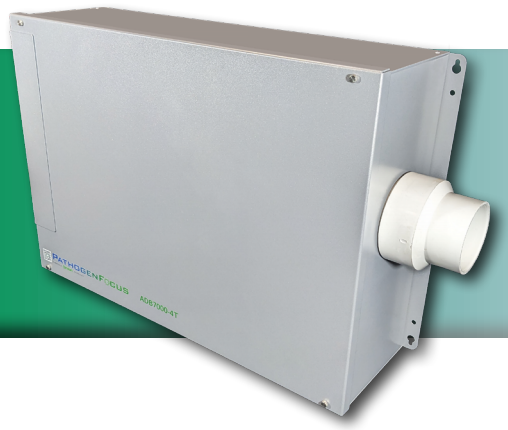
PATHOGENFOCUS



Project: _____

Location: _____

Cat. #: _____

Type: _____

Quantity: _____

Powered by Oxy Ion Biotechnology

ADB 7000-T | Air Disinfection Biosecurity Unit

Features:

- 24/7 365 continuous and proactive air and surface disinfection
- Quiet operation
- Low power consumption
- No toxic chemicals or irradiation
- 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
- Used for over 20 years and is installed in thousands of locations, worldwide

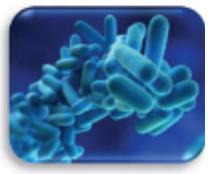
Applications:

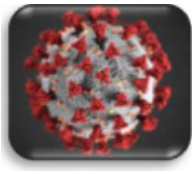
Suitable for common area applications - indoor/public spaces

- 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 integrated turbine 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 & proper treatment levels throughout the space
- Integrated turbine draws air into the unit and distributes treatment into the space. Additional equipment may be necessary to evenly distribute treatment throughout the entire space - ie. fans, or piping/ductwork.
- MERV 11 filter helps keep reaction chamber clean and working properly. Filter must be changed every 90 days at minimum
- ADB units can be paired with a WCS wireless controller for additional control and enhanced diagnostics. One WCS can control up to (20) ADB units





Construction:

- Cabinet constructed of powder coated aluminum
- 3" PVC outlet
- 6' Cord with 120V plug
- MERV 11 filter

www.pathogenfocus.com
880 Facet Rd. | Henderson, NC 27537
252-430-6970

Ordering Guide:

Series	-	Capacity	Driver	-	Duty Cycle
ADB 7000	-			-	
ADB 7000		1T 1 Power Generator 2T 2 Power Generators	ID Internal Driver		100 100% 90 90% 83 83% 60 60% 40 40%
		4T 4 Power Generators	ID Internal Driver ED6C External Driver w/ 6' Cables [1]		

Notes:

[1] External driver option not available on 1T and 2T models.

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

Specifications:

Model	Operation Frequency	Amps	Max Power	Voltage	Weight	Length	Width	Height	Pipe Size
ADB 7000-1T	50/60 Hz	0.28A	33W	120V	21.5 lbs.	20.0"	8.52"	12.71"	3" PVC
ADB 7000-2T	50/60 Hz	0.32A	38W	120V	21.5 lbs.	20.0"	8.52"	12.71"	3" PVC
ADB 7000-4T	50/60 Hz	0.38A	45W	120V	42.4 lbs.	30.0"	8.5"	19.7"	3" PVC

Performance Capacity:

Commercial Applications / Biosecurity:

Model	Duty Cycle	Volume (ft^3)
ADB 7000-4T	100%	67,500 to 75,000
	90%	62,250 to 67,500
	83%	45,000 to 62,250
	60%	30,000 to 45,000
	40%	22,500 to 30,000
ADB 7000-2T	100%	33,750 to 37,500
	90%	31,125 to 33,750
	83%	22,500 to 31,125
	60%	15,000 to 22,500
	40%	11,250 to 15,000
ADB 7000-1T	100%	16,875 to 18,750
	90%	15,563 to 16,875
	83%	11,250 to 15,563
	60%	7,500 to 11,250
	40%	5,625 to 7,500

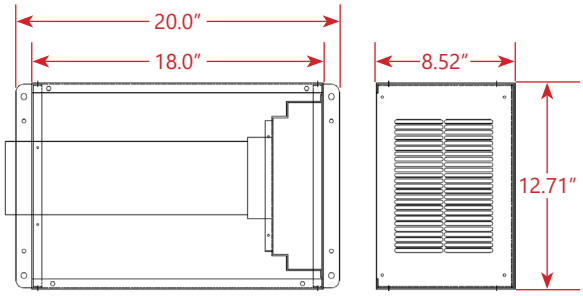
Industrial Processes:

Model	Duty Cycle	Volume (ft^3)
ADB 7000-4T	100%	22,500 to 25,000
	90%	20,750 to 22,500
	83%	15,000 to 20,750
	60%	10,000 to 15,000
	40%	7,500 to 10,000
ADB 7000-2T	100%	11,250 to 12,500
	90%	10,375 to 11,250
	83%	7,500 to 10,375
	60%	5,000 to 7,500
	40%	3,750 to 5,000
ADB 7000-1T	100%	5,625 to 6,250
	90%	5,188 to 5,625
	83%	3,750 to 5,188
	60%	2,500 to 3,750
	40%	1,875 to 2,500

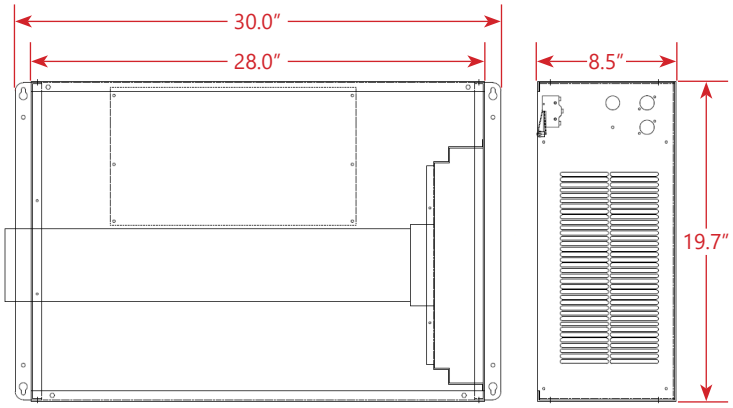
Performance capacity is just a guideline. ADB system design is application specific and depends on many factors, including existing bio load of the environment as well as what you are trying to achieve (improved air quality, odor elimination, food safety, increased shelf life of perishables, increased 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.***

Schematic:

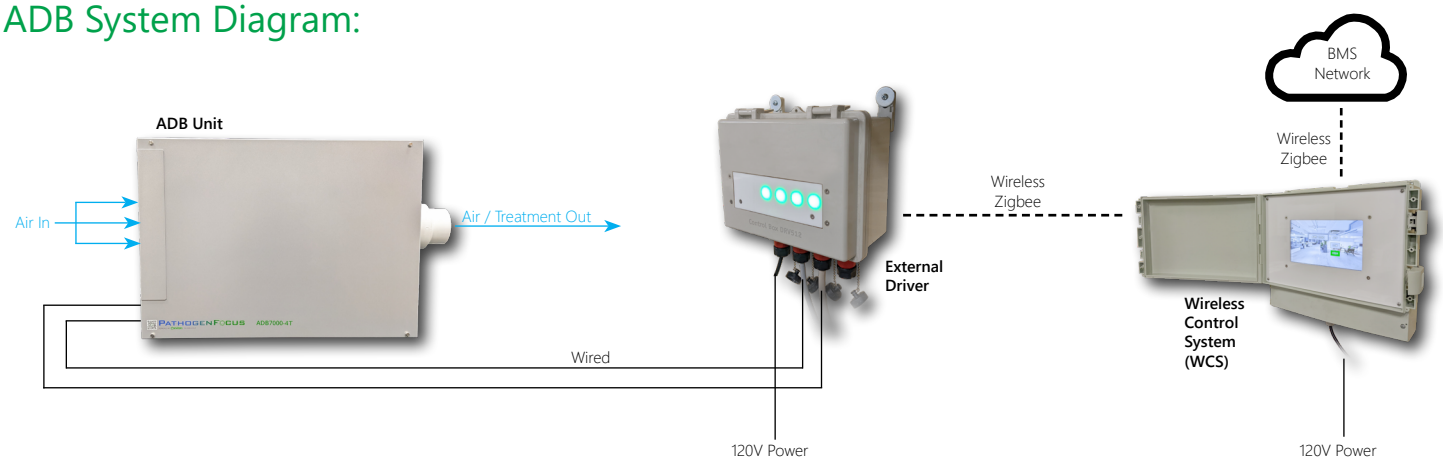
ADB 7000-1T & 2T:



ADB 7000-4T:



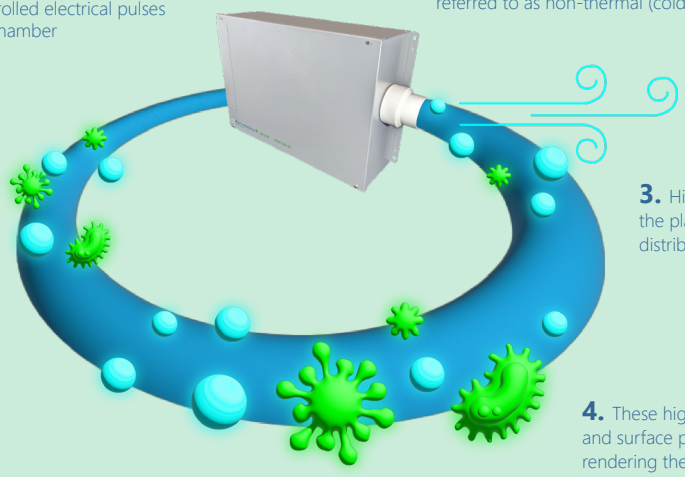
ADB System Diagram:



The Process:

1. Ambient air is captured and exposed to high frequency controlled electrical pulses within the reaction chamber

2. This creates a burst of particles, referred to as non-thermal (cold) plasma



3. Highly reactive molecules from the plasma are blown out of the unit, distributing them throughout the air

4. These highly reactive molecules contact the airborne and surface pathogens, destroying their DNA/RNA and rendering them inactive, reducing the microbial burden

User Guide

No part of this document may be used for any purpose other than the purposes specifically indicated herein nor may it be reproduced or transmitted in any form or by any means, electronic, or mechanical, including photocopying and/or recording for any purpose without permission from the manufacturer.

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 responsibilty 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).