

VORTEX HVP

HEPA FILTRATION AIR CLEANING DEVICE



PRODUCT DESCRIPTION

AIRBOX Vortex HVP is a high-capacity, 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_{AC}) for outdoor and indoor install types. The Vortex 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 HVP 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, and a direct drive ECM Fan for maximized efficiency. In addition, the VORTEX HVP qualifies the space for ASHRAE 62.1 IAQP (Indoor Air Quality Procedure) through the use of air cleaning 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 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



Vortex HVP with Box Style End Transitions (not included)

TECHNICAL SPECIFICATIONS

Unit Size	65.5"H x 52"W x 107"L
Weight	1,500 lbs
Maximum Nominal Air Flow Rate	9,200 CFM (~550,000 CFH)
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	Transferrable Limited Lifetime Warranty

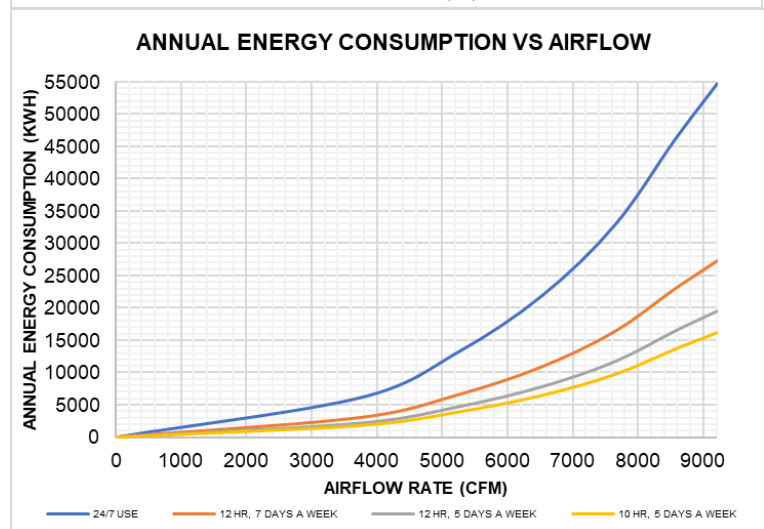
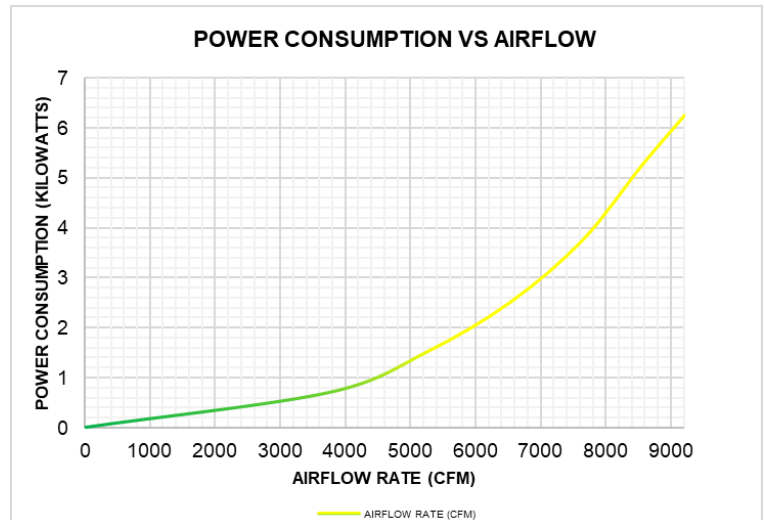
ELECTRICAL SPECIFICATIONS

Operating Voltage	3~ 200-240 VAC
ECM Fan	3~ 200-240 VAC, 50/60HZ, Ball Bearing, IP55 UL Listed
Connectors	Deutsch DT, IP68 Rated

FILTRATION SPECIFICATIONS

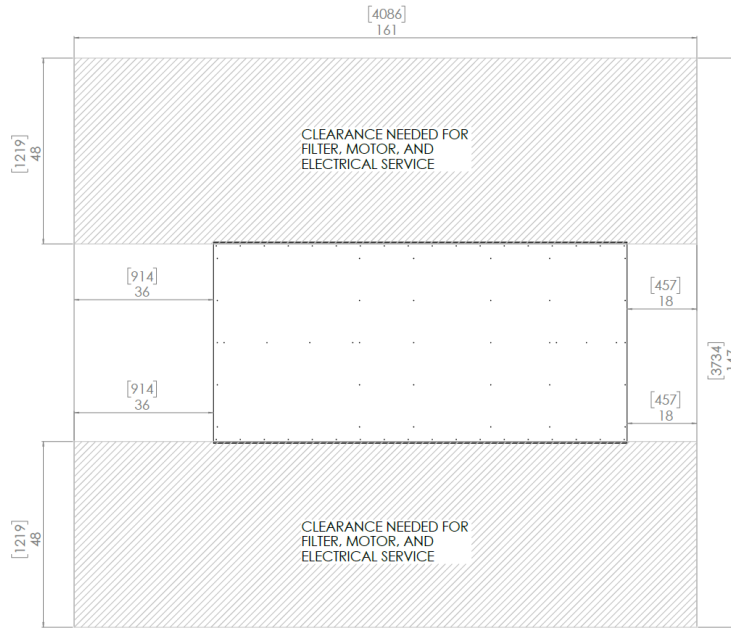
First Stage	Antimicrobial Filter
	MERV 9 4" Radial Pleated Polyester Filters treated with Microban Aegis Microbe Shield®
Second Stage	Chem Shield Advanced Molecular Adsorbent
	Dual 24x24x12" V-Bank Filter with Proprietary Blend of Adsorbent Media
Third Stage	Antimicrobial Filter
	MERV 9 4" Radial Pleated 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®

AIRBOX is regulated by the US Environmental Protection Agency and state governments as a pesticidal device. Accordingly, our air cleaners are packaged and labeled in accordance with EPA regulations under FIFRA section 2(q)(1) and 40 CFR Part 156.
EPA Registered Establishment No.: 97081-NC-1

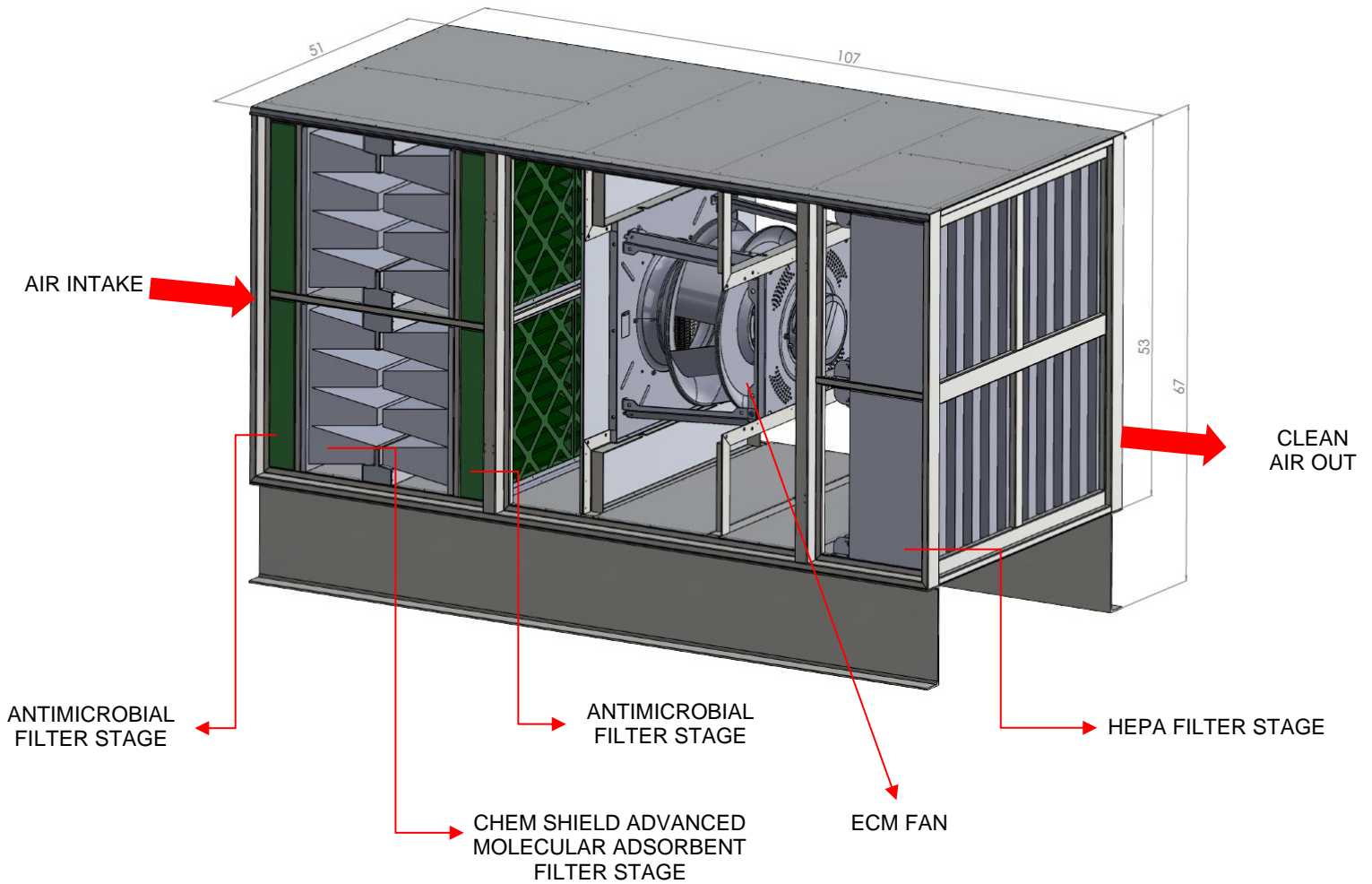


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MINIMUM INSTALLATION CLEARANCES FOR VORTEX HVP UNIT SERVICE



VORTEX SECTION VIEW