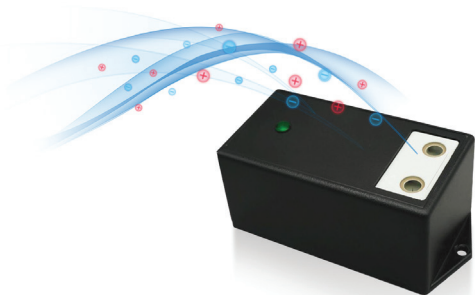




EAGLE X PRO

**EXP D5 SERIES  
D5i-M**



**USER'S MANUAL**

# Congratulations

Thank you for choosing Eagle X Pro to clean and improve your indoor air quality.

We are committed to product quality and safety. Our friendly customer service team is available for any questions or concerns, please do not hesitate to contact us!

Our goal is to provide the highest quality indoor air across the globe.  
We cannot achieve this goal without you, thank you for your purchase.

**Phone**

833-324-5397

**Email**

[office@eaglexpro.com](mailto:office@eaglexpro.com)

**Web**

[www.eaglexpro.com](http://www.eaglexpro.com)

# Manual Index

|                                 |         |
|---------------------------------|---------|
| Manual Index.....               | Page 3  |
| Product Introduction .....      | Page 4  |
| Technology Overview .....       | Page 5  |
| Testing Data .....              | Page 6  |
| Installation .....              | Page 7  |
| Operation/Troubleshooting ..... | Page 8  |
| Technical Specifications.....   | Page 9  |
| Device Dimensions .....         | Page 10 |
| Warranty .....                  | Page 11 |
| Contact .....                   | Page 12 |

# Introduction

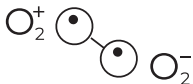
The Eagle X Pro (EXP) Mounted D5i-M is a patented air purification device based upon bipolar ionization (BPI) technology, specifically developed to bring the health and quality of nature's air to indoor environments. In natural habitats, solar and thermal energies create positive and negative Oxygen ions that clean and renew outdoor air by removing harmful pollutants, such as viruses, bacteria, fungi, and mold spores. The Mounted D5i-M generates these same positive and negative Oxygen ions - just like those found in nature - that purify and freshen indoor air by neutralizing the harmful pollutants.

The D5i-M is designed for installation in HVAC systems for commercial and residential applications. This compact, easy to install unit is suitable for use in hospitals, schools, restaurants, hotels, commercial buildings, residential spaces and more.

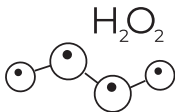
EXP technology was tested and found effective in neutralizing harmful pollutants such as viruses (SARS-COV-2, Influenza), bacteria, mold spores, fungi, odors, CO<sub>2</sub>, dust and smoke. While generating the highest density of Oxygen ions compared to any other technology on the market, our Mounted D5i-M technology maintains undetectable levels of ozone (<0.005 ppm) - well below federal requirements and regulation (**UL 867 certified**).

# Technology Overview

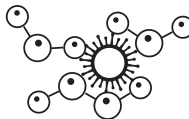
## Science Behind The Technology



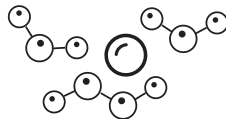
EXP Technology uses a corona discharge system to generate Oxygen ions  $O_2^+$  and  $O_2^-$  at a high density.



These  $O_2^+$  and  $O_2^-$  ions have high chemical activity and when reacting with water ( $H_2O$ ) molecules in the air, hydroperoxide  $H_2O_2$  is formed.



Once airborne, these hydroperoxides ( $H_2O_2$ ) then cluster around harmful pollutants.



A chemical reaction occurs and the hydroperoxides ( $H_2O_2$ ) break down the protein structure of the pollutants, rendering them harmless.

## Testing Data

| Substance | Substance Name               | Testing Organization            | Removal |
|-----------|------------------------------|---------------------------------|---------|
| Bacteria  | Escherichia Coli             | EMSL Analytical, USA            | 99%     |
|           | Escherichia Coli ATCC        | Istanbul University, Turkey     | 91%     |
|           | Staphylococcus Aureus        | EMSL Analytical, USA            | 91%     |
|           | Pseudomonas Aeruginosa       | Istanbul University, Turkey     | 99%     |
|           | Staphylococcus Aureus (MRSA) | EMSL Analytical, USA            | 99%     |
| Fungus    | Aspergillus Niger            | EMSL Analytical, USA            | 97%     |
|           | Dichobotrys Abundans         | Prof. Joe F. Boatman, USA       | 90%     |
|           | Penicillium                  | Prof. Joe F. Boatman, USA       | 95%     |
| Mold      | Cladosporium Cladosporioides | EMSL Analytical                 | 97%     |
| Spores    | Bacillus Subtilis Var Niger  | Istanbul University, Turkey     | 89%     |
| Viruses   | Influenza H1N1               | Kitasato Research Center, Japan | 99%     |
|           | Influenza H5N1               | Kitasato University, Thailand   | 99%     |
|           | SARS-COV-2                   | University of Patras, Greece    | 99%     |

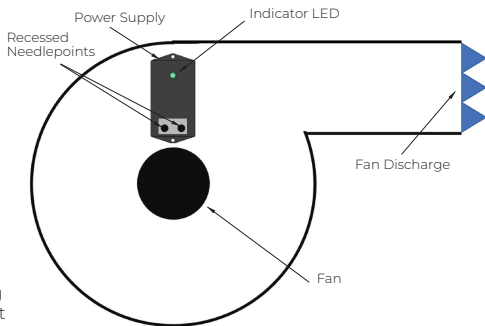
# Installation

**CAUTION:** Unit should only be installed by a licensed HVAC professional.

**CAUTION:** To reduce the risk of fire, this unit should not be installed downstream of a humidifier or exposed to other sources of moisture.

**CAUTION:** This product is suitable for mounting into duct of metallic construction only. Installation must be such that the structural integrity of the ducting is not compromised.

1. Do not connect to power before installation is complete.
2. Identify a mounting location to ensure the unit is **DOWNSTREAM** of any coils or filters and not at risk of moisture from any in-line humidifiers.
3. The included sheet metal screws or mounting magnets should be used to mount the D5i-M, inside the fan box or in ductwork ensuring that air flows over the two recessed needlepoint electrodes simultaneously.
4. For best results, place unit in a location where needlepoints will be exposed to maximum airflow. If magnetically mounting directly on the fan housing, place D5i-M Unit in the '12 o'clock position' above fan inlet.



## Operation

1. The D5i-M unit will be activated when power is supplied to the unit and the **green** LED light is illuminated, indicating the 'On' position.
2. The D5i-M unit is self-balancing and does not require any type of adjustment.
3. The benefit of the D5i-M unit is achieved only when the supply fan is running. Therefore, to achieve improved air quality, interlock the D5i-M unit to run when the supply fan is powered.

## Troubleshooting

IF THE UNIT IS NOT WORKING, CHECK IN THE FOLLOWING ORDER THAT:

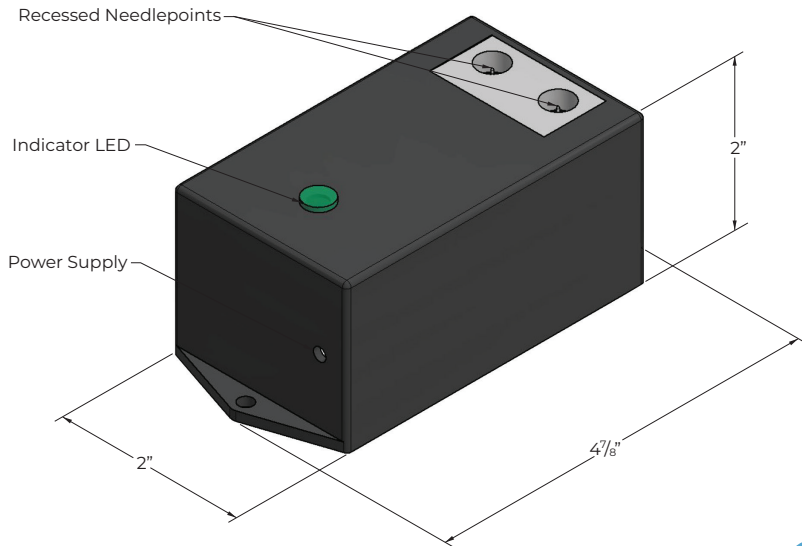
1. The D5i-M unit is connected to power, the supply fan is running and that the **green** LED indicator is illuminated.
2. Check the power input connections to the D5i-M unit. Verify all connections are correct and tight. Reconnect any loose wires as necessary.



# Technical Specifications

| Specs                     | D5i-M  |
|---------------------------|--|
| Ion output (Ions/Sec)     | 10 Billion (10 <sup>10</sup> ) ion/sec                 |
| Emitter Points            | Nickel Plated Needles                                  |
| Input Voltage             | 12V DC / 24V AC  |
| Output Voltage            | 0-8k V DC  |
| Power Consumption         | Average 30mA @ 12V DC                                  |
| Power Supply Requirements | Over Current Protection 500mA                          |
| Operation Environment     | Temp. (14°F) – (158°F), Hum. <70%                      |
| Storage Environment       | Temp. (14°F) – (158°F), Hum. <85%                      |
| Ozone                     | < 0.005 ppm  |
| CFM                       | 1,000 to 2,400   |
| Life Cycle                | 5-7 years (depending on environmental conditions)      |
| Power                     | Green LED On: Power "On"<br>Green LED Off: Power "Off" |
| Color                     | Black  |
| Dimensions                | 4.875"x2"x2' Inches (LxWxH)                            |
| Weight                    | 0.10 Lb  |
| Certifications            | UL, CSA, CE, IEC, FCC, RoHS 2 Compliant                |
| Ion Balance               | Inherently Self-Balancing System < ± 30V               |
| Discharge Time            | 1000V – 100V @ < 10 sec acc. Spec                      |

# Device Dimensions



# Warranty

## **THE D5 SERIES IS COVERED UP TO 12 MONTHS (1 YEAR) FROM DATE OF PURCHASE.**

### **Warranty Coverage**

The warranty is against any defects in materials and/or workmanship and/or function of the product for the period of 12 months of the purchase date ("Warranty Period"). Within the Warranty Period, in case of a justified claim by client, EXP will, at its own discretion, repair or replace the product or refund the client's purchase price within 60 business days of client is shipping such products.

If shipment to an authorized service facility is required, shipping instructions will be provided by EXP. Do not ship any product without shipping authorization. All shipping charges must be prepaid by the customer.

### **Warranty Limitations:**

Warranty does not apply in case product: (1) Has been involved in an accident or subjected to misuse, improper maintenance or negligence or use which was not according to the instructions given by the manufacturer; (2) Has been altered or repaired in any way that has, in EXP's judgment, adversely affected its performance or reliability; (3) Has been used in an application or for a purpose for which the product was not designed or under stresses or conditions exceeding those specified for the product; (4) Has been damaged after leaving EXP's facility; (5) Has been serviced by unauthorized personnel or if parts in the system were found or exchanged, which were not original parts from EXP; (6) If maintenance was not performed or was not in accordance with the maintenance instructions specified by EXP; (7) In case of fire, lightning or other disasters; (8) If the system has been used in improper conditions;

This warranty is extended only to the original purchaser of this product. EXP will not be held responsible for any consequential damage caused by malfunction of the system or misprint and typographical errors. Users assume sole responsibility for all damage or injury, including death, which may arise during the use of these products in any manner or under any conditions.

EXP disclaims all other liabilities and obligations, including non-contractual liability for personal injury, death, direct or indirect property damage or consequential damages based upon its negligence, strict liability, incidents, all other effects from malfunction of the system or any other ground. Regardless of whether liability is asserted on the basis of breach of warranty, negligence, strict liability, breach of contract or otherwise, EXP shall not be responsible for special, incidental, consequential or punitive damages, including loss of property, loss of profits or revenues, downtime costs and the cost of substitute equipment.



EAGLE X PRO

**EXP D5 SERIES  
D5i-M**

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