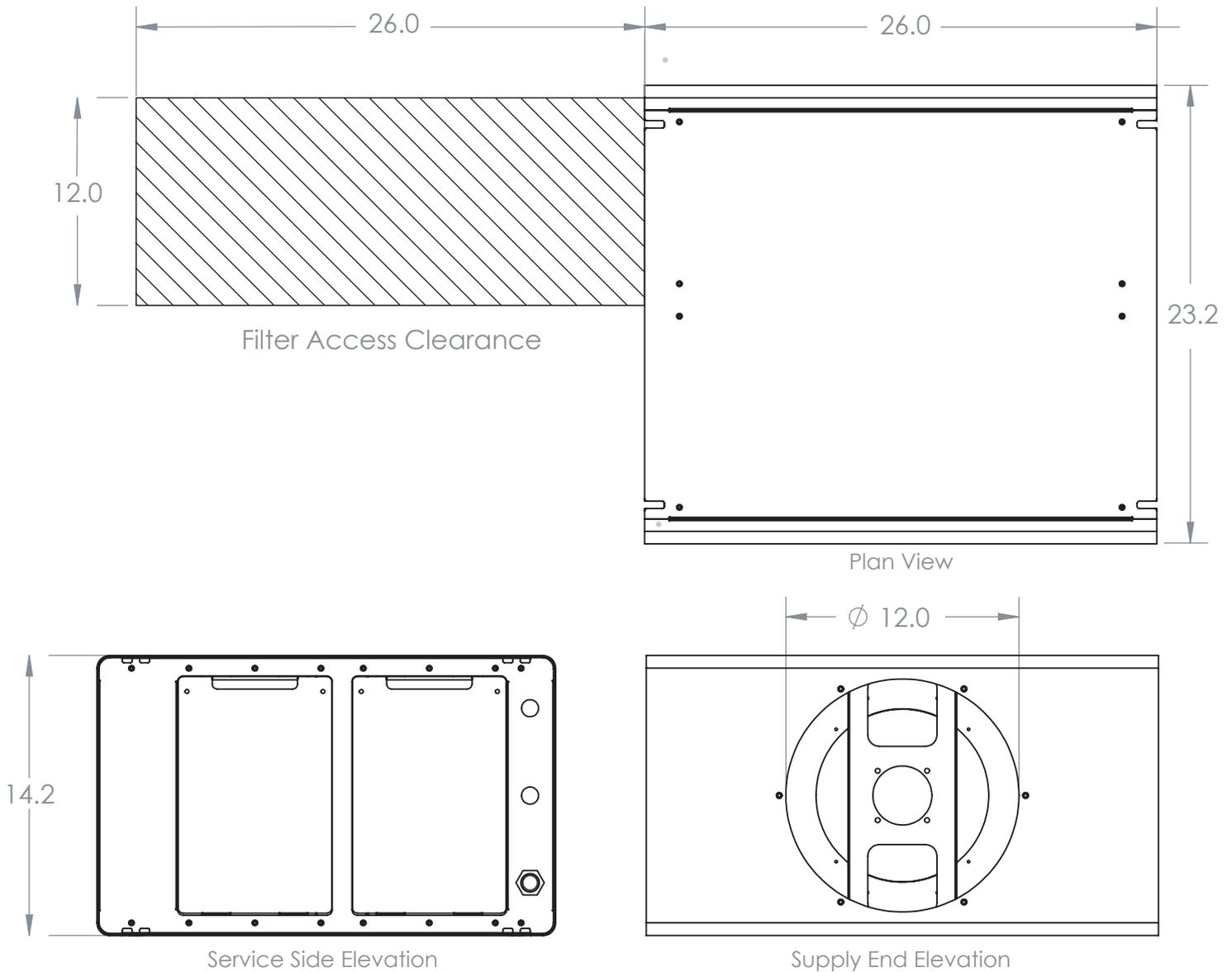
- Qty 1 (one) 2" MERV 14 Particulate
- Qty 1 (one) 2" Molecular Filter

Unit achieves over 1 year of filter life*



*Based on ASHRAE published generation rates for design compounds

Distributed Intelligent Clean Air System



SIAQ1-DIST : 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	Up to 500 CFM	Power Consumption	100 W (Max)
Sound Level** (Sensing Mode)	NC-25	Minimum Circuit Ampacity (MCA)	1.05 A
Sound Level** (Nominal Cleaning)	NC-27	Temperature Range	0 - 140 F
Filter Life	Over 1 year*	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