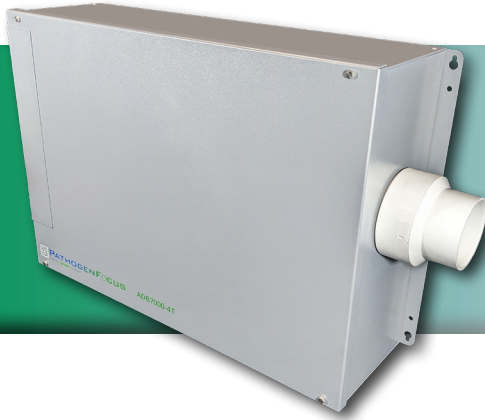




Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____

Powered by  Biotechnology

ADB 7000- T | Cold Plasma Generator with Turbine

Overview:

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 cold plasma treatment is continuous, controlled, and consistent.

- Each system is process engineered for the space being treated to ensure continuous and proper treatment levels throughout the space.
- An 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. supplemental fans, diffusion piping, or existing HVAC supply air.
- MERV 11 filter helps keep reaction chamber clean and working properly. **Filter must be changed every 90 days at minimum**

Applications:

Suitable for common area applications - indoor public spaces (commercial/industrial)

- Food/Meat Processing
- Hatcheries
- Horticulture
- Healthcare
- Hospitality
- Casinos
- Restaurants
- Fitness/Locker Rooms
- K12/Higher Education
- Government Buildings
- Offices

Construction:

- Cabinet constructed of powder coated aluminum
- 3" PVC outlet
- 6' Cord with 120V plug standard. Hardwired & 230V options available.
- MERV 11 filter

Features:

- 24/7 365 continuous and proactive air and surface protection against viruses, bacteria, mold, and other contaminants.
- Provides a comprehensive air quality solution for public spaces, helping establish a new safety benchmark by neutralizing up to 99.99% of viruses (including influenza and norovirus) within minutes and reducing bacteria (including Listeria, Salmonella, E. coli, and Campylobacter) within two hours.
- Quiet operation
- Low power consumption
- No toxic chemicals or irradiation
- Multiple control options available, including BMS integration
- Used for over 20 years and is installed in thousands of locations, worldwide

Certifications:

- Certified Halal by Islamic Services of America



Ordering Guide:

Series	Capacity (# Power Gen)	Type	Driver	Voltage / Plug	Controls ⁽¹⁾	Output
ADB 7000	-	T				-
ADB 7000	1 1 Power Generator	T Integrated Turbine	ID Internal Driver	Blank 120V / 6' Cord, Type B Plug	Blank None	100 100%
	2 2 Power Generators			NP 120V / 6' Cord, No Plug	X 2.4 GHz XBee Wireless (for use with WCSv2 controller)	90 90%
	4 4 Power Generators			230V 'p' 230V / 6' Cord, 'p' = specify plug type	XLR 900 MHz Long Range XBee Wireless (for use with WCSv2 LR controller)	80 80%
	4 4 Power Generators	T Integrated Turbine	ED6C External Driver w/ 6' Cables	230V NP 120V / 6' Cord, No Plug	M Modbus RTU	70 70%
	8 8 Power Generators				MX 2.4 GHz XBee Wireless (for use with WMS & WMSG controllers)	60 60%
					MXLR 900 MHz Long Range XBee Wireless (for use with WMS LR & WMSG LR controllers)	40 40%

Plug Types ('p'):

- D** Type D, 230V
- E** Type E, 230V
- F** Type F, 230V
- G** Type G, 230V
- H** Type H, 230V
- I** Type I, 230V
- J** Type J, 230V
- K** Type K, 230V
- L** Type L, 230V

Notes

⁽¹⁾ See 'ADB Controls Guide' for control system specifications and list of compatible controllers and accessories (sold separately).

Specifications:

Model	Operation Frequency	Amps	Max Power	Voltage	Weight	Length	Width	Height	Pipe Size
ADB 7000-1 T ID	50/60 Hz	0.28A	33W	120V	23 lbs.	22.88"	8.52"	12.71"	3" PVC
ADB 7000-2 T ID	50/60 Hz	0.32A	38W	120V	25 lbs.	22.88"	8.52"	12.71"	3" PVC
ADB 7000-4 T ID	50/60 Hz	0.58A	70W	120V	50 lbs.	33.63"	10.02"	19.71"	3" PVC
ADB 7000-4 T ED6C	50/60 Hz	0.58A	70W	120V	44 lbs.	33.63"	10.02"	19.71"	3" PVC
ADB 7000-8 T ED6C	50/60 Hz	1.46A	175W	120V	75 lbs.	33.88"	10.02"	31.71"	3" PVC
ADB 7000-1 T ID 230V	50/60 Hz	0.16A	37W	230V	24.5 lbs.	22.88"	8.52"	12.71"	3" PVC
ADB 7000-2 T ID 230V	50/60 Hz	0.17A	38W	230V	25 lbs.	22.88"	8.52"	12.71"	3" PVC
ADB 7000-4 T ID 230V	50/60 Hz	0.30A	70W	230V	50 lbs.	33.63"	10.02"	19.71"	3" PVC
ADB 7000-4 T ED6C 230V	50/60 Hz	0.30A	70W	230V	44 lbs.	33.63"	10.02"	19.71"	3" PVC
ADB 7000-8 T ED6C 230V	50/60 Hz	0.76A	175W	230V	75 lbs.	33.88"	10.02"	31.71"	3" PVC

External Driver on ADB 7000-x T ED6C units weighs an additional 6 lbs, not included in the weights above.



Performance Capacity:

Commercial Applications / Biosecurity:

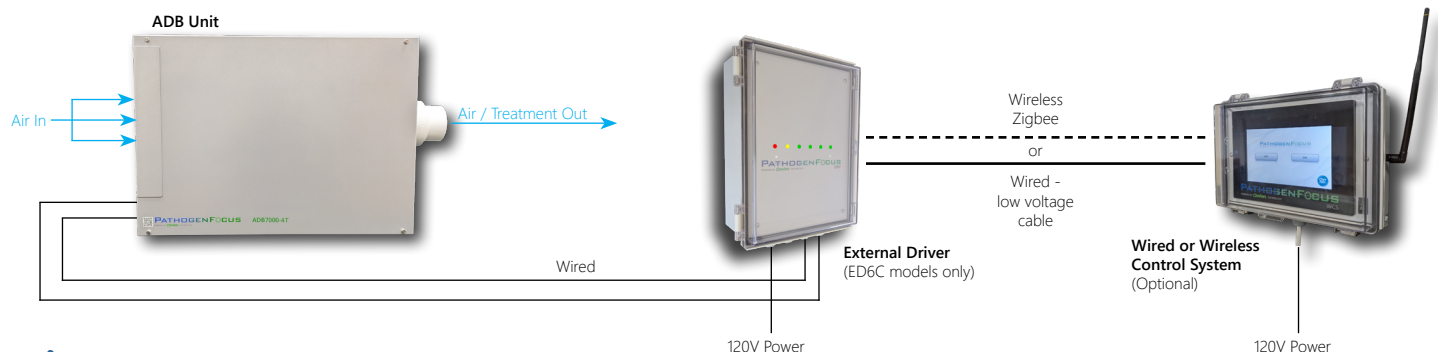
Model	Output	Volume (ft ³)
ADB 7000-8 T	100%	139,500 to 155,000
	90%	124,000 to 139,500
	80%	108,500 to 124,000
	70%	93,000 to 108,500
	60%	62,000 to 93,000
	40%	46,500 to 62,000
ADB 7000-4 T	100%	68,850 to 76,500
	90%	61,200 to 68,850
	80%	53,550 to 61,200
	70%	45,900 to 53,550
	60%	30,600 to 45,900
	40%	22,950 to 30,600
ADB 7000-2 T	100%	34,425 to 38,250
	90%	30,600 to 34,425
	80%	26,775 to 30,600
	70%	22,950 to 26,775
	60%	15,300 to 22,950
	40%	11,475 to 15,300
ADB 7000-1 T	100%	16,425 to 18,250
	90%	14,600 to 16,425
	80%	12,775 to 14,600
	70%	10,950 to 12,775
	60%	7,300 to 10,950
	40%	5,475 to 7,300

Industrial Processes:

Model	Output	Volume (ft ³)
ADB 7000-8 T	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 7000-4 T	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 7000-2 T	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 7000-1 T	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

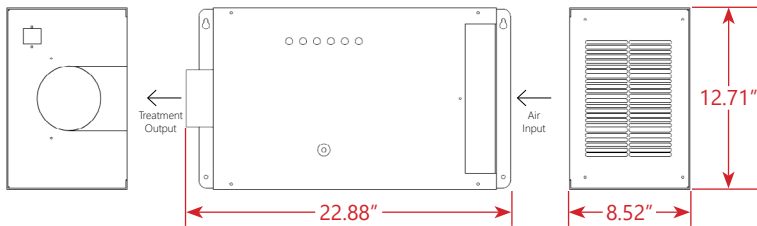
Performance capacity is just a guideline. ADB system design is application specific and depends on many factors, including existing bio load of the environment as well as what you are trying to achieve (improved air quality, odor elimination, food safety, increased shelf life of perishables, increased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

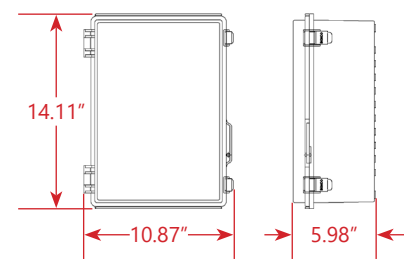


Schematic:

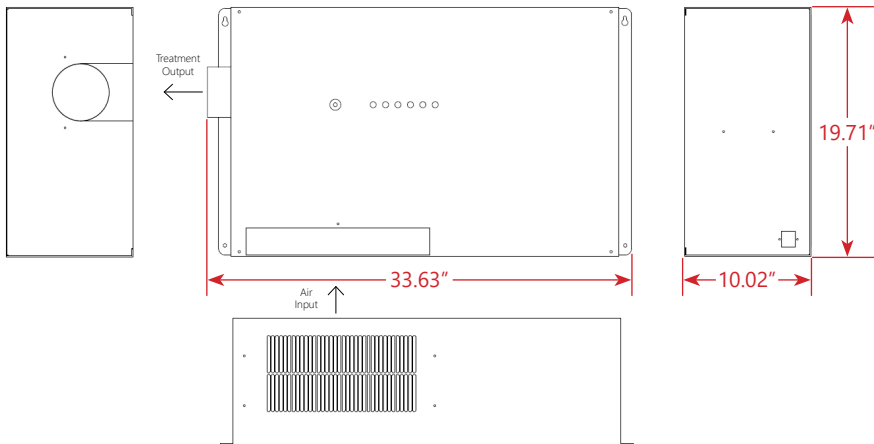
ADB 7000-1/2 T:



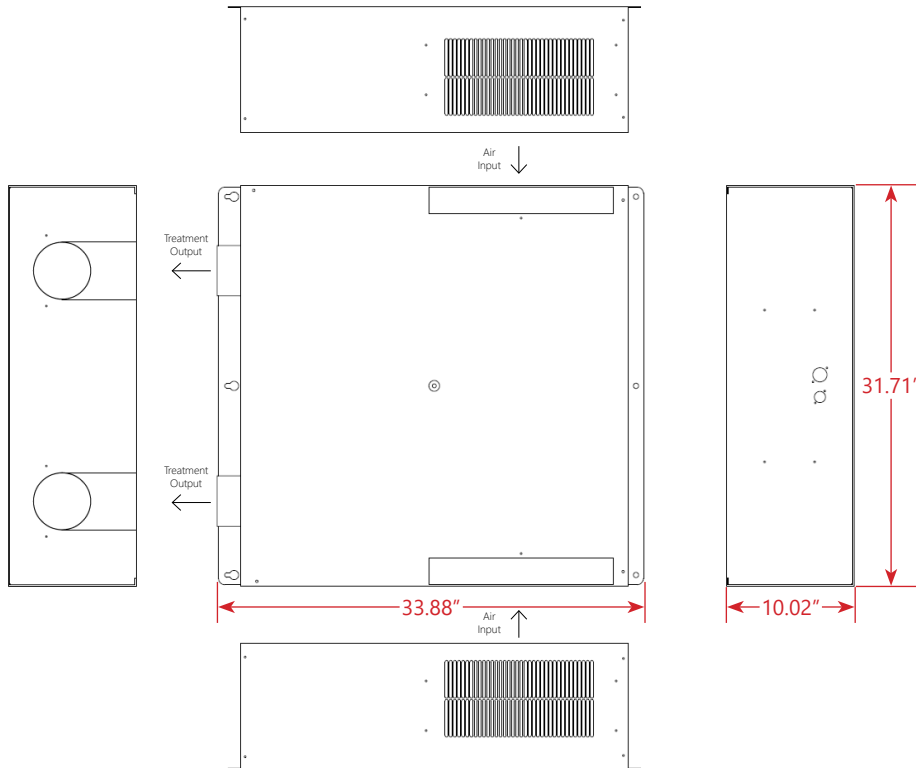
ED6C (External Driver):



ADB 7000-4 T:



ADB 7000-8 T:



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).

