



Building Performance Equipment, Inc.®

Sustainable, Reliable, Energy Efficient, Ventilation Systems



BPE-SC-UNI-6000 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 6000 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).

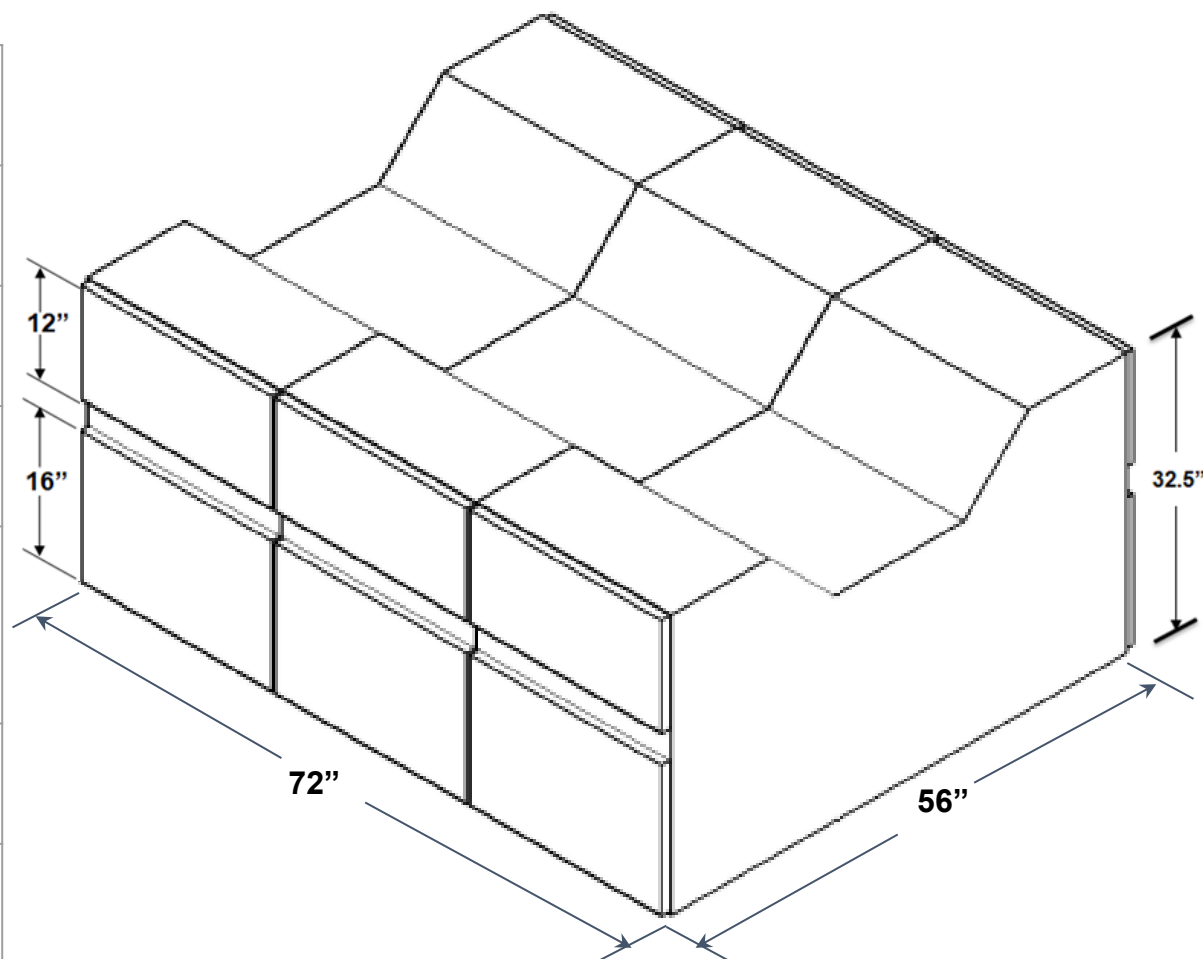
Advanced Temperature and Humidity Sensing —
Simultaneously displays both indoor and outdoor temperature and humidity levels on-screen. Automatically adjusts inside settings based on outdoor conditions.



BPE-SC-UNI-6000

Specifications

Model Number	BPE-XE-MIR 6000, Energy Recovery Ventilator (ERV)
Ventilation Type	Fixed Plate Polymer, Heat and Humidity Transfer
Typical Air Flow Range	3000-6000 cfm
Thermal Efficiency	82% @ 3700 cfm 72% @ 5500 cfm
Product Weight/ Shipping Weight	606 lbs./666 lbs.
Shipping Dimensions	(3) 56" L x 24" W x 32.5 H"
Typical Fan	CANARM 9220-VIB Inline Duct Blower (See page 8)

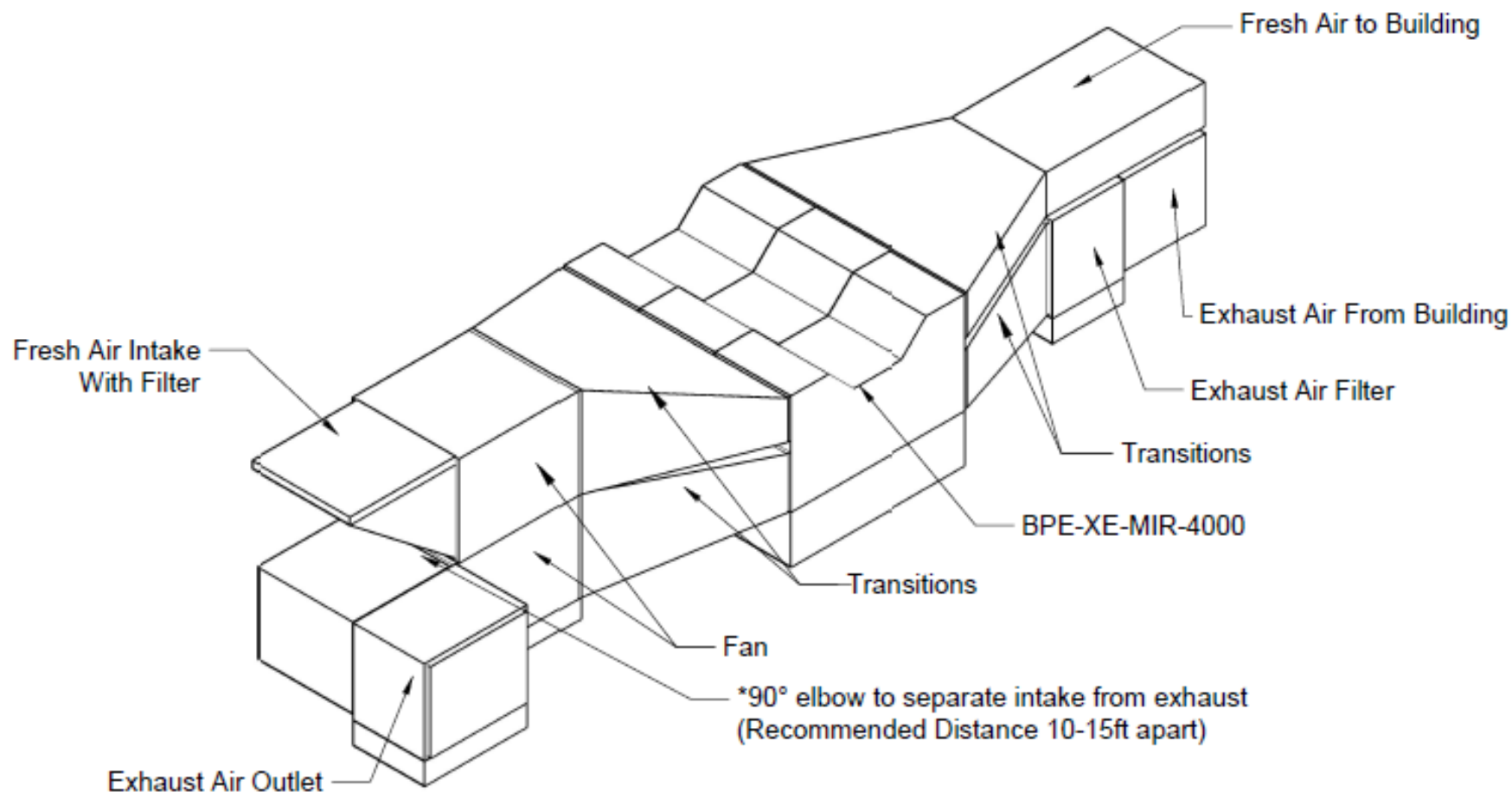


Note: Dimensions subject to change without notice



BPE-SC-UNI-6000

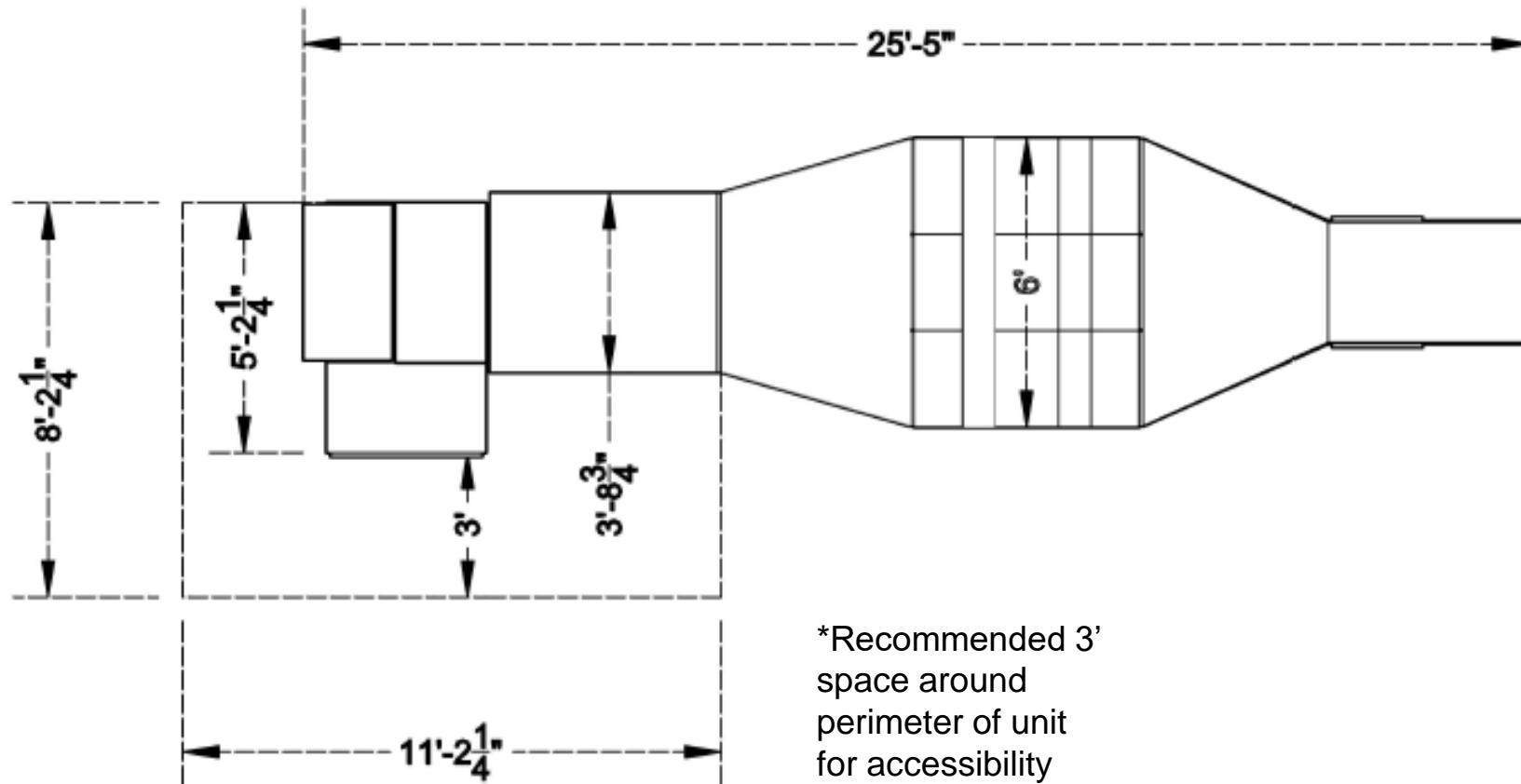
Layout





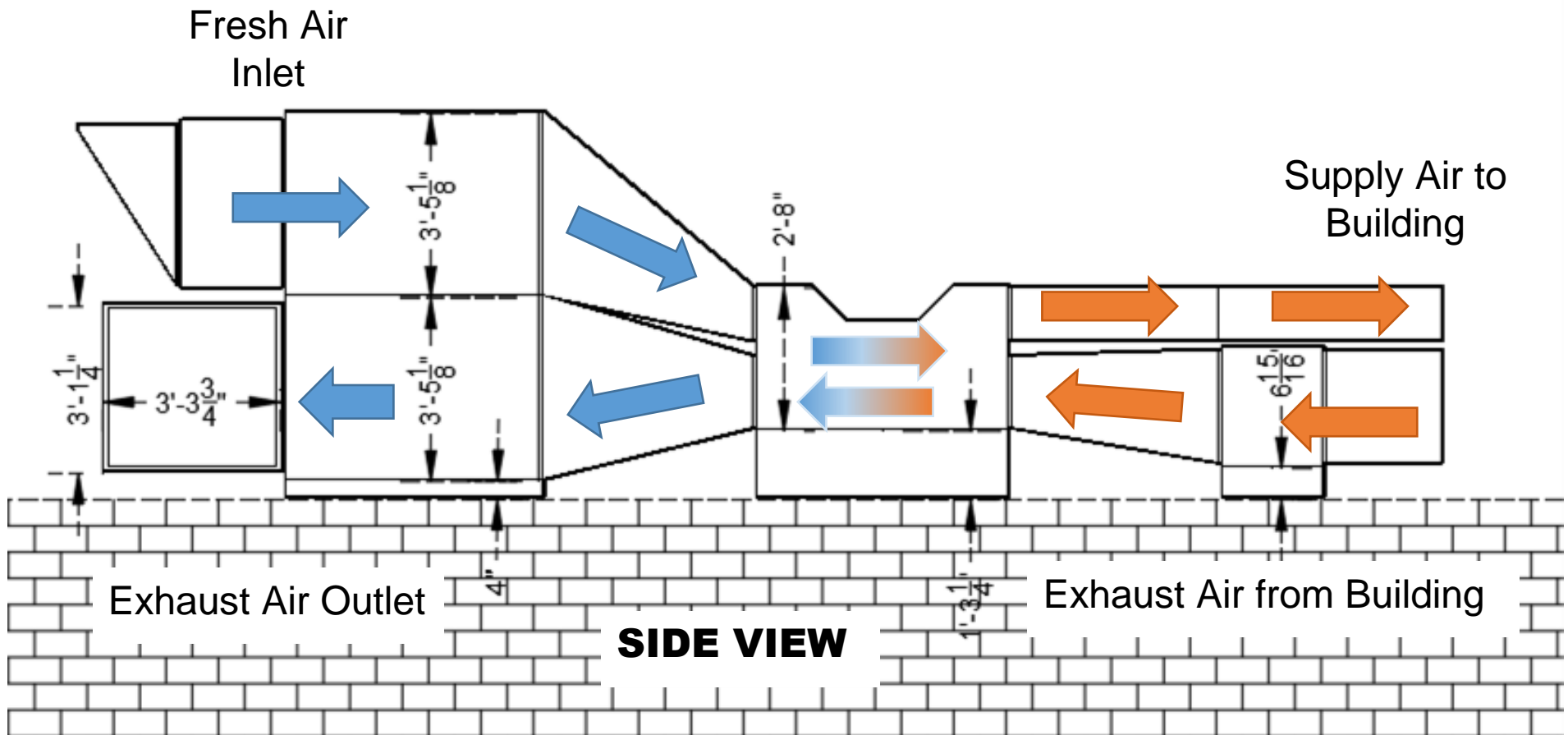
BPE-SC-UNI-6000 Layout

Note: Dimensions subject to change without notice



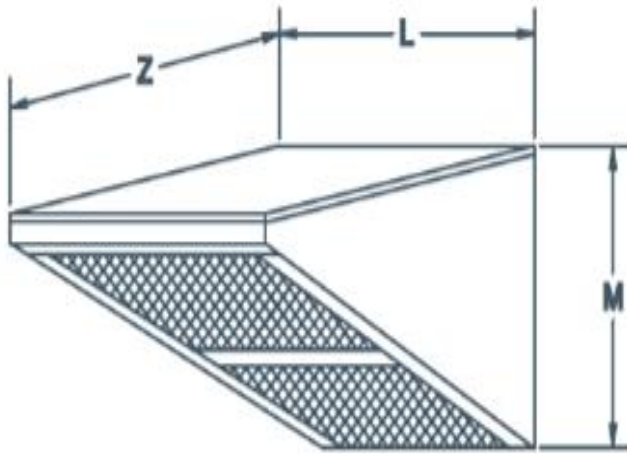
TOP VIEW

BPE-SC-UNI-6000 Layout



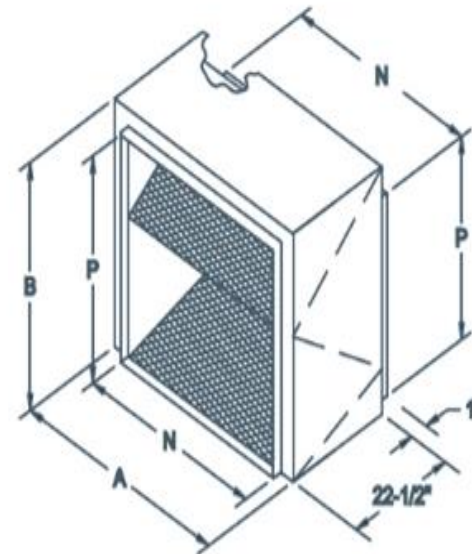
Intake Hood & Filter Selection

H9220 Intake Hood



L	38 5/8"
M	35 9/16"
Z	22"

F9220A Filter Section



A	39 3/4"
B	37 1/4"
N	38 1/2"
P	35 1/4"

Fan Selection

Model Information

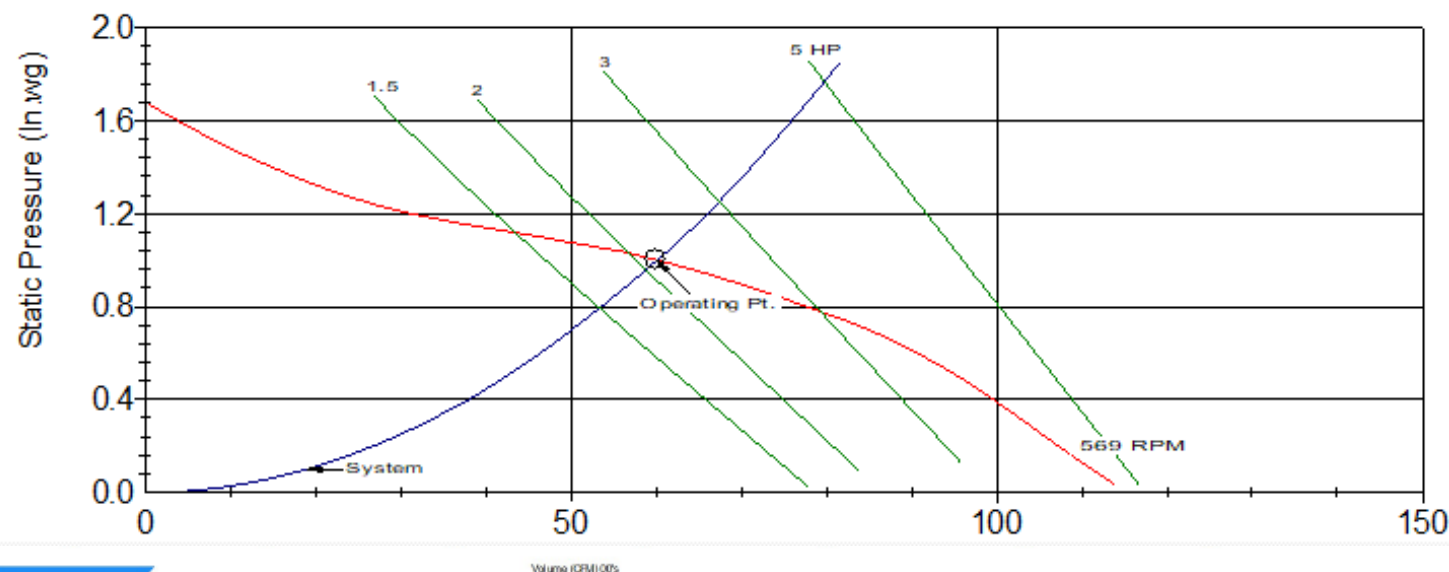
Model: 9220VIB	Part Number: 9020306	
CFM: 6000	Shaft Diameter: 1.4375	Unit Weight: 515
SP: 1	Wheel Diameter: 20.4375	Ship Weight: 574
RPM: 569	Tip Speed: 3044 FPM	
BHP: 2.13	Static Efficiency: 44	Elevation: 0
	Outlet Velocity: 1303 FPM	Temperature: 70

Sound Data

	63	125	250	500	1000	2000	4000	8000	(Hz)	LwA: 72
Sound Power Level @ Frequency, re: 10 ⁻¹² Watts	86	82	72	70	63	57	53	50	(dB)	SONES: 11.8
Ducted inlet or ducted outlet dB A @5 ft. 61					Ducted inlet and ducted outlet dB A @5 ft. 41					

Performance Curve

DELHI Model 9220MB
CFM=6000 SP=1 BHP=2.13 S. Eff=44% RPM=569



Note: Fan supplier subject to change by BPE without notice

Fan Selection

Drive Information

Motor Pulley	Turns Open	Blower Pulley	Bushing	Belt
8400 x 1-1/8" \ 8500038	4	MBL127 \ 8500009	H x 1-7/16 \ 8500065	B78 \ 8200078

Motor Data

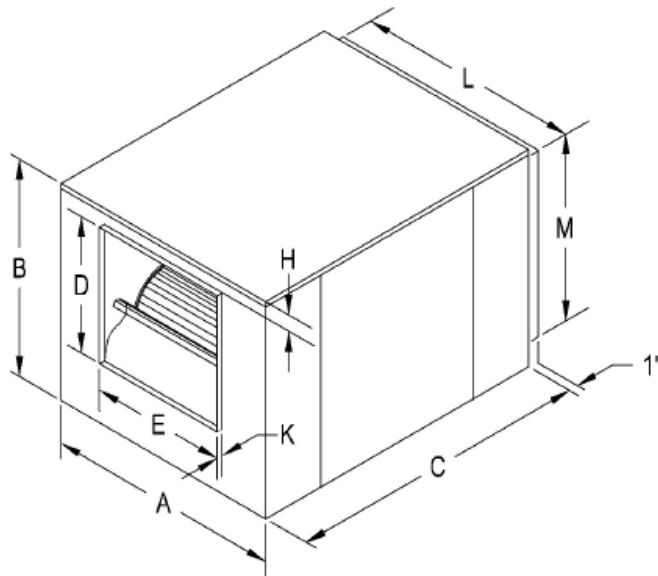
Motor HP and Type	Volts/Phase	Frame	Motor RPM	Position	Canarm Part Number
3 ODP	115/230/1 Phase	184	1725	1	1MD117

Options

Dimensions

Model: 9220VIB

(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>
44.75	41.125	57.5	25.75	25.75	3.0	1.125	38.375	35.125

Standard Features

9200 VIB Series Duct Blowers (In-line Cabinet Fans)

- Forward curved wheel provides quiet, low rpm operation.
- Internal spring isolation further reduces sound radiation.
- Cabinet is galvanized steel for outdoor use with 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