PATHOGENF©CUS

| PATHOGENFOOLS ADB7000-2AF | |
|---------------------------|--|
| | |

| Project: | |
|-----------|--|
| Location: | |
| Cat. #: | |
| Туре: | |
| Quantity: | |
| , | |

Powered by

Biotechnology

ADB 7000-AF | Air Disinfection Biosecurity Unit

Features:

- 24/7 365 continuous and proactive air and surface disinfection
- Integrated Air Flow sensor ensures unit operates only when HVAC airflow is sensed
- Provides a comprehensive disinfection solution for use in public spaces to achieve a new air quality safety threshold by neutralizing up to 99.99% of viruses (influenza, norovirus, etc.) within minutes and bacteria (listeria, salmonella, E. coli, campylobacter, etc.) within 2 hours.
- Silent operation
- Low power consumption
- No toxic chemicals or irradiation
- Used for over 20 years and is installed in thousands of locations, worldwide

Certifications:

- TÜV SÜD: UL 60335-1 Safety of
- Household and Similar Electrical Appliances - All compliance requirements met with ADB 7000 series with DRV 512 driver and
- WCS wall controller
- Meets UL867 standard
 Meets UL2998 standard for "Zero Ozone" Emissions (≤ 0.005 ppm)
- Meets California Air Resource Board ozone emissions limit - CARB certified
- Certified Halal by Islamic Services of America

Construction:

- Cabinet constructed of powder coated aluminum
- Output: 3" PVC reaction chamber on 1AF model. 4" PVC reaction chamber on all other models with 3" PVC reducers included.
- 6' Cord with 120V plug



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Details:

- ADB systems activate ambient air using proprietary Modulated Dielectric Barrier Discharge that generates a safe, chemical -free non-thermal (cold) plasma. Highly reactive molecules from the plasma are distributed throughout the space via the existing HVAC system to neutralize microbes (viruses, bacteria & mold) and VOCs in the air and on surfaces. This sanitizing cold plasma treatment is continuous, controlled, and consistent.
- Each system is process engineered for the space being treated to ensure continuous and proper treatment level throughout the space
- Unit is affixed to the existing HVAC duct on supply side
- For the HVAC system, a filter with a minimum MERV rating of 11 is required

Applications:

Suitable for common area applications - indoor/public spaces

- Government Buildings
- Hospitality
- Healthcare
- Fitness/Locker Rooms
- Food/Meat Processing
- K12/Higher Education
- Offices
- Meeting Room/Break Rooms
- Industrial/Commercial
- Restaurants
- Retail
- Casinos
- Horticulture





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Ordering Guide:

| Series | - | Capacity | Driver | Airflow Sensor | - | Duty Cycle |
|----------|---|--|--|--|---|---------------------------------------|
| ADB 7000 | - | | | | - | |
| ADB 7000 | | 1AF 1 Power Generator 2AF 2 Power Generators | ID Internal Driver ED6C External Driver w/ 6' Cables | Blank None ⁽¹⁾ MAF Mass Airflow Sensor ⁽²⁾ | | 100 100% 90 90% 80 80% |
| | | 4AF 4 Power Generators 8AF 8 Power Generators | ED6C External Driver w/ 6' Cables | | | 70 70% 60 60% 40 40% |

Notes:

⁽¹⁾ ADB unit must be connected to HVAC fan to ensure fan turns on while ADB unit is in operation. Failure to do so may damage ADB reaction chamber, reducing treatment levels.

 $^{(2)}$ HVAC fan should run 24/7 for optimal performance. At a minimum, the fan should run continuously during operational hours.

Accessories: WCS Wirele

| S | Wireless Control System with |
|---|----------------------------------|
| | touch screen interface and |
| | networking capabilities. (1) WCS |
| | can control up to (20) ADB 7000 |
| | units, depending on range |
| | |

WGE Weather Guard Enclosure for exterior mounting of ADB 7000 unit

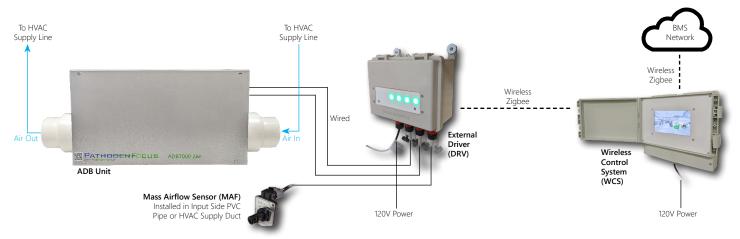




Specifications:

| Model | Operation Frequency | Amps | Max Power | Voltage | Weight | Length | Width | Height | Pipe Size |
|--------------|------------------------|--------|--------------|---------|---------|--------|-------|--------|--------------|
| ADB 7000-1AF | 50/60 Hz | 0.125A | 15W | 120V | 20 lbs. | 19" | 5.6" | 9" | 3" PVC |
| ADB 7000-2AF | 50/60 Hz | 0.16A | 19W | 120V | 27 lbs. | 22.5″ | 7" | 11" | 3" PVC |
| ADB 7000-4AF | 50/60 Hz | 0.23A | 28W | 120V | 40 lbs. | 22.5″ | 7" | 16" | 3" PVC |
| ADB 7000-8AF | 50/60 Hz | 0.46A | 55W | 120V | 52 lbs. | 22.5" | 7" | 24.5" | 3" PVC |

ADB System Diagram:





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Performance Capacity:

Commercial Applications / Biosecurity:

| Model | Duty Cycle | HVAC CFM |
|--------------|------------|------------------|
| ADB 7000-8AF | 100% | 14,400 to 16,000 |
| | 90% | 12,800 to 14,400 |
| | 80% | 11,200 to 12,800 |
| | 70% | 9,600 to 11,200 |
| | 60% | 6,400 to 9,600 |
| | 40% | 4,800 to 6,400 |
| ADB 7000-4AF | 100% | 8,550 to 9,500 |
| | 90% | 7,600 to 8,550 |
| | 80% | 6,650 to 7,600 |
| | 70% | 5,700 to 6,650 |
| | 60% | 3,800 to 5,700 |
| | 40% | 2,850 to 3,800 |
| ADB 7000-2AF | 100% | 6,480 to 7,200 |
| | 90% | 5,760 to 6,480 |
| | 80% | 5,040 to 5,760 |
| | 70% | 4,320 to 5,040 |
| | 60% | 2,880 to 4,320 |
| | 40% | 2,160 to 2,880 |
| ADB 7000-1AF | 100% | 2,340 to 2,600 |
| | 90% | 2,080 to 2,340 |
| | 80% | 1,820 to 2,080 |
| | 70% | 1,560 to 1,820 |
| | 60% | 1,040 to 1,560 |
| | 40% | 780 to 1,040 |

Industrial Processes:

| Model | Duty Cycle | Volume (ft ³) |
|--------------|------------|---------------------------|
| ADB 7000-8AF | 100% | 45,000 to 50,000 |
| | 90% | 40,000 to 45,000 |
| | 80% | 35,000 to 40,000 |
| | 70% | 30,000 to 35,000 |
| | 60% | 20,000 to 30,000 |
| | 40% | 15,000 to 20,000 |
| ADB 7000-4AF | 100% | 22,050 to 24,500 |
| | 90% | 19,600 to 22,050 |
| | 80% | 17,150 to 19,600 |
| | 70% | 14,700 to 17,150 |
| | 60% | 9,800 to 14,700 |
| | 40% | 7,350 to 9,800 |
| ADB 7000-2AF | 100% | 11,070 to 12,300 |
| | 90% | 9,840 to 11,070 |
| | 80% | 8,610 to 9,840 |
| | 70% | 7,380 to 8,610 |
| | 60% | 4,920 to 7,380 |
| | 40% | 3,690 to 4,920 |
| ADB 7000-1AF | 100% | 5,310 to 5,900 |
| | 90% | 4,720 to 5,310 |
| | 80% | 4,130 to 4,720 |
| | 70% | 3,540 to 4,130 |
| | 60% | 2,360 to 3,540 |
| | 40% | 1,770 to 2,360 |

Performance capacity is just a quideline. ADB system design is application specific and depends on many factors, including existing bio load of the environment as well as what you are trying to achieve (improved air quality, odor elimination, food safety, increased shelf life of perishables, increased crop yield, etc.). Specific industrial processes (i.e. food processing or food safety, indoor farming) and/ or certain air/surface quality issues may require up to 5 times the treatment concentration to achieve desired results. Please contact your PathogenFocus representative for proper ADB system design.

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User Guide

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Guidelines For User Safety And Equipment

Protection symbols are used to highlight information relating to the user's personal safety and protection of the equipment throughout this guide. Do not operate the equipment without prior consulting with a representative.

When any of the following symbols appear, the associated information must be read carefully and understood fully. Operate the system through its controller.

Warnings



WARNING

The identified danger can cause physical and property damage



DANGER

The identified danger can cause severe physical and property damage. This symbol relates specifically to electrical danger.

Under no circumstances will the manufacturer be liable or responsible for any consequential damage that may arise as a result of the installation or use of this equipment. All examples and diagrams shown in this guide are intended to aid understanding. They do not guarantee operation. The manufacturer accepts no responsibility for the actual use of this equipment based on these examples.

Due to the great variety of possible applications for this equipment, the user must assess the suitability of this product for specific applications.

Equipment described herein is recommended based on the room temperature, type of process, the air circulation of the room, and overall size of the room. The user of this product further acknowledges that in order for the equipment to achieve optimal results, there must be sufficient air circulation, a somewhat enclosed treated area, and when applicable, proper ventilation in the packaging of stored/palletized product(s).



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