Installation, Operation and Maintenance Guide

AtmosSmart IoT

OUR MISSION
To improve health and wellness by actively restoring indoor air to its pure, natural state where no pollution or contaminants exist, while reducing energy use and emissions in the process.

IMPORTANT
Save this Document for Future Reference & Warranty Information

AtmosAir.com
CAG-24-03-007

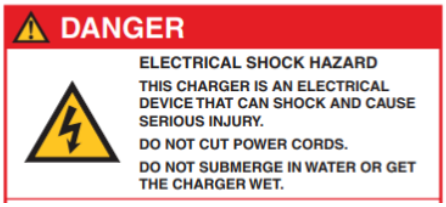
Trademarks

Any brand names and product names included in this document are trademarks, registered trademarks, or trade names of their respective holders.

To the Holder of this Document

The contents of this document are current as of the date of publication. AtmosAir® reserves the right to change the contents without prior notice.

In no event will AtmosAir be liable for any special, incidental, or consequential damages or for commercial losses even if AtmosAir has been advised thereof as a result of issue of this document.



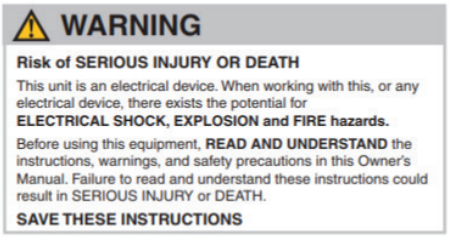
WARNING

Failure to follow this warning could result in personal injury or death.

RISK OF ELECTRIC SHOCK - These servicing instructions are for use by qualified personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

For installation you MUST:

- Always disconnect all electrical power to the unit before handling any of the components, to the air handler before removing access panels, or to perform any maintenance activities.
- Do NOT connect to the power before the installation is complete and personnel are aware of the imminent operation – secondary voltage to the ionization tube can be as high as 3,000 VAC.
- Installation of AtmosAir equipment is not to be performed in areas with extreme conditions such as extreme heat or cold, or where water or condensing moisture can impact the system.
- Carefully read this instruction booklet before beginning the installation.
- Follow each installation or repair step exactly as shown and explained in this guide.
- Observe all local, state, national, and international electrical codes.
- Pay close attention to all warnings and caution notices given in this guide.



1. Before installing or servicing system, always turn off main power to system.
   Note: There may be more than one disconnect switch.
2. AtmosAir equipment must be installed with a proper ground. The electrical cable enclosed with your AtmosAir unit must be used as it has a special plug which provides a ground circuit for the equipment.
3. Always replace fuse with the same rating and type of fuse.
4. Failure to follow this caution may result in personal injury or product and/or property damage.
5. Although special care has been taken to minimize sharp edges in the construction of your unit, be extremely careful when handling parts or reaching into the unit.
6. Keep path clear near and in front of intake screen.
7. Do NOT block or obstruct the air flow over or around the ionizing tubes.
8. Do NOT touch ionizing tubes when power is on.
9. Do NOT operate outside of this range: -1°C to 49°C (30°F to 120°F).
10. Tube cleaning should be performed only when the power is disconnected.
11. The tubes require minimal cleaning with routine operation and maintenance. Longer operating cycles and reduced ionizing efficiency may indicate the need for cleaning or replacing tubes by your AtmosAir dealer or qualified installer.

Commissioning Statement

Do not commission new airhandlers after installation. All duct cleaning must be performed before the unit is installed.

Disclaimer: The air purification technologies provided by Clean Air Group are intended to improve indoor air quality. They are not intended as a replacement for reasonable precautions aimed at preventing the transmission of contaminants, airborne or otherwise. All persons having access to the serviced premises should comply with applicable public health laws and guidelines issued by federal, state and local governments and health authorities such as the Centers for Disease Control and Prevention (CDC). Clean Air Group does not maintain that its products will protect people from all modes of transmission of bacteria, viruses or other contaminants, and excludes liability for loss or damage arising from any such claims or the consequences arising out of the application, use or misuse of its products.

Table of Contents

01 PRODUCT OVERVIEW

APPLICATION

The AtmosSmart ionization system's sensor head & controller is intended to be mounted in the return duct or air handler of a heating, cooling or ventilating system that is supplying air to the same AHU. The standard unit simplifies monitoring and control of up to eight (8) AtmosAir™ Active Ionization Systems, using BACnet IP Communication.

SPECIFICATIONS

Sensor Suite	Range of Measurement
TVOC Sensor (Total Volatile Organic Compounds	0 - 2,000 ppb 10 ppb resolution
CH_2O (Formaldehyde)	0 - 5,000 ppb 1 ppb resolution
PM 1.0, 2.5, 10.0 (Particulate Matter)	0 - 1,000 µg/m³ 1 µg/m³ resolution
RH% (Relative Humidity)	0 - 100 %RH 0.1 %RH resolution
Temperature	-40°F to 257°F (-40°C to 125°C) 0.1°F/°C resolution
O^3 (Ozone)	0 to 10,000 ppb 45 ppb auto-shutoff 10 ppb resolution
CO (Carbon Monoxide)	0 - 500,000 ppb 100 ppb resolution
CO_2 (Carbon Dioxide)	400 - 2,000 ppm 25 ppm resolution
Air Flow Sensor	Differential Pressure Switch* (Optional: Must be ordered)
Control Capacity	Up to 8 AtmosAir™ Ionization Systems* Standard Unit (2) BPI (Requires Atmos Multiplier (4) with optional AtmosEXTender)

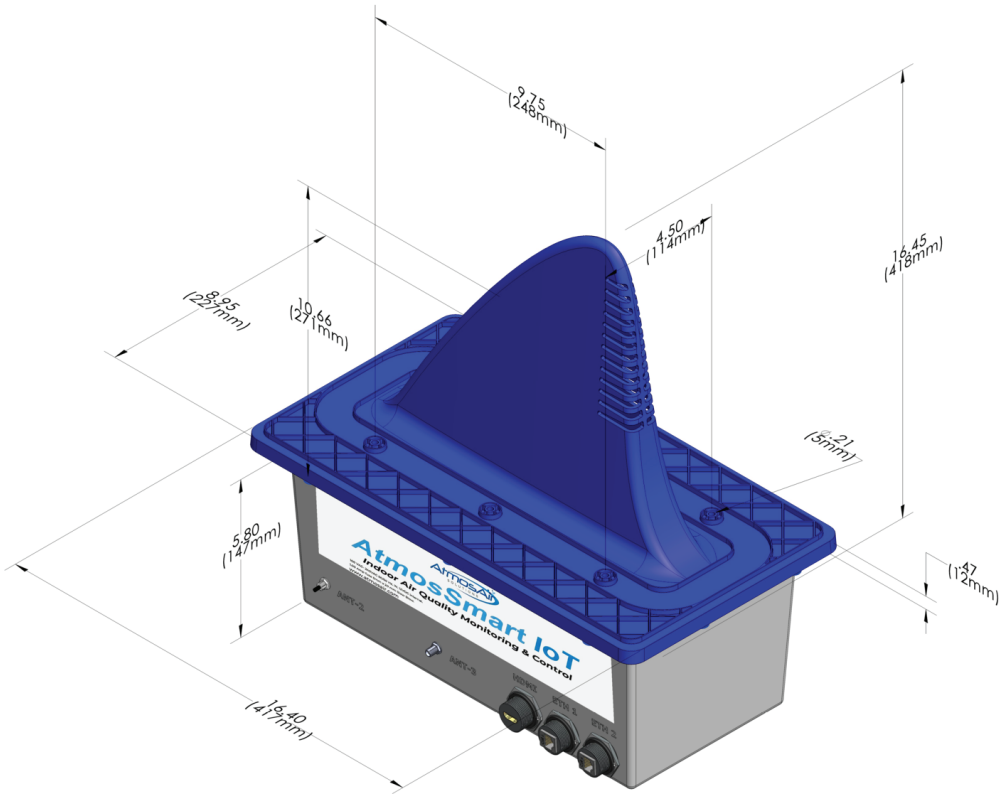
Electrical Statistics	
Rated Voltage	90 to 240 VAC (Auto Switching)
Frequency	50/60 Hz
Power Consumption	120 Watts
Current Draw	1.0 Amp (1,000 mA)
Regulation of BPI Control	Algorithm-Based Modulation
BMS Compatibility	BMS Integration; BTL Certified
Installation Statistics	
Required Space [AA508FC] (L/W/D)	704mm (~27.75") x 273mm (~10.75") x 241mm (~9.5")
Sensor Head Size (L/W/D)	305mm (~12") x 127mm (~5") x 267mm (~10.5")
Weight Installation	Sensor 1.5kg (~3.3lbm) 508FC 10.04kg (~22 lbm)
Internet Connection / Interface	BACnet IP; Optional Cellular Modem required to use online monitoring service
Product Ratings	
Ambient Temperature °F/°C	Range: 14°F to 122°F/ -10°C to 50°C
Protection Class	0% - 99% Non-Condensing
Humidity	0% - 99% Non-Condensing
Ingress Protection	IP41 (DIN EN 60529)
Electrical Safety Compliance	EN 60730-1
EMC Compliance	EN 60730-1, EN 61000-6-1, EN 61000-6-3
Directives	2006/95/EC, 2004/108/EC, 2011/65/EU

1.1 General Product Description

AtmosSmart™ is an integrated sensor array designed for installation in the RETURN duct of a typical HVAC air handling unit (AHU) system. This array senses air quality by sampling 8 different parameters (see below) to determine proper ion intensity levels produced by the AtmosAir™ air purification systems. The internationally certified and patented AtmosAir™ System enables consistent and desirable air quality levels through optimum regulation of Bi-Polar Ionization emanating from AtmosAir Ionization Tubes using preset intelligent algorithms. The system is fully addressable and has two-way data communication and control capabilities.

1.2 Smart IoT Communication Output Options

The Smart IoT unit offers BACnet IP (Internet Protocol) and cloud-based environmental monitoring; either or both options can be used. AtmosAir provides a BACnet IP configuration tool allowing the installer to program the Smart IoT unit at the installed location. Users can revise the BACnet IP configuration using the same tool eliminating the need for AtmosAir factory assistance. Cloud-based environmental monitoring is always active and available on the Smart IoT unit; however, a cellular modem option must be purchased from AtmosAir to provide data communication to the cloud. Your salesperson will be glad to assist you with this option.



1.3 Mode of Operation

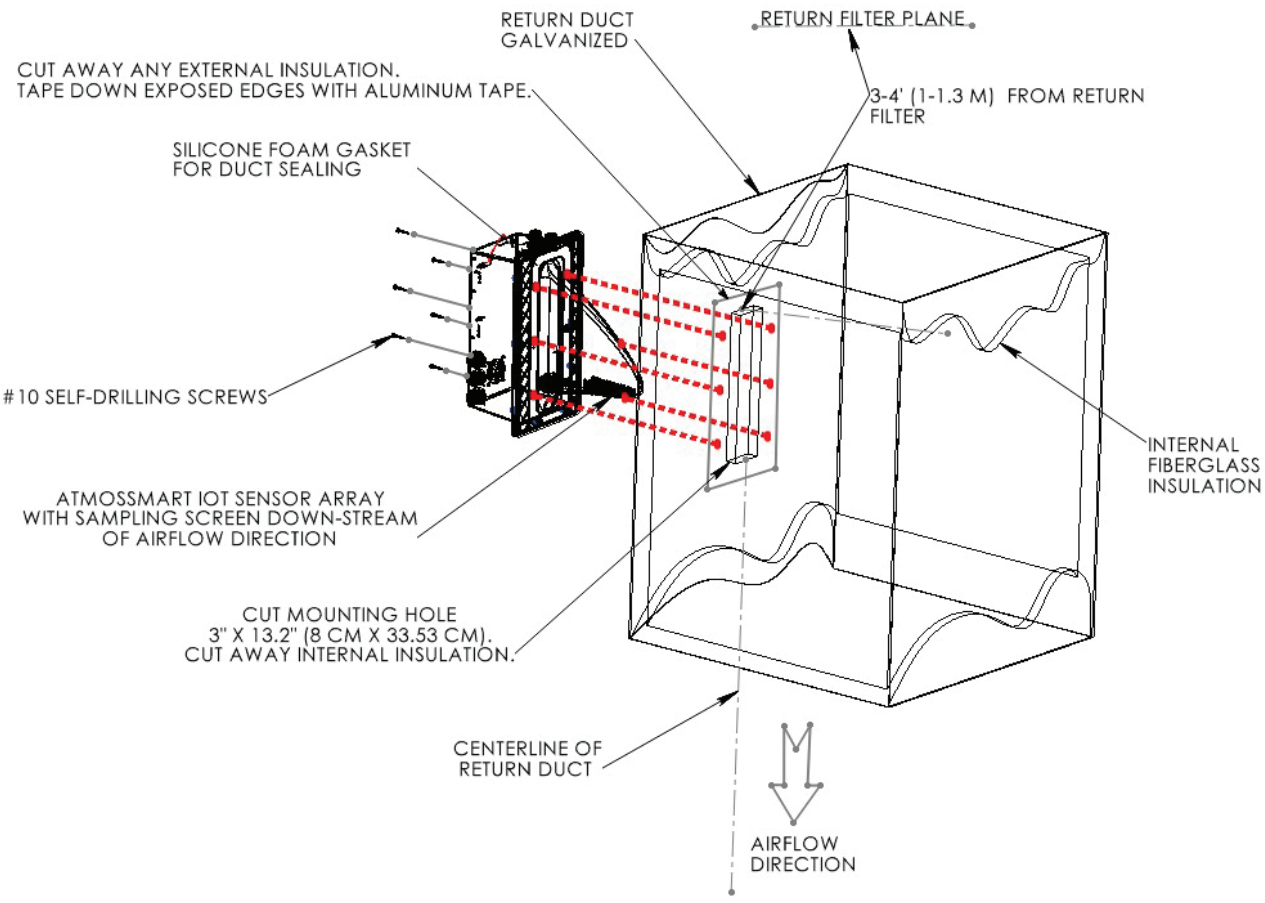
The AtmosSmart™ Sensor array monitors 8 sensors in its standard configuration: Temperature in °F/°C, Humidity in RH%, TVOC (total volatile organic compounds), CO (Carbon monoxide), CO_2 (Carbon dioxide) which is helpful in determining occupancy, O_3 (Ozone), HCHO (Formaldehyde), and PM (Particulate Matter). The IAQ readings can be output by attaching an HDMI capable display via an HDMI port located in the Sensor Array body. The display can be placed up to 35' (10 meters) away from the sensory array. The HDMI port can output to a Tablet or a remote display. Longer HDMI runs than 35' are achievable with an HDMI repeater. AtmosSmart™ is BMS compatible through BACnet IP and displays real-time Indoor Air Quality data to BMS.

02 INSTALLATION

The Sensor Array is housed in a doubly insulated hi-impact plastic enclosure which is placed in the duct work or AHU. If placed in the duct, a 3" × 13.2" (8 cm × 33.5 cm) rectangular cut-out is made in a typical sheet-metal return approximately 3-4 feet (1.0 – 1.2 m) downstream from the return filter (if existing). It is recommended, but not required, that the cut-out is usually made in the bottom of the duct for access/ wiring/ service.

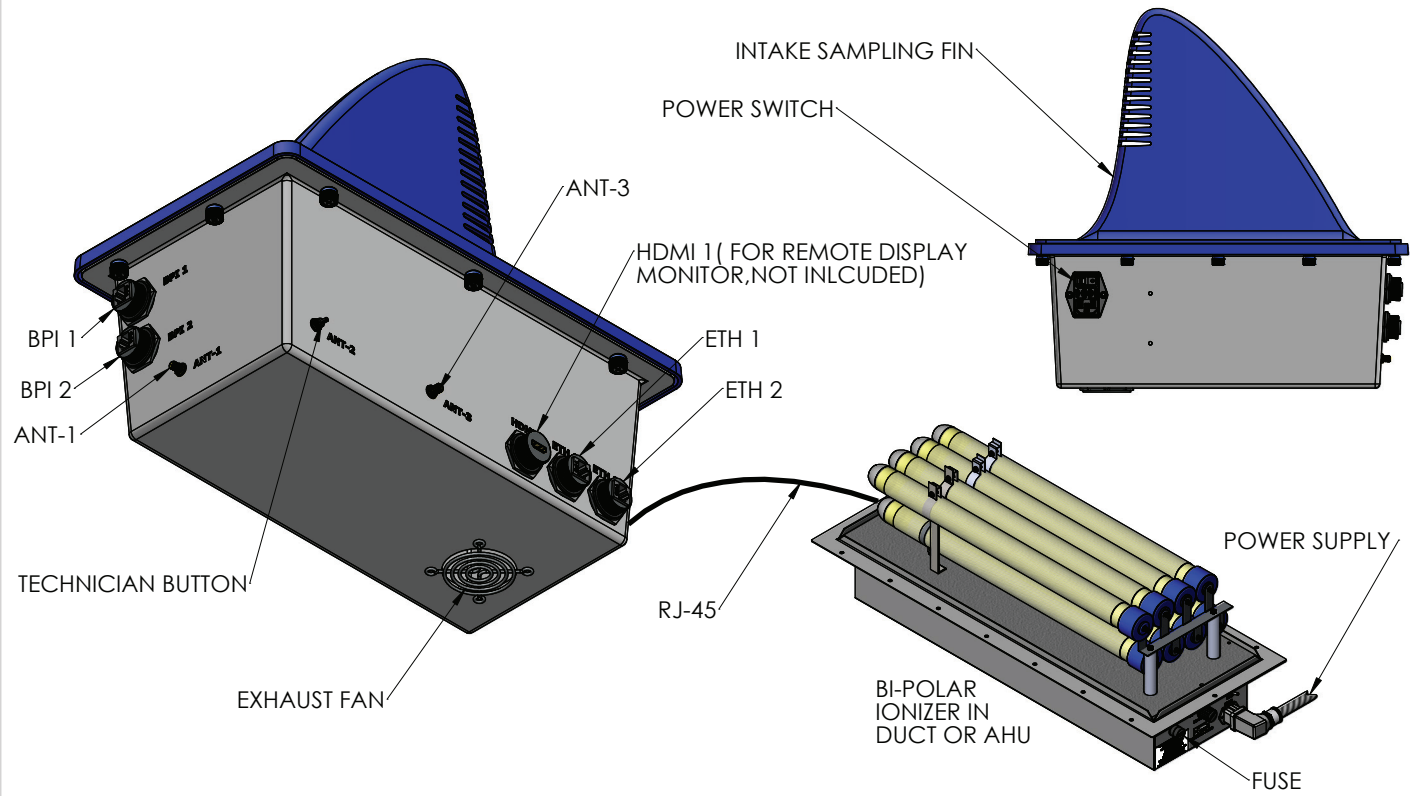
The Sensor head should be mounted so that it is oriented on the centerline of the return duct with the sampling screen facing downstream of air flow direction.

AtmosSMART SENSOR ARRAY MOUNTING DIAGRAM



As many as 8 AtmosAir BPI units (500 Series and/or Matterhorn Series) can be controlled and monitored via the AtmosSmart™ system. More than one BPI unit being controlled is considered a custom application. The AtmosSmart™ systems are available in single BPI control or double (two-unit) control, as may be ordered. If more than one BPI unit control is required, then the AtmosSmart™ must be ordered that way. If more than a two-unit AtmosSmart™ controller is ordered, and additional BPI units are desired or specified, then a multiplier is required - which can accommodate up to 8 BPI units per AHU.

Each AtmosSmart™ equipped 508 series/ Matterhorn Series has attached to it a dedicated controller/ communication box (the module is named 'AtmosComms2') that controls the BPI ionization intensity.



		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± .010 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±.010 THREE PLACE DECIMAL ±	DRAWN	HRG	10/1/17
			CHECKED: E.E.	DD	10/2/17
			ENG APPR.	TA	10/3/17
			Rev B	SB	2/22/21
		INTERPRET GEOMETRIC TOLERANCING PER:	RE-DRAWN	JOR	11/8/23
		MATERIAL	COMMENTS: FIELD WIRING DIAGRAM FOR CONNECTING ATMOSSMART IOT/508 OUTDOOR AIR SENSOR ARRAY		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ATMOSAIR SOLUTIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ATMOSAIR SOLUTIONS IS PROHIBITED.

ATMOSAIR SOLUTIONS

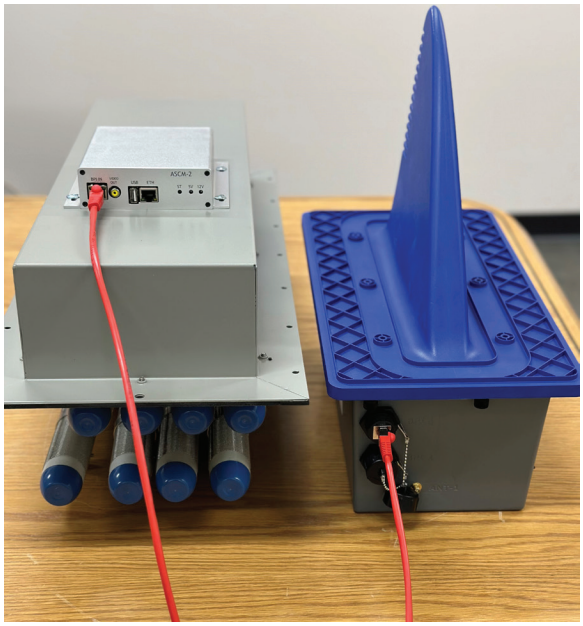
TITLE:

ATMOS SMART FIELD WIRING DIAGRAM

SIZE	DWG. NO.	REV.
A	ATMFIEDIAG-02	B
NO SCALE	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1

The AtmosComms2 module is connected via Cat5e cable to the AtmosSmart™ sensor array.



Warning: Installer must use the specified AtmosAir Cat5e cable. No substitutions are allowed.

Typically, the 500 Series or Matterhorn Series are either mounted in the supply duct, transition duct, or on racks or mounts within the Air Handling Unit. Note: See AtmosAir 500 Series or Matterhorn Series IOM for detailed AtmosAir system installation instructions.

Warning: Verify this is a well-grounded branch dedicated circuit.

The AtmosSmart sensor array is powered by a standard 120/240 VAC power cord that is supplied with the unit.

All the 500 series BPI systems are wired to dedicated well-grounded 15-amp, 110-125 Vac 50 Hz or 120 Vac 60Hz service via a dedicated, well-grounded junction box. This circuit should be electrically protected from floating grounds and erroneous voltage spikes, such as surges and sags.

The AtmosComms2 control system derives its operational power from the same main field wired circuit providing power to the AtmosAir 500 Series or Matterhorn series. (Refer to warning note above).

The sensor head reads multiple indoor air quality (IAQ) data-sets in real time by sensing air properties in the Return Air system. This configuration allows the sensor to regulate IAQ based on demand, contaminant levels, humidity, and occupancy every few seconds.

The Bi-polar Ionization power, ionization output and duration are based on these readings and decisions made using AtmosAir proprietary algorithms every 30 seconds. Bandwidth decision time, algorithms and operational parameters are tailored and customized in AtmosAir facilities to the final customer's application.

A coarse debris screen is installed on the impeller sensor port. The internal fan in the AtmosSmart™ Sensor Array assures continuous metering and sampling of the air and the space in front of the screen should not be obscured or restricted. The sensor should not be subjected to condensing moisture nor temperatures exceeding the range of 30 °F to 120 °F (-1 °C to 49 °C).

03 STEP BY STEP INSTALLATION

1. Determine centerline of return duct and or transition return duct, mark centerline.
2. Mounting locations shall be at least 4 feet or (1.25 m) from filters, obstructions, fire sensors, turning vanes or dampers.
3. The AtmosSmart™ aerodynamically shaped sensor head is designed to protrude through any internal insulation typically found in an HVAC system, and allow a clear unimpeded path so that air can flow to and inside the sensor head.
4. Mark a 13.2-inch x 3.0-inch rectangle where you want to place the air intake sampling fin into the duct and cut it out. The hole may have up to an ½-inch corner radius to make cutting easier.
5. Place the included gasket onto the gasket racetrack.
6. Insert the air intake sampling fin into the duct cutout, ensuring the intake slots face downwind from the airflow.

   Warning: If the ductwork is lined with insulation, the insulation must not interfere with cabling, receptacles, and metering fan airflow from Sensor.

7. Install the six (6) #10 self-drilling pan head screws using a Philips bit. DO NOT USE OTHER SCREWS; THEY WILL NOT FIT
8. Do not overtighten more than is necessary to seal the gasket.

Installing AtmosAir 500 Series in a Duct

Note: Refer to the 500 series (or Matterhorn Series) IOM Manual for typical installation recommendations.

Each AtmosSmart™ enabled 500 series / Matterhorn Series unit has either a Atmos Comms Control or AtmosComms2 controller module integrally installed. The table below shows which version COMMS is installed on your particular equipment. These controller modules communicate with the sensor array and other 500 series units within the particular AHU in which they are installed. To provide power to the BPI units as well as the sensor array, each 500 series and/or Matterhorn Series, unit has a 120 Vac / 240 Vac (nominal) power umbilical that should be connected to a dedicated 15-amp well- grounded service.

120 VAC 500 Series	Comms Control or AtmosComms2
240 VAC 500 Series	Comms Control
120 & 240 VAC Matterhorns	Comms Control

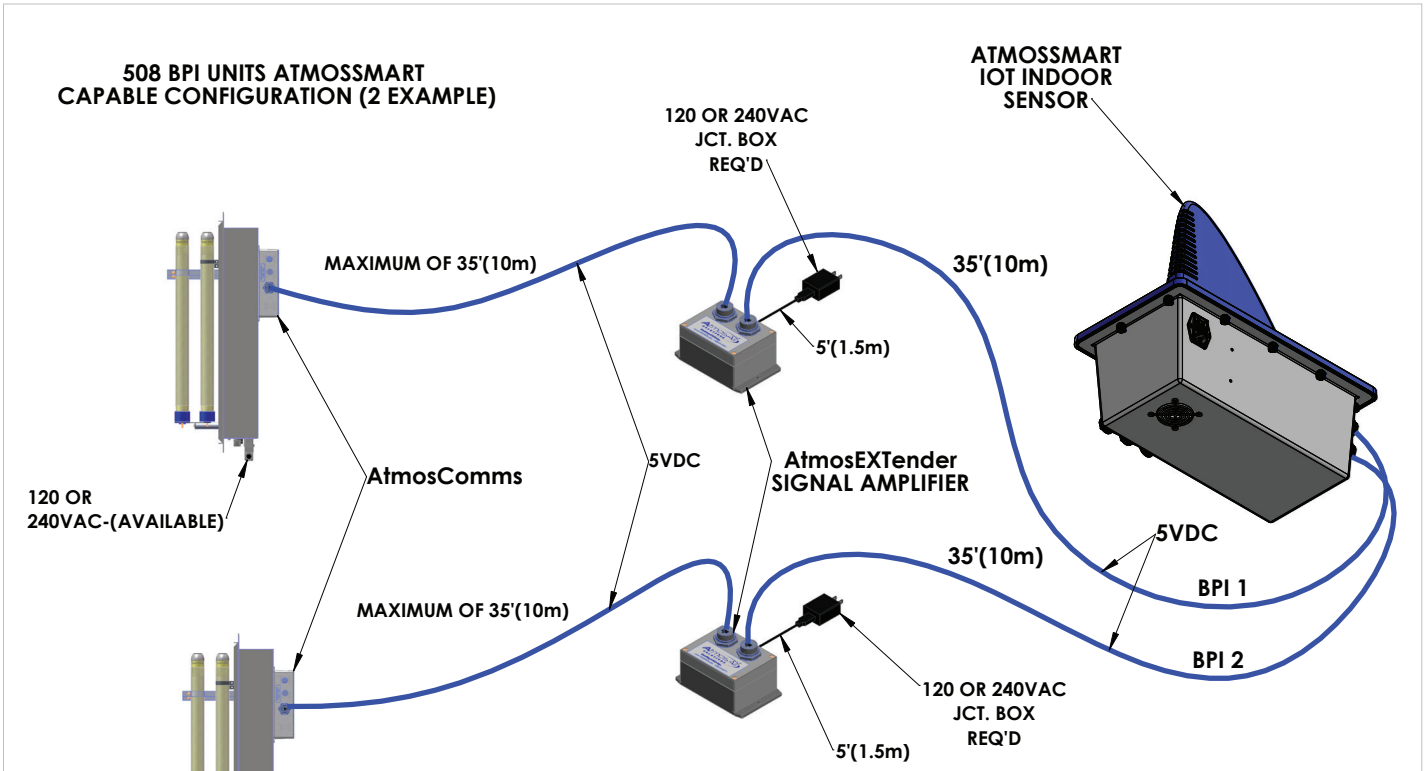
Each Comms Control has a single RJ-45/Cat5e receptacle. The AtmosComms2 has two RJ-45 receptacles. One receptacle is labeled ETH and the other BPI IN. **Nothing should be connected to ETH receptacle.** The only receptacle that should be used is the BPI IN receptacle. Each unit shall be connected, using the cable provided to either of the BPI receptacles on the AtmosSmart IoT for 1 and 2 BPI systems/arrays.

The AtmosMultiplier is required when more than 2 BPI systems are controlled by the AtmosSmart IoT. Each multiplier splits the signal from one of the AtmosSmart IoT BPI receptacles to up to 4 receptacles. Two AtmosMultipliers can be used on each AtmosSmart IoT enabling up to 8 BPI systems to be controlled by one AtmosSmart IoT.

If the distance between the AtmosSmart IoT and Comms Control or AtmosComms2 is greater than 35’ (10 meters), then a AtmosExtender is required.

04 ATMOSSMART EXTENDER OPTION

If the AtmosSmart is going to be installed further than 35' (10m) from the ionizers, an AtmosEXTender option is available. The following diagram shows an AtmosSmart, 2 AtmosEXTenders, and 2 BPI units with the maximum length of 35' (10m) between each device. If a longer cable is used, the AtmosEXTender must be used to overcome voltage drop between the AtmosSmart and the AtmosComms. The EXTender provides a new source of voltage and current to enable an additional 35' (10m) of distance to avoid voltage drop. For every 35' (10m) of additional distance, another AtmosEXTender will be required.



		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± .xxx ANGULAR: MACH ±.xxx BEND ± TWO PLACE DECIMAL ±.xxx THREE PLACE DECIMAL ±	DRAWN	SB	3/12/21
			CHECKED	HG	3/12/21
			REV B	SB	8/9/21
			PRODUCTION APPR.	JS	
		INTERPRET GEOMETRIC TOLERANCING PER:	REDRAWN	JOR	11/6/23
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ATMOSAIR SOLUTIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ATMOSAIR SOLUTIONS IS PROHIBITED.

ATMOSAIR SOLUTIONS

TITLE: ATMOSSMART + AtmosEXTender + 2 BPI EXAMPLE

SIZE		REV.
A	Last Saved: 12/4/2023 Created: 3/12/2021	B
NO SCALE	WEIGHT:	SHEET 1 OF 1

5 4 3 2 1

05 BMS CONNECTIVITY

AtmosSmart is BMS compatible through BACnet IP. Ethernet connection is made from the AtmosSmart system to the BMS using RJ45/Cat5E cable. There are eight (8) BMS read points per AtmosSmart™ controller (see list mentioned earlier). The AtmosSmart™ displays Real-Time IAQ Data to BMS. AtmosAir also offers an optional BMS Remote On/Off Control of the AtmosAir BPI systems.

5.1 BACnet IP Communication Option

The Smart IoT unit has a BACnet IP option to allow the user to send data to their building automation controls and network. The unit must first be configured during installation to activate the BACnet IP functionality. To do this, please refer to the AtmosAir BACnet Configuration Tool User Guide via this link.

5.2 Connecting the laptop to the Smart IoT unit:

1. Connect one end of the Ethernet cable to the Technician's Laptop Ethernet port.

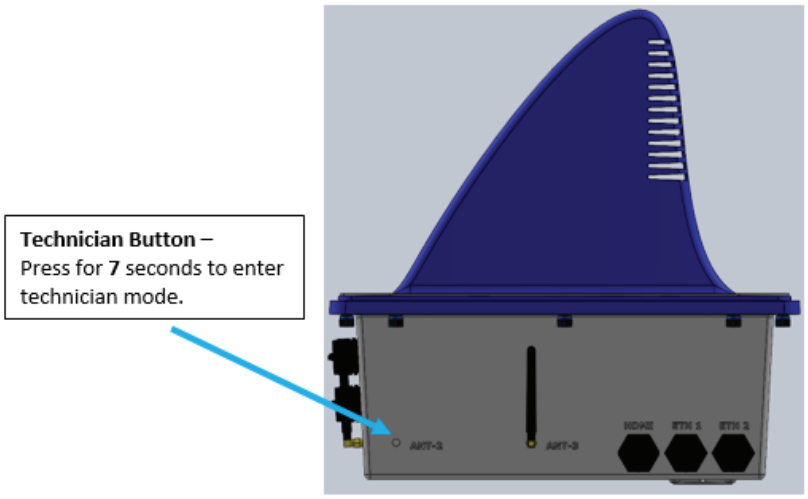
2. Connect the other end of the Ethernet cable to the ETH 1 port on the Smart IoT unit.

3. DO NOT CONNECT the customer BACnet to ETH 2 port until the IP address is configured.

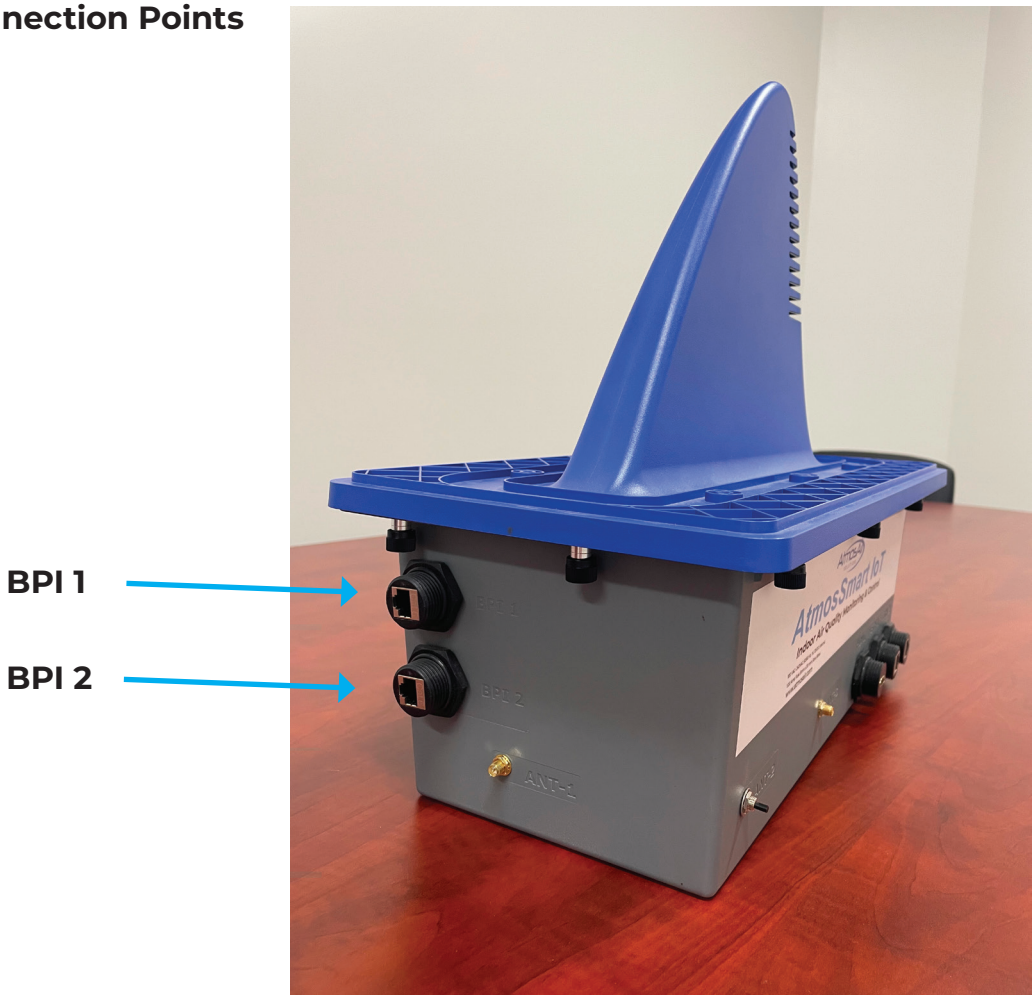
4. Turn on the Smart IoT unit for five minutes to complete the bootup.

5. Download the BACnet IP Configuration Tool via this link. In the User Guide, refer to the section titled "Using the BACnet IP Configuration Tool:", log in to the tool with the credentials, enter the Smart IoT serial number, and then press connect. (The tool will state that "ERROR: ASAR3 Connection Down". This is normal.)

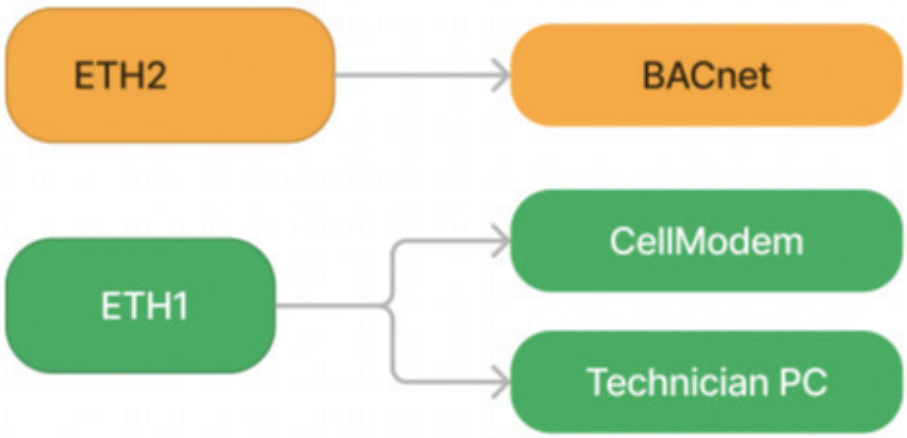
6. Press and hold the technician button on the Smart IoT unit for 7 seconds to enter technician mode. In a few moments, you should see the configuration tool connect to the Smart and you can continue following the procedures on programming the BacNet



5.4 AtmosSmart Connection Points



5.5 Connection Layout



06 ATMOSSMART/ATMOSCOMMS CONNECTIVITY & SEQUENCE

Note/Warning: All power must be off to both ends of the AtmosSmart System and AtmosAir BPI System. Once the two ends of the AtmosSmart/AtmosAir BPI system are installed/mounted, the installer should connect the following cables.

1. Connect the supplied power cord to the AtmosSmart IoT.
2. **If the AtmosSmart IoT is controlling BPI units, then the supplied RJ-45 cables need to be connected between the BPI ports on the AtmosSmart IoT and the RJ-45 port on the Comms Control or AtmosComms2.**
3. **If the monitoring service is being used connect the ETH1 port on the AtmosSmart IoT to the provided cellular modem or another internet connection.**
4. If BACNet connection is being used, then the BACNet connection should be connected to the ETH2 port on the AtmosSmart IoT.

6.1 Power-Up and Commissioning

Switch on main power toggle switch on the AtmosSmart IoT. The AtmosSmart IoT will automatically go into a 6-minute self-check and sensor warm up mode.

Follow BACNet configuration instructions for programming BACNet IP information.

Within 6 plus minutes the AtmosAir systems will start cycling and setting its parameters.
You will know the AtmosAir BPI system is responding to AtmosSmart IoT commands by the red LED on the 500 series or the green light on the Matterhorn, which will periodically cycle on or off according to demand.

The unit will self-start or re-start when the power is lost and regained.

07 CONTROL SEQUENCE

- Every 30 seconds, an average of readings is taken. As the AtmosSmart™ Ozone (O3) sensor is read. That value goes into a proprietary algorithm.
- Every 2 minutes the 'decision engine' makes a go/no-go evaluation based on AtmosAir set-points. If the value is below that limit the BPI unit will restart.
- Every 6 minutes, AtmosSmart™ performs an 'air exchange calculation'. Should the limit be reached within that time frame, the BPI unit(s) will go off again.

08 MAINTENANCE REQUIREMENTS

In addition to the routine maintenance that you perform, your AtmosAir system should be inspected regularly by a properly trained service technician.

Your annual system inspection should include:

- Routine inspection of the ionizing tubes and clearance around the intake screen along with replacement or cleaning as required
- Inspection and cleaning of the AtmosAir ionizing tubes
- Removal of obstructions of loose materials in the ducts
- Check all electrical wiring and connections
- Check for secure physical connections of individual parts in each unit
- Operational check of the ionization system to determine actual working condition. Necessary repair and/or adjustment should be performed at this time.
- The sensor array is designed to be maintenance-free for years and is calibrated at the factory.
- There are no user serviceable parts inside the sealed Sensor module.
- Sensors will need to be replaced & recalibrated generally after 2 calendar years.
- The only other maintenance required is assuring that the AtmosSmart™ sensor probe's impeller screen is not obstructed, and that the metering fan is running.
- AtmosDongle may be employed to provide BPI function during calibration of AtmosSmart.

09 FREQUENTLY ASKED QUESTIONS

Q1. Can AtmosAir Ionization units be retrofitted in the field with an AtmosComms2 module?

A1. No, only factory configured BPI unit(s) with comms unit installed is acceptable for this purpose.

Q2. What is the maximum quantity of ionizers that can be controlled by one AtmosSmart IoT?

A2. Up to eight (8) BPI units can be controlled/monitored by a single IoT unit.

Q3. What is recommended period for sensor re-calibration?

A3. The recommended period for sensor re-calibration is 24 months.

Q4. Can any router be used with AtmosSmart IoT or only the model furnished by the manufacturer?

A4. Any router can be used with the AtmosSmart IoT.

Q5. Can previous generation AtmosSmart units be replaced with the new IoT model?

A5. Yes, please follow new mounting instructions and commissioning process for best results.

Q6. Is the AtmosSmart IoT unit available in 240 VAC?

A6. Yes, the AtmosSmart IoT unit is available in 240 VAC.

10 PRODUCT WARRANTY

CLEAN AIR GROUP, INC. – PRODUCT WARRANTY

Clean Air Group, Inc. d/b/a AtmosAir Solutions ("Clean Air Group") warrants to the original purchaser of this product ("Customer") that should it prove to be defective by reason of improper materials or workmanship, for **twenty-four (24) months** from the date of installation, or **twenty-seven (27) months** from the date of Clean Air Group's original delivery of the product, whichever occurs first, Clean Air Group, at its sole option, shall repair or replace the product without charge to the Customer. Proof of malfunction and return of the non-working product must be presented by the Customer if submitting a warranty claim. This warranty is invalid if the factory-applied serial number has been altered or removed from the product. This warranty does not cover damage due to acts of God, misuse, abuse, negligence, or modification of or to any part of the product. This warranty does not cover damage due to improper installation, operation or maintenance, connection to improper voltage or electrical supply, or repair by anyone other than an authorized Clean Air Group service provider. To obtain warranty service, the Customer must: (1) provide proof of purchase in the form of a Bill of Sale or receipted invoice, with evidence that the product is within the warranty period; (2) request a Return Merchandise Authorization ("RMA") from Clean Air Group prior to shipping; and (3) ship the product with the RMA to Clean Air Group, freight prepaid, in either its original packaging or packaging affording an equal degree of protection. The product should be delivered to *AtmosAir, 600 Delran Parkway, Suite D, Delran, NJ 08075 (USA)*. All transportation charges and shipping expenses are the Customer's responsibility. A product returned for repair after the warranty period, or that shows damage outside of the warranty coverage described herein, shall be repaired for a reasonable charge as determined by Clean Air Group. The Customer will be advised of the cost of repair or replacement before Clean Air Group proceeds.

THE OBLIGATIONS OF CLEAN AIR GROUP HEREIN ARE EXPRESSLY GRANTED IN LIEU OF ALL WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND CLEAN AIR GROUP SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED OR STATUTORY WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE FOREGOING LIMITATION OR EXCLUSION MAY NOT APPLY TO THE CUSTOMER.

Clean Air Group SHALL NOT BE LIABLE TO THE CUSTOMER OR ANY OTHER PERSON OR THIRD PARTY FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO CONSEQUENTIAL, SPECIAL, INDIRECT, INCIDENTAL AND PUNITIVE DAMAGES AND/OR DAMAGES BY REASON OF INJURY TO ANY PERSON DUE TO ANY DEFECT OR MALFUNCTION OF THE PRODUCT OR ANY PART OR PARTS THEREOF OR FOR ANY OTHER REASON. This warranty gives the Customer specific legal rights and the Customer may have rights which vary from state to state. If the Customer's product is defective, the Customer should contact Clean Air Group or the dealer where the product was purchased.

Disclaimer:
The air purification technologies provided by Clean Air Group are intended to improve indoor air quality. They are not intended as a replacement for reasonable precautions aimed at preventing the transmission of contaminants, airborne or otherwise. All persons having access to the serviced premises should comply with applicable public health laws and guidelines issued by federal, state and local governments and health authorities such as the Centers for Disease Control and Prevention (CDC). Clean Air Group does not maintain that its products will protect people from all modes of transmission of bacteria, viruses or other contaminants.

Manufacturer,

Anthony M. Abate
Chief Technology Officer
Clean Air Group, Inc.

AtmosAir™ Solutions Offered By Clean Air Group, Inc.
418 Meadow Street, Suite 204 • Fairfield, CT 06824
PH: (203) 335-3700 • FX: (203) 335-1075
www.AtmosAir.com