



Building Performance Equipment, Inc.®

Sustainable, Reliable, Energy Efficient, Ventilation Systems



BPE-SC-UNI-4000 Commercial Installation Specifications and Guidance

BPE Inc.
80 Broadway, Hillsdale, NJ

Phone: 201-722-1414
info@bpequip.com





Building Performance Equipment, Inc.®

Sustainable, Reliable, Energy Efficient, Ventilation Systems



At Building Performance Equipment Inc., we are committed to designing high-efficiency HVAC systems. With superior energy recovery at the heart of our current product line, we have raised the bar on ERVs that make a satisfying impact on your energy bill, health, and carbon footprint. This document is intended to illustrate the assembly of a commercial 4000 cfm ERV with necessary components and information provided. Please contact us at 201-722-1414 if you have any questions.



Building Performance Equipment, Inc.®

Sustainable, Reliable, Energy Efficient, Ventilation Systems



BPE self-contained unitary ventilation systems are tested during the manufacturing process before we carefully package them for shipping.

The control system has the following features:

Easy To Use — Setting changes can be made easily with the touch of a button.

Easy To See — Intuitive digital backlit display.

Customizable — Include individual air quality enhancements to your system with TrueIAQ™, or integrate them all as part of a total air quality system.



All-In-One — Manages humidification, dehumidification, ventilation and bathroom fans from a central point in your home.

Smart Change/Check Reminders — Lets you know when to service or replace filters, UV bulbs and humidifier pads (based on actual run time).

Advanced Temperature and Humidity Sensing — Simultaneously displays both indoor and outdoor temperature and humidity levels on-screen. Automatically adjusts inside settings based on outdoor conditions.

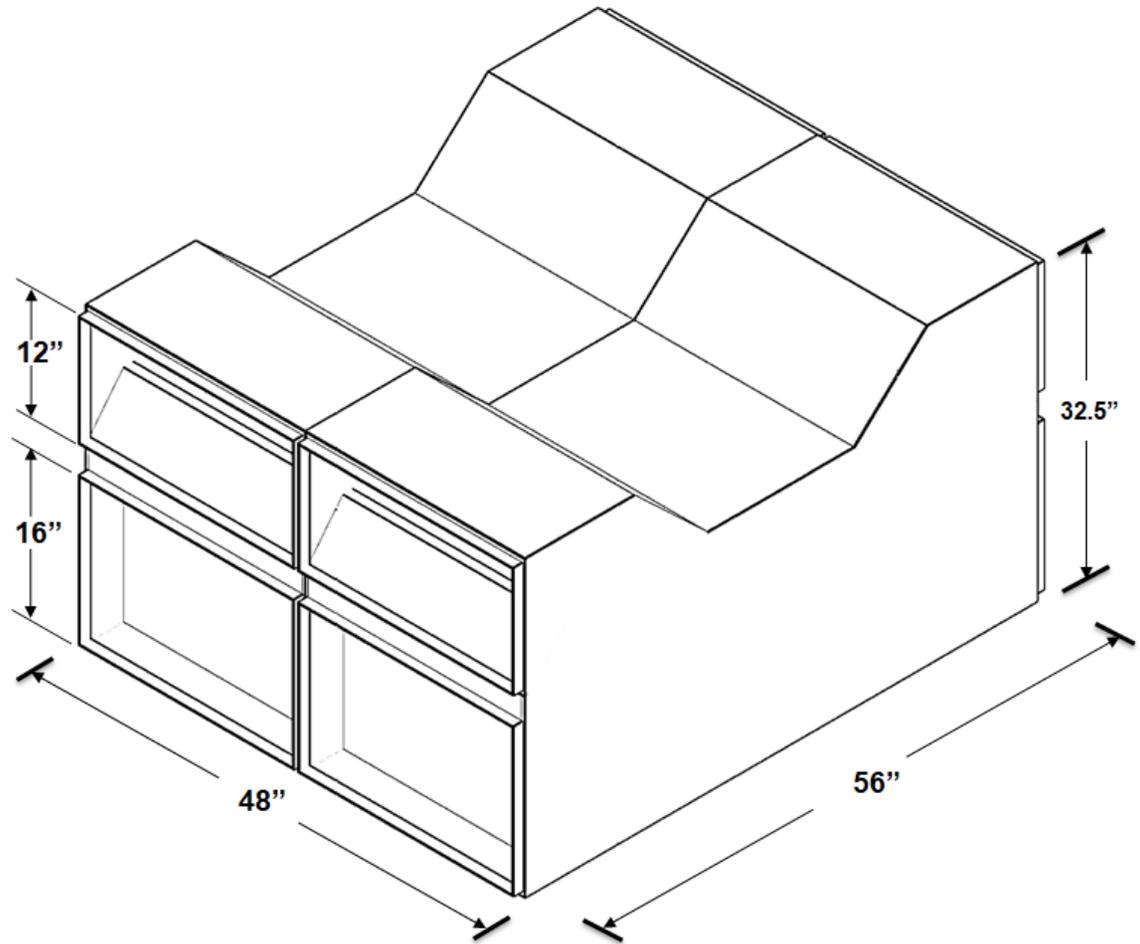




BPE-SC-UNI-4000

Specifications

Model Number	BPE-XE-MIR 4000, Energy Recovery Ventilator (ERV)
Ventilation Type	Fixed Plate Polymer, Heat and Humidity Transfer
Typical Air Flow Range	1000-4000 cfm
Thermal Efficiency	82% @ 2500 cfm 90% @ 1500 cfm
Product Weight/ Shipping Weight	404 lbs./444 lbs. Unit Height 32.5"
Shipping Dimensions	(2) 56" L x 24" W x 32.5" H
Typical Fan	CANARM 9215-VIB Inline Duct Blower (See page 8)

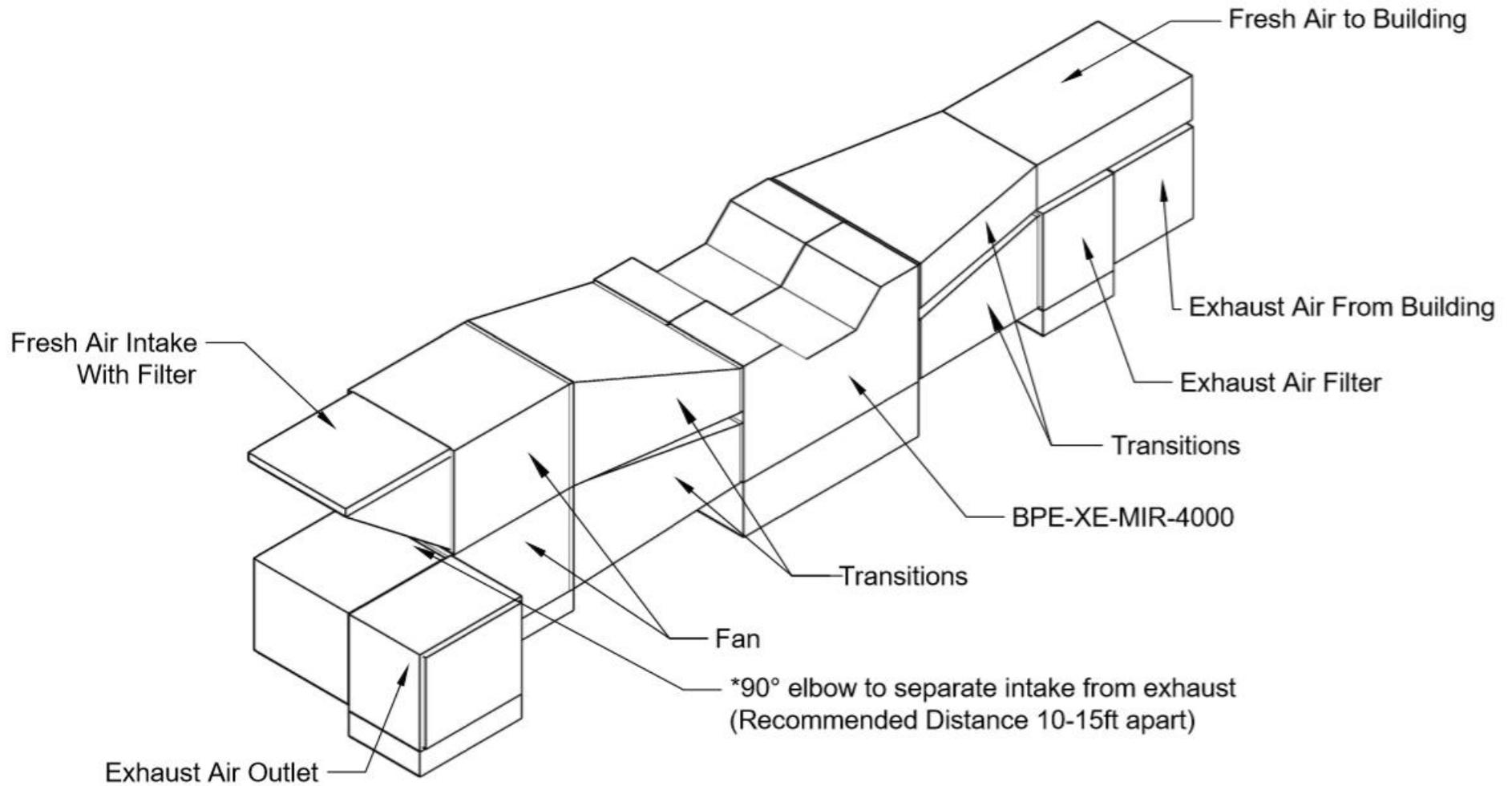


Note: Dimensions subject to change without notice



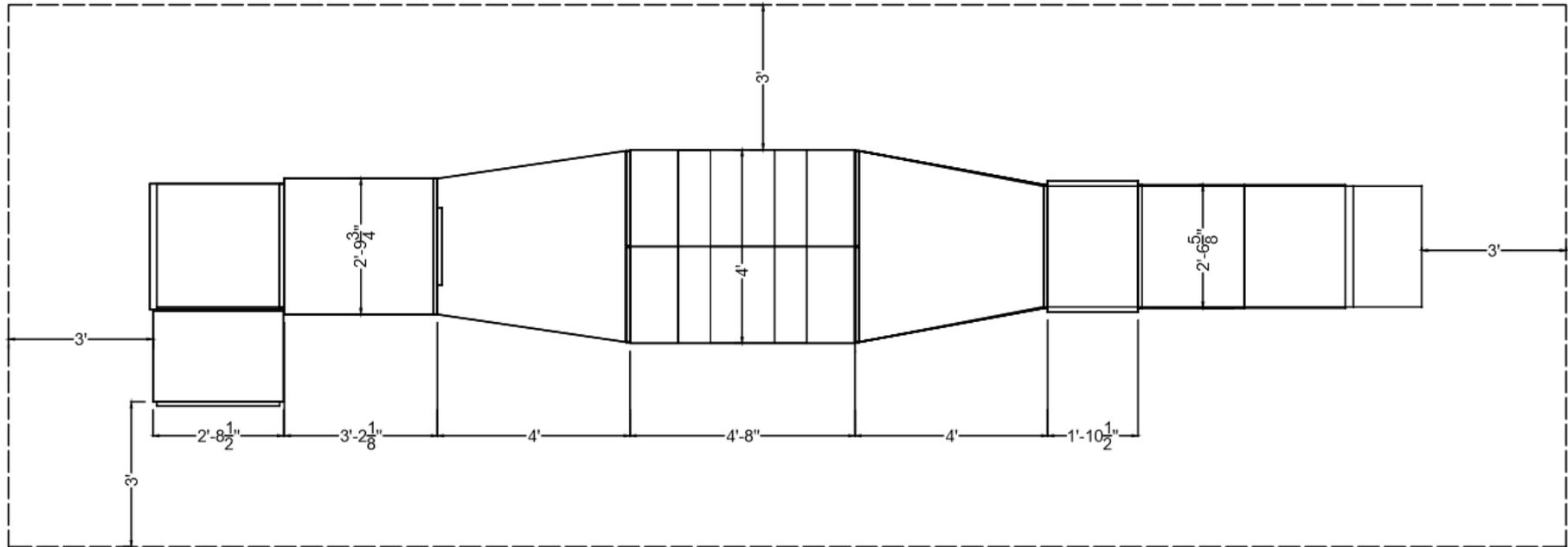
BPE-SC-UNI-4000

Layout





BPE-SC-UNI-4000 Layout



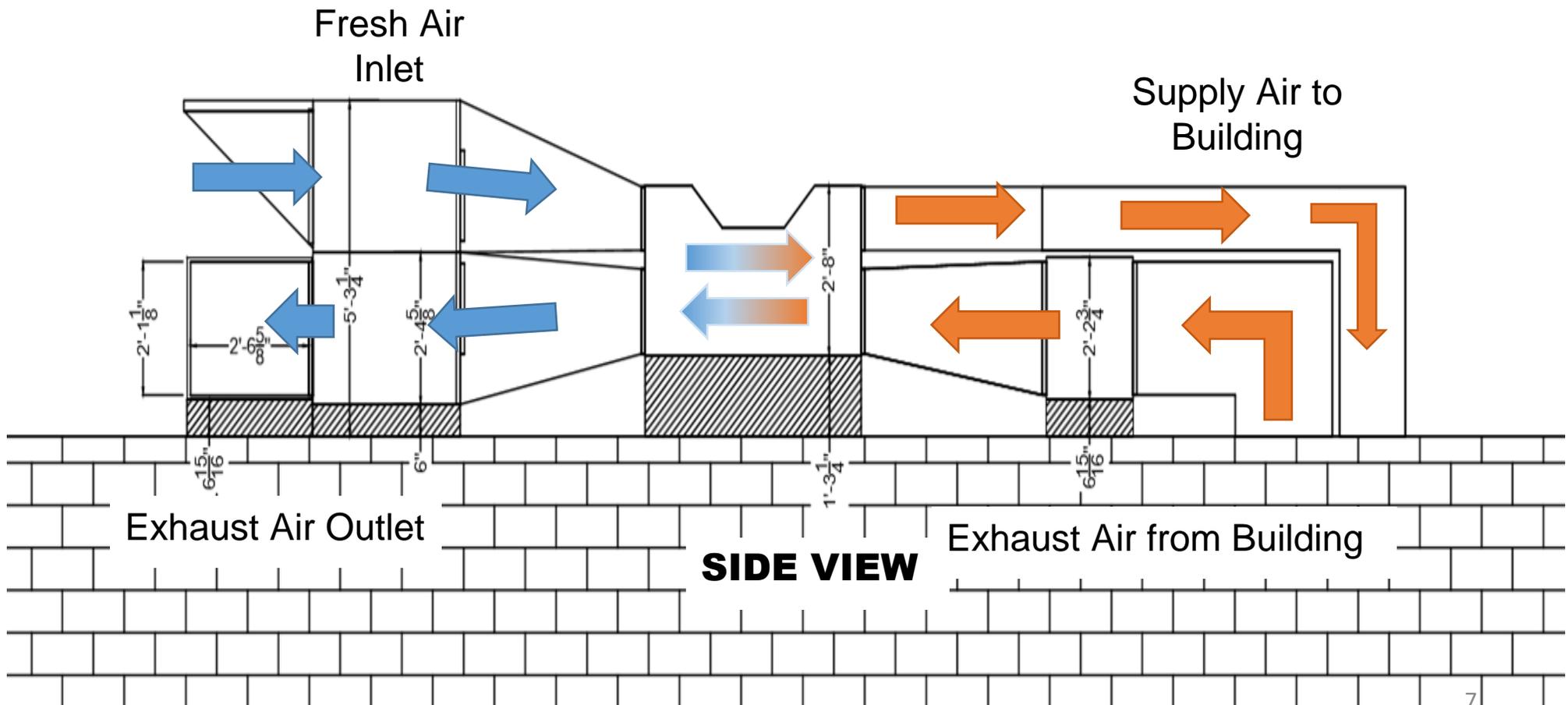
Note: Dimensions subject to change without notice

*Recommended 3' space around perimeter of unit setup for accessibility

**TOP
VIEW**

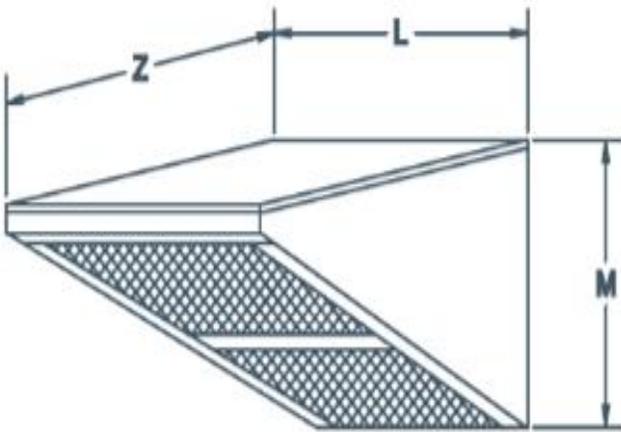


BPE-SC-UNI-4000 Layout



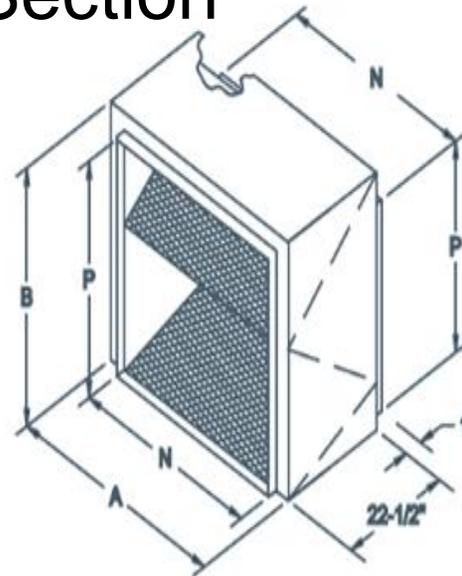
Intake Hood & Filter Selection

H9215 Intake



L	31 3/16"
M	25 13/16"
Z	33 1/2"

F9215A Filter Section



A	32 1/2"
B	26 3/4"
N	30 5/8"
P	25 1/8"



Fan Selection

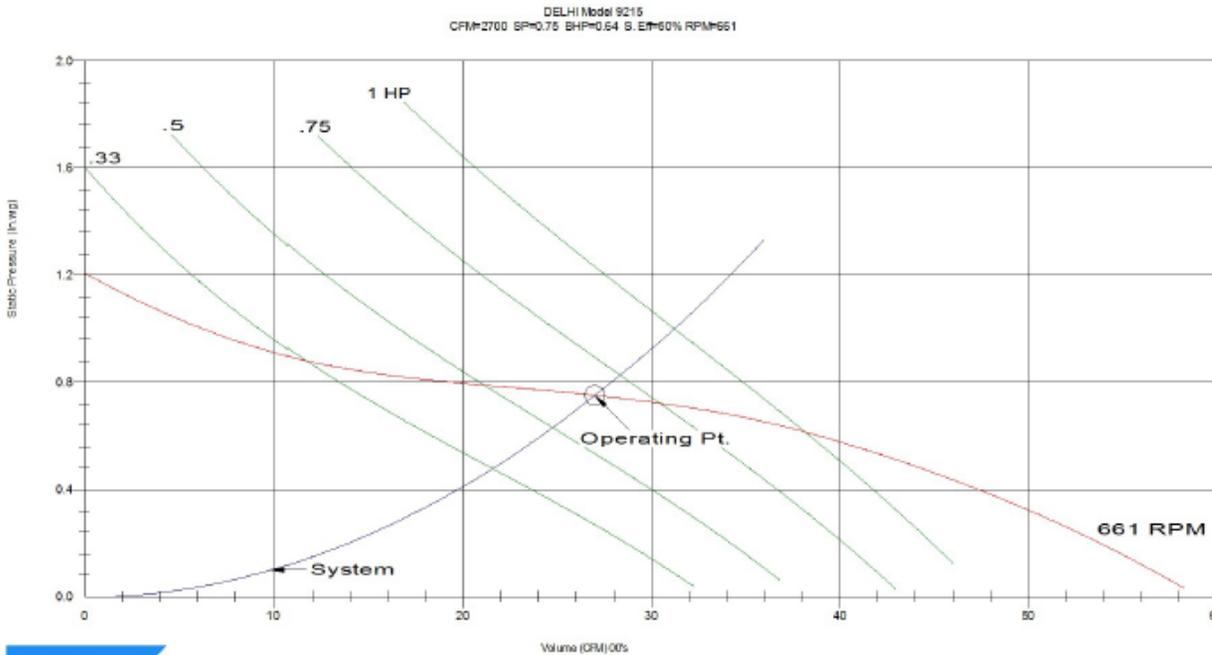
Model Information

Model: 9215	Part Number: 9020036	Unit Weight: 176
CFM: 2700	Shaft Diameter: 1	Ship Weight: 214
SP: 0.75	Wheel Diameter: 15.28	
RPM: 661	Tip Speed: 2644 FPM	
BHP: 0.64	Static Efficiency: 50	Elevation: 0
	Outlet Velocity: 1165 FPM	Temperature: 70

Sound Data

Sound Power Level @ Frequency, re: 10 ⁻¹² Watts	63	125	250	500	1000	2000	4000	8000	(Hz)	LwA: 70
	78	79	73	65	61	59	56	50	(dB)	SONES: 10.1
	Ducted inlet <u>or</u> ducted outlet dBA @5 ft. 59					Ducted inlet <u>and</u> ducted outlet dBA @5 ft. 39				

Performance Curve



Note: Fan supplier subject to change by BPE without notice



Canam certifies that the 200, 200-2, 9200 and 9200-2 Series Duct Blowers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Programme.

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating bhp does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are in loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA 301. Values shown are for Installation Type B: free inlet hemispherical fan sone levels. Twin unit data is derived from tests of single width fans.

v. 13.0.15

Fan Selection

Drive Information

Motor Pulley 8400 x 5/8" \ 8500036	Turns Open 2.5	Blower Pulley MBL107 \ 8500007	Bushing H x 1 \ 8500063	Belt B59 \ 8200059
---------------------------------------	-------------------	-----------------------------------	----------------------------	-----------------------

Motor Data

Motor HP and Type 1 ODP	Volts/Phase 115/208-230/1 Phase	Frame 56	Motor RPM 1725	Position 1	Canarm Part Number 1MD114
----------------------------	------------------------------------	-------------	-------------------	---------------	------------------------------

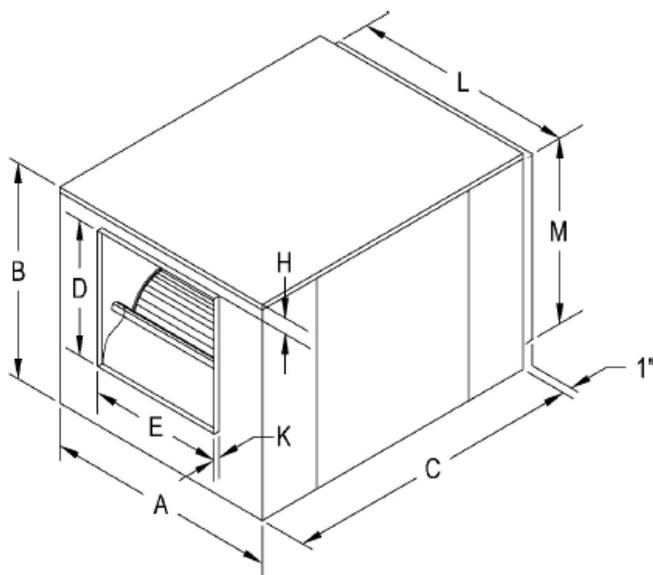
Options

IH-F Filtered Intake Hood

Dimensions

Model: 9215

(Inches)



<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>H</u>	<u>K</u>	<u>L</u>	<u>M</u>
33.75	28.625	38.125	17.0	19.625	2.125	1.125	30.625	25.25

Standard Features

9200 Series Duct Blowers (In-line Cabinet Fans)

- Forward curved wheel provides quiet, low rpm operation.
- Cabinet is galvanized steel for outdoor use.
- Baked on textured green polyethylene powder coat finish.
- Fiberglass insulation reduces noise, condensation, and energy costs.
- Self aligning Pillow Block Bearings.
- Access panels for convenient motor mounting on either side.

Note: Fan supplier subject to change by BPE without notice