

# MCI™ SynAIRgPure MINI

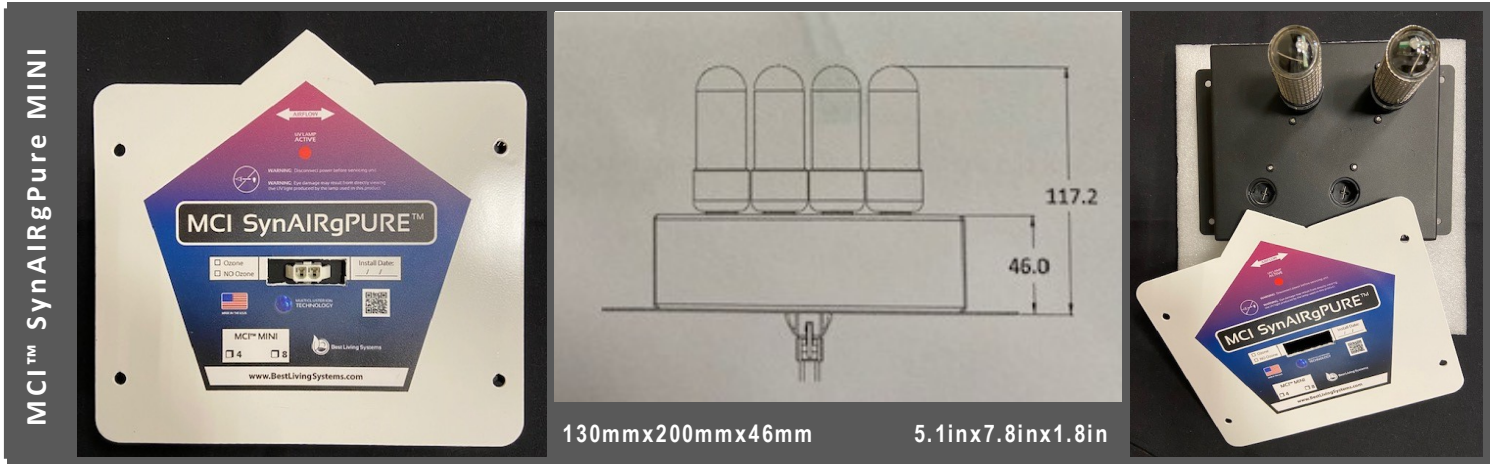
HVAC Probes

MCI Multi-Cluster Ionization™

Engineering  
Submittal  
Sheet



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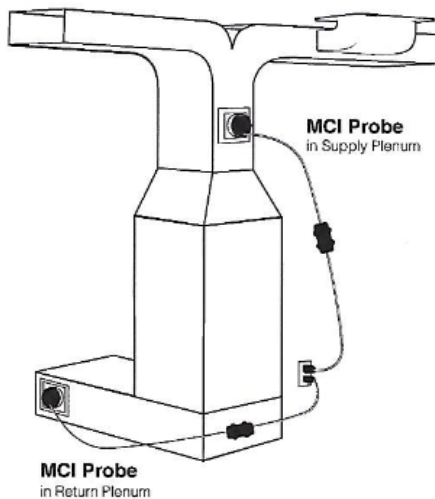


## ENGINEERING SPECIFICATIONS

The HVAC mounted MCI™ SynAIRgPure MINI is designed as a fully customizable probe to provide the power you need for any environment. The probe produces aggressive ionized oxidizers (without producing ozone) and multi-cluster ions that are then distributed throughout the indoor environment cleaning both the internal HVAC equipment, ductwork and, ultimately the air and surfaces indoors.

This trademarked MCI™ Multi-Cluster Ionization technology uses an enhanced output DBI (Dielectric Barrier Ionizer) and can be supercharged with the addition of multiple DBI (the patented dielectric barrier ionizer) cells to increase its cleaning power to reduce microbials, particulates, viruses, bacteria and VOCs. The power of these individual cells is the key to being successful in reducing contaminants.

## DUAL INSTALLATION



### WARRANTY

Cells are replaced every three years or when the blue LED signal lamp extinguishes. The warranty can be purchased to enhance the replace schedule of the ballast to a 5-year limited warranty. See [www.BLSWarranty.com](http://www.BLSWarranty.com)

### OZONE Negligible

MCI™ Multi-Cluster Ionization technology is so effective that it does not require ozone to reach efficacy. Ozone is produced during the ionizing process but not more that is produced by ceiling fans, copiers or other electrical equipment but is quickly dissipated through the HVAC system.



### INSTALLATION

A single probe is installed in the return plenum and an additional probe installed in the supply plenum sized to match the HVAC equipment coverage area. This dual installation provides cleaning power to the internal equipment and the downstream duct system reducing microbials and other contaminants. The probe in the return air plenum eliminates the need for germicidal lamps shining on the evaporator coils.

<http://www.SynAIRgPure.com>

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SIZING FORMULA

Sizing the MCI™ SynAIRgPure MINI is frequently based on cubic footage, however, the professional doing the sizing should not rely exclusively on this formula. Each indoor environment is different and even the same environment, when occupied by a different inhabitant(s) can contain a different level of contaminants, as suggested below. Please understand that this formula is utilized to address what might be considered “normal” living conditions but more technology might be needed based on the “Sizing Considerations” below.

**\*SIZING FORMULA**

**RETURN** Plenum: Suggest one MINI with two (2) DBI cells to help keep the “A” coil clean.

**SUPPLY** Plenum: Suggest one (1) DBI cell for every 400-800cfm or 2 tons of HVAC or 12,000 cubic feet of indoor coverage area. If duct work extends further than 60 feet from the cell, addition cells may be needed, an additional probe placed closer to the supply register(s) or supplemental stand alones in the environment.

\*SIZING CONSIDERATIONS

\*MCI™ SynAIRgPure MINI is effective against a wide range of contaminants in both the air and on surfaces. This technology does not replace the need for or replacement of any regularly scheduled cleaning maintenance. However, these factors should be considered when properly sizing the product to an indoor living environment:

- \* Number of Occupants
- \* Carpeting vs. Tile vs. Wood Flooring
- \* Air Flow and Ventilation
- \* Recent Renovations or Additions
- \* Air Infiltration Concerns
- \* Cleaning Schedule and Maintenance
- \* Existing Air Purification Technology
- \* Pets or Animals
- \* Leather vs. Fabric Furniture
- \* Placement of Supply Registers
- \* Use of the Building (Commercial/Residential)
- \* Nature of the Contents
- \* Turnover Traffic Level
- \* Type of Air Filtration
- \* Landscape Features
- \* Draperies
- \* Number and Placement of Return Registers
- \* Majority Age of Occupants
- \* Building Use by Hours
- \* Type of Ductwork
- \* Contaminants to Control

<input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8	<div style="background-color: #ccc; border: 1px solid black; padding: 10px; display: inline-block;"> <p style="margin: 0;"><b>MOLEX</b></p> </div>	<p style="text-align: right; margin: 0;">Install Date</p> <p style="text-align: right; margin: 0;">____/____/____</p>
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<b>PRODUCT SPECIFICATIONS</b>	Ballast Specification/Configuration	1—4 DBI cells	One-four DBI cells may operate on this ballast.
	Input Voltage	DC12V/110-120V opt.	Ballasts may be “daisy-changed” based on original voltage.
	Power Consumption	6 Watt / 500mA	Based on each DBI cell.
	*Recommended CF Area per DBI cell	8,000cf-12,000cf	Recommended but subject to onsite conditions.
	*Recommended CFM Airflow per DBI cell	400cfm—2000cfm	Based on central HVAC system.
	Minimum Ventilation (recommended)	141cfm	Based on central HVAC system utilizing fresh air makeup.
	Replacement Schedule	3 yr (unless LED out)	Recommended by not warrantied.