VORTEX 2000



REV A.4

PRODUCT DESCRIPTION

AIRBOX Vortex 2000 is a versatile, multi-use, industrial-grade air cleaning system which uses a 4-Stage Filtration System, including Chem Shield Advanced Molecular Adsorbent v-bank filter for heavier concentrations of unwanted gases, to provide Equivalent Clean Airflow (V_{ACS}) for indoor install types. The Vortex 2000 can be integrated into an existing ventilation system or as an independent air cleaning system. The Vortex 2000 utilizes a multi-stage filtration configuration designed to target and reduce high levels of airborne particulates/aerosols and molecular contaminants such as VOCs (volatile organic compounds) in commercial and industrial environments. The AIRBOX Vortex 2000 is equipped with the Smart Fleet Management® platform, which allows AIRBOX units to run on differing schedules and keeps track of actual filter life and other maintenance needs, such as the direct drive ECM Fans used for maximized efficiency. In addition, the VORTEX 2000 qualifies the space for ASHRAE Standard 62.1 IAQP (Indoor Air Quality Procedure) by cleaning the air with recirculation, which could allow for a reduction in the amount of outdoor air required and HVAC energy if all specified Design Compounds (DCs) are maintained below their design limits specified in ASHRAE Standard 62.1.

COMPLIANCE AND PERFORMANCE SPECIFICATIONS

ASHRAE 241-2023	Compliant*	
UL Listed	Listing in Progress	
IEST-RP-CC007	Certified 99.99% @ 0.3 microns HEPA Filter	
US DOE-STD-		
3020-2015		
UL900		
Bioaerosol Testing	Available upon Request	
Efficacy Testing	Available upon Request	
*Compliance Testing and Certification in progress		

TECHNICAL SPECIFICATIONS

Unit Size	26"H x 24"W x 50.5"L*
Weight	300 lbs*
Maximum Nominal Air Flow Rate	2,300 CFM
Controls	Standard manual control and Smart Fleet Management System (IOT) allowing for remote adjustment.
Enclosure Material and Finish	Aircraft Grade Aluminum Alloy Outside Skin with Structural Steel Frame
	Powder Coat Finish
Additional Features	Differential Pressure and TVOC sensors for concentration and filter life monitoring.
Warranty	Transferable Limited Lifetime Warranty. Lifetime Warranty on material and workmanship. 5 Year warranty on fan and motor package inclusive of electrical.

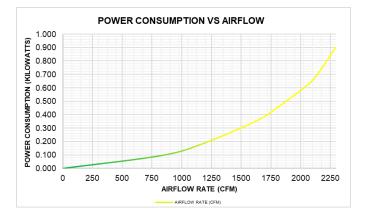
ELECTRICAL SPECIFICATIONS

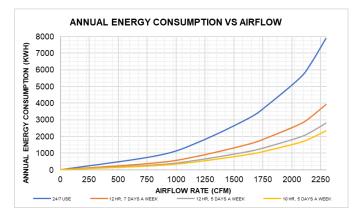
Operating Voltage	110/120 VAC
ECM Fan	5x 115VAC, 50/60HZ, Ball Bearing, IP54 Rated UL Listed: File Number E319742
Connectors	Deutsch DT, IP68 Rated

FILTRATION SPECIFICATIONS

First Stage	Antimicrobial Filter
	MERV 9 4" Radial Pleated Polyester Filters treated with Microban Aegis Microbe Shield®
Second Stage	ChemShield Molecular Adsorbent Media Filter
	24x24x12" V-Bank Filter with Proprietary Blend of Adsorbent Media
Third Stage	Antimicrobial Filter
	MERV 9 4" Radial Pleated Polyester Treated with Microban Aegis Microbe Shield®
Fourth Stage	HEPA Filter
	Certified 99.99% Effective 12" Pleated Glass Media Treated with Microban Aegis Microbe Shield®
Prote pestic are pac regula	OX is regulated by the US Environmental ction Agency and state governments as a cidal device. Accordingly, our air cleaners kaged and labeled in accordance with EPA ations under FIFRA section 2(q)(1) and 40 CFR Part 156. Registered Establishment No.: 97081-NC-1



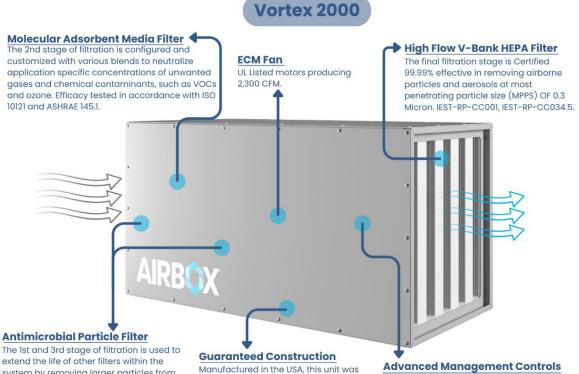




VORTEX 2000

HEPA FILTRATION AIR CLEANING DEVICE





extend the life of other filters within the system by removing larger particles from the air using it's proprietary dual-layered blended polyester media treated with an EPA registered antimicrobial agent. This filter has an efficiency value of MERV9-A and an ISO 16890 ePM2.5-55.

Manufactured in the USA, this unit was built to last with a transferable lifetime warranty. It was designed with a durable powder coat finish, all aluminum sheet metal skin for leak-free construction and seamless maintenance in mind with welldesigned slide-out filter racks and camlock style compression seals.

This unit is equipped with a remotely controlled dashboard that allows you to connect, manage, adjust, schedule, and monitor, allowing you to conserve energy and money. This software connects to the integrated differential pressure, VOC, and CO2 sensors on board to read real-time indoor air quality and track filter life and efficiency.

VORTEX 2000 SECTION VIEW