

INTELLIGENT CLEAN AIR SYSTEMS

DEVICE SCHEDULE - smartIAQ GridSet SYSTEMS

TAG	LOCATION / AREA SERVED	MAX CFM	GPS MODEL NO.	QTY	COMPATIBLE POWER HUB	POWER HUB QTY	POWER HUB INLET / OUTLET VOLTAGE	FREQUENCY	POWER HUB MCA @ 120V*	MOCP	MAXIMUM NOISE CRITERION MAX	COMPLETEAQ FILTER SIZE	MIN ION OUTPUT (IONS/CC)	NOTES
		150	SIAQ2-DIST15-DC-BK-48-NC		sIAQ-HB4		100 - 240VAC / 48 VDC	60 Hertz	2.5 A	15 A	25	20" x 20" x 2"	160 Million	1 to 12, 13, 14
		150	SIAQ2-DIST15-DC-BK-48-BMS		sIAQ-HB4P-BN		100 - 240VAC / 48 VDC	60 Hertz	2.5 A	15 A	25	20" x 20" x 2"	160 Million	1 to 12, 13, 14, 15
		150	SIAQ2-DIST15-DC-BK-48-BMS		sIAQ-HB4P-MB		100 - 240VAC / 48 VDC	60 Hertz	2.5 A	15 A	25	20" x 20" x 2"	160 Million	1 to 12, 13, 14, 15

* Maximum MCA when (4) GridSet units connected to a single power hub

Notes Applicable to all units:

Select One:

1. Basis of Design: ASHRAE Standard 62.1 Indoor Air Quality Procedure utilizing smartIAQ GridSet; maximum area served per GridSet = 1500 sq ft
- OR 1. Basis of Design: smartIAQ GridSet; maximum area served per GridSet = 1500 sq ft
2. Provide smartIAQ Hub-4 (or Hub-4 Pro) to power up to (4) GridSet units within 300' of smartIAQ Hub (120V-1-60 Input, 48 VDC output, 300W max load)
3. To power GridSet, connect each Gridset unit to a Power Hub via 48V CAT 5/5E cable with RJ45 connectors (also used for communication for Pro variants)
4. Complies with the current air cleaning design compound removal efficiencies as outlined in ASHRAE Standard 52.2 for particulate and ASHRAE 145.2, Laboratory Test Method for Assessing the Performance of Gas Phase Air Cleaning Systems
5. Complies with UL 2998, "Environmental Claim Validation Procedure for Zero Ozone Emissions from Air Cleaners". *Must be CARB compliant for California applications.*
6. Complies with ASHRAE Standard 241 - 2023 Appendix A (3rd Party Safety Testing).
7. Variable speed Electronically Commutated Motor (ECM) is standard equipment.
8. Compatible with non-proprietary standard filters (IAQP application must use filters certified to ASHRAE 52.2 and 145.2 testing standards)
9. Coordinate mounting with ceiling construction type, ensuring compliance with local code for tie-offs or seismic restraint
10. Substitutions must be approved by the engineer
11. NPBI soft ionization technology is standard equipment
12. System shall be capable of actively tracking contaminant levels and operating fan speed to remediate and maximize filter life
13. **OPTIONAL NOTE TO ENGINEER:** Equipment shall be provided with a minimum of (2) CompleteAQ filter sets by the manufacturer; initial filter set to be replaced at building commissioning

Notes to include for standard or base unit only (delete if not used)

14. Standard (base) system includes internal solid state sensor(s) to continuously monitor the following: Motion (Occupancy), Formaldehyde (HCHO), Temperature, Humidity.

Notes to include for Pro unit only (delete if not used)

14. Pro System includes internal solid state sensor(s) to continuously monitor the following: Motion (Occupancy), Formaldehyde (HCHO), Temperature, Humidity, Carbon Dioxide (CO₂), TVOC, PM_{1.0}, PM_{2.5}, PM_{4.0}, PM_{10.0}.
15. Pro System shall provide BMS integration with BACnet MS/TP protocol or Modbus via RS-485 connection to report air quality parameters and respond to speed commands, inhibit, or run.

NOTES TO DESIGNER COMPLETING THE TABLE:

Notes are set up in three sections to allow the designer to build the appropriate table for drawings. Items 1 - 12 apply to all equipment in the table. Select the remaining notes based on application of the standard or base GridSet model or the Pro model.

For Note #1: should a project utilize air cleaning equipment for better indoor air, and not for the purpose of reducing the outside air, select the "Basis of Design: smartIAQ GridSet; maximum area served per GridSet = 1500 sq ft

- GPS GridSet model number SIAQ2-DIST15-DC-BK-48-NC: standard (base) model, standalone operation; continuously monitors Motion (Occupancy), Formaldehyde (HCHO), Temperature, Humidity; cannot be configured to connect to building management system
 - Compatible Power Hub for standard (base) model = sIAQ-HB4
 - Capable of powering up to (4) GridSet units located within 300' of the Power Hub
- GPS GridSet model number SIAQ2-DIST15-DC-BK-48-BMS: pro model, continuously monitors Motion (Occupancy), Formaldehyde (HCHO), Temperature, Humidity, Carbon Dioxide (CO₂), TVOC, PM_{1.0}, PM_{2.5}, PM_{4.0}, PM_{10.0}; Bacnet or Modbus enabled
 - IMPORTANT: Power Hub Not field convertible (from Modbus to BACnet) if incorrect unit ordered**
 - Compatible Power Hub for Pro model options, select one:
 - Modbus: sIAQ-HB4P-MB
 - BACnet (MS/TP): sIAQ-HB4P-BN