

INTELLIGENT CLEAN AIR SYSTEMS



DEVICE SCHEDULE - DISTRIBUTED smartIAQ® SYSTEMS

AREA / TAG	NUMBER OF ZONES SERVED	MAX CFM	GPS MODEL	GPS QTY	VOLTAGE	MOUNTING LOCATION	MAX WATTS	MCA	OPERATING SOUND (NC) NOM / MAX	MIN ION OUTPUT (IONS/CC)	NOTES
-	1 <= 1,000 sqft	250	SIAQ1-DIST1S-DC-BK-120		120-1-60		25	0.26 A	- / 26	160 Million	1 to 12
-	1 > 1,000 sqft	500	SIAQ1-DIST1L-DC-BK-120		120-1-60		100	1.05 A	26 / 35	160 Million	1 to 12
-	2	250	SIAQ1-DIST2-DC-BK-120		120-1-60		25	0.26 A	26 / 35	160 Million	1 to 12
-	3	500	SIAQ1-DIST3-DC-BK-120		120-1-60		100	1.05 A	26 / 35	160 Million	1 to 12
-	4	500	SIAQ1-DIST4-DC-BK-120		120-1-60		100	1.05 A	26 / 35	160 Million	1 to 12

1. Basis of Design: smartIAQ®; Substitutions must be approved by the engineer, subject to specification compliance.
2. If contractor substitutes basis of design with another manufacturer, contractor shall coordinate all electrical and mechanical changes.
3. Must Comply with Indoor Air Quality performance requirements in ASHRAE 62.1-2022, by way of utilizing the Indoor Air Quality Procedure.
4. Evaluation of Dedicated Clean Air System removal efficacies of design compounds shall comply with ASHRAE 145.2 – 2016.
5. Provide proof of compliance with UL 2998, "Environmental Claim Validation Procedure for Zero Ozone Emissions from Air Cleaners". *Must be CARB compliant for California applications.*
6. Proof of compliance to ASHRAE 241- 2023 Appendix A (3rd Party Safety Testing).
7. System should employ internal solid state sensor(s) to continuously monitor the following: Carbon Dioxide (CO₂), Formaldehyde (HCHO), TVOC, PM_{1.0}, PM_{2.5}, PM_{4.0}, PM_{10.0}, Temperature, Humidity.
8. System will only run when a space is occupied, thereby extending filter life.
9. [As required] Serial BacNet interface to report air quality parameters and respond to speed commands, inhibit, or run.
10. ECM blower/motor only.
11. Filters shall be industry standard size and non-proprietary to the device manufacturer.
12. Optional Power Supply for 203/230/277/347-1-60: (SIAQ1-UNVX).

DEVICE SCHEDULE - CENTRALIZED smartIAQ SYSTEMS

AREA / TAG	NUMBER OF ZONES SERVED	MAX CFM	GPS MODEL	GPS QTY	VOLTAGE	MOUNTING LOCATION	MAX WATTS	MCA	NOMINAL OPERATING SOUND (NC)	MIN ION OUTPUT (IONS/CC)	NOTES
-	see note 3	700	SIAQ1-CENT-DC-BK-UNV		120/203/230/347-1-60		200	2.08 A	26 / 35	160 Million	1 to 11

1. Basis of Design: smartIAQ; Substitutions must be approved by the engineer, subject to specification compliance.
2. If contractor substitutes basis of design with another manufacturer, contractor shall coordinate all electrical and mechanical changes.
3. Intelligent Clean Air System integrates into central HVAC system in a sidestream configuration.
 4. Multiple units can be installed in parallel to each other for higher capacity systems.
 5. Must Comply with Indoor Air Quality performance requirements in ASHRAE 62.1-2022, by way of utilizing the Indoor Air Quality Procedure.
6. Evaluation of Dedicated Clean Air System removal efficacies of design compounds shall comply with ASHRAE 145.2 – 2016.
7. Provide proof of compliance with UL 2998, "Environmental Claim Validation Procedure for Zero Ozone Emissions from Air Cleaners". *Must be CARB compliant for California applications.*
8. Proof of compliance to ASHRAE 241- 2023 Appendix A (3rd Party Safety Testing).
9. System should employ internal solid state sensor(s) to continuously monitor the following: Carbon Dioxide (CO₂), Formaldehyde (HCHO), TVOC, PM_{1.0}, PM_{2.5}, PM_{4.0}, PM_{10.0}, Temperature, Humidity.
10. System will only run when a space is occupied, thereby extending filter life.
11. [As required] Serial BacNet interface to report air quality parameters and respond to speed commands, inhibit, or run.
12. ECM blower/motor only.
13. Filters shall be industry standard size and non-proprietary to the device manufacturer.

DEVICE SCHEDULE - PERFORMANCE smartIAQ SYSTEMS

AREA / TAG	NUMBER OF ZONES SERVED	MAX CFM	GPS MODEL	GPS QTY	VOLTAGE	MOUNTING LOCATION	MAX WATTS	MCA	NOMINAL OPERATING SOUND (NC)	MIN ION OUTPUT (IONS/CC)	NOTES
-	1	500	SIAQ1-PERF-CC-BK-120		120/1/60		100	1.05 A	26 / 35	160 Million	1 to 11

1. Basis of Design: smartIAQ; Substitutions must be approved by the engineer, subject to specification compliance.
 2. If contractor substitutes basis of design with another manufacturer, contractor shall coordinate all electrical and mechanical changes.
 3. Must Comply with Indoor Air Quality performance requirements in ASHRAE 62.1-2022, by way of utilizing the Indoor Air Quality Procedure.
 4. Evaluation of Dedicated Clean Air System removal efficacies of design compounds shall comply with ASHRAE 145.2 – 2016.
 5. Provide proof of compliance with UL 2998, "Environmental Claim Validation Procedure for Zero Ozone Emissions from Air Cleaners". *Must be CARB compliant for California applications.*
 6. Proof of compliance to ASHRAE 241- 2023 Appendix A (3rd Party Safety Testing).
 7. System should employ internal solid state sensor(s) to continuously monitor the following: Carbon Dioxide (CO₂), Formaldehyde (HCHO), TVOC, PM_{1.0}, PM_{2.5}, PM_{4.0}, PM_{10.0}, Temperature, Humidity.
 8. System will only run when a space is occupied, thereby extending filter life.
 9. [As required] Serial BacNet interface to report air quality parameters and respond to speed commands, inhibit, or run.
 10. ECM blower/motor only.
 11. Filters shall be industry standard size and non-proprietary to the device manufacturer.
 12. Optional Power Supply for 203/230/277/347-1-60: (SIAQ1-UNVX).
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