



Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 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 the unit operates only when the 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

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

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**

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 California Air Resource Board ozone emissions limit - CARB certified

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



Ordering Guide:

Series	-	Capacity	Driver	Airflow Sensor
ADB 7000	-			
ADB 7000		1AF 1 Power Generator	ID Internal Driver	Blank None ⁽¹⁾
		2AF 2 Power Generators	ED6C External Driver w/ 6' Cables	MAF Mass Airflow Sensor
		4AF 4 Power Generators	ED6C External Driver w/ 6' Cables	
		8AF 8 Power Generators		

Notes:

⁽¹⁾ ADB unit must be connected to HVAC fan to ensure fan turns on while ADB unit is in operation.

Accessories:

WCS 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

Performance Capacity:

Commercial Applications:

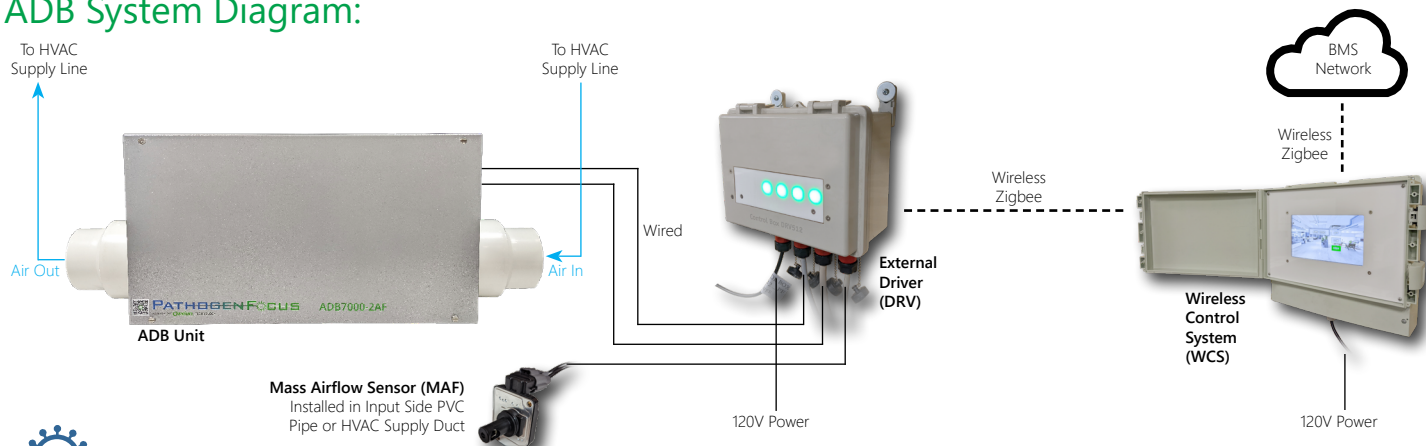
Model	HVAC CFM
ADB 7000-1AF	400 - 2,600 CFM
ADB 7000-2AF	2,600 - 7,200 CFM
ADB 7000-4AF	7,200 - 9,500 CFM
ADB 7000-8AF	9,500 - 16,000 CFM

Industrial Applications:

Model	Air Volume
ADB 7000-1AF	up to 5,900 ft ³
ADB 7000-2AF	up to 12,300 ft ³
ADB 7000-4AF	up to 24,500 ft ³
ADB 7000-8AF	up to 50,000 ft ³

Performance capacity is just a guideline. 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.

ADB System Diagram:



User Guide

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This information appearing in this document is for general purposes only. The manufacturer makes no warranty of any kind with regard to the information appearing in this document including, but not limited to, implied warranties of merchantability and/or fitness for particular use or purpose. The manufacturer assumes no responsibility for the results, direct and/or indirect, of any misuse of the information appearing in this document nor for any use of the manufacturer product offering referred to herein in any manner deviating from the recommendations made in this document. The manufacturer assumes no responsibility for the use of any parts, components, or other ancillary appliances including circuitry other than as recommended hereunder or other than that embodied in the product.

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).

