



Building Performance Equipment, Inc.®

Sustainable, Reliable, Energy Efficient, Ventilation Systems



BPE-XE-MIR 12000 Commercial Installation Specifications and Guidance

BPE Inc.
80 Broadway, Hillsdale, NJ

Phone: 201-722-1414
Fax: 201-722-0999
bpequip.com





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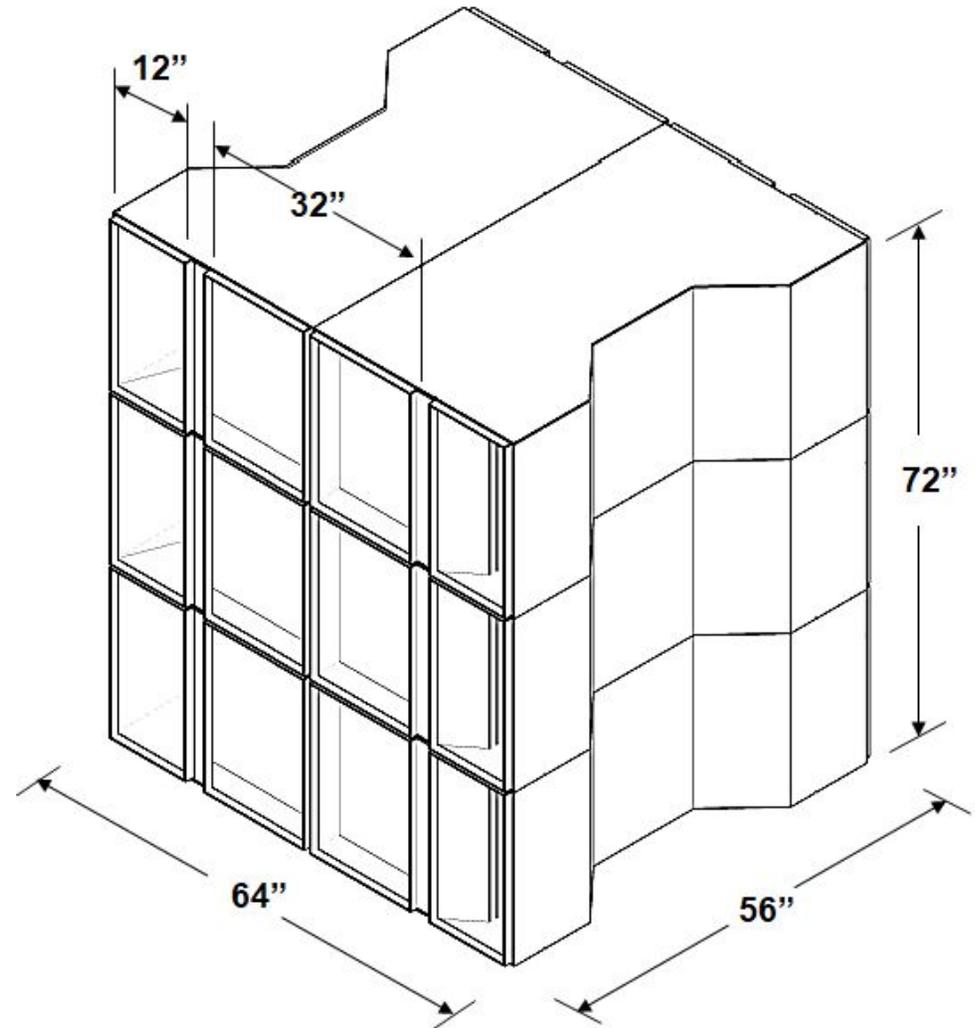


Here at Building Performance Equipment Inc., we are committed to engineering energy efficient HVAC systems. We specialize in ventilation and energy recovery with our current product line. This document is intended to illustrate the assembly of a commercial 12000 cfm ERV with all necessary components and information provided. Please contact us at 201-722-1414 if you have any questions.

BPE-XE-MIR 12000

Specifications

Model Number	BPE-XE-MIR 12000, Energy Recovery Ventilator (ERV)
Ventilation Type	Fixed Plate Polymer, Heat and Humidity Transfer
Typical Air Flow Range	8000-12000 cfm
Thermal Efficiency	71% @ 11000 cfm 81% @ 8000 cfm
Product Weight/ Shipping Weight	1212 lbs./1300 lbs.
Shipping Dimensions	(6) 72" x 48" x 37"
Typical Fan	CANARM 9220-VIB Inline Duct Blower (See page 8)

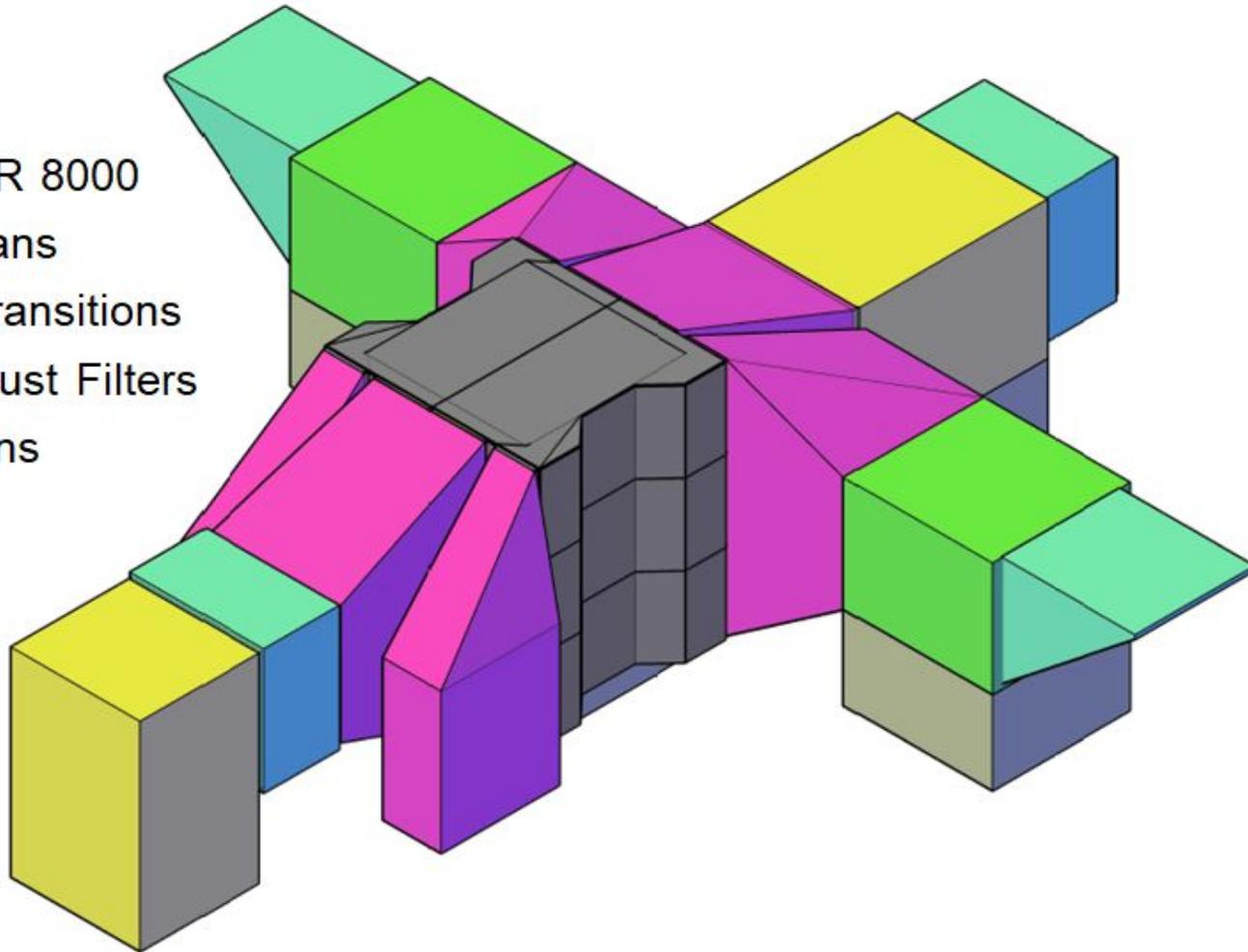




BPE-XE-MIR 12000

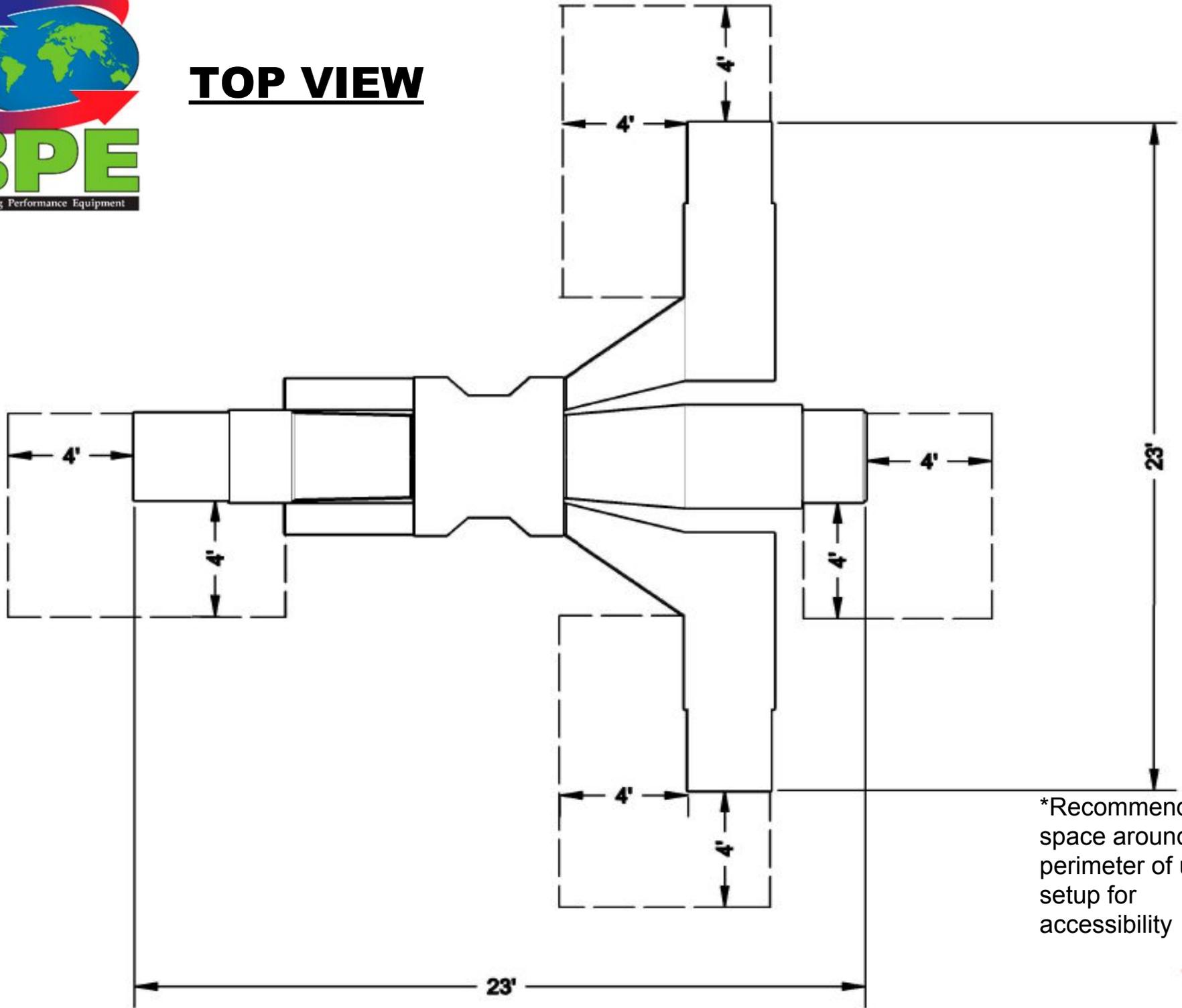
Layout

- BPE-XE-MIR 8000
- Fresh Air Fans
- Ductwork/Transitions
- Intake/Exhaust Filters
- Exhaust Fans





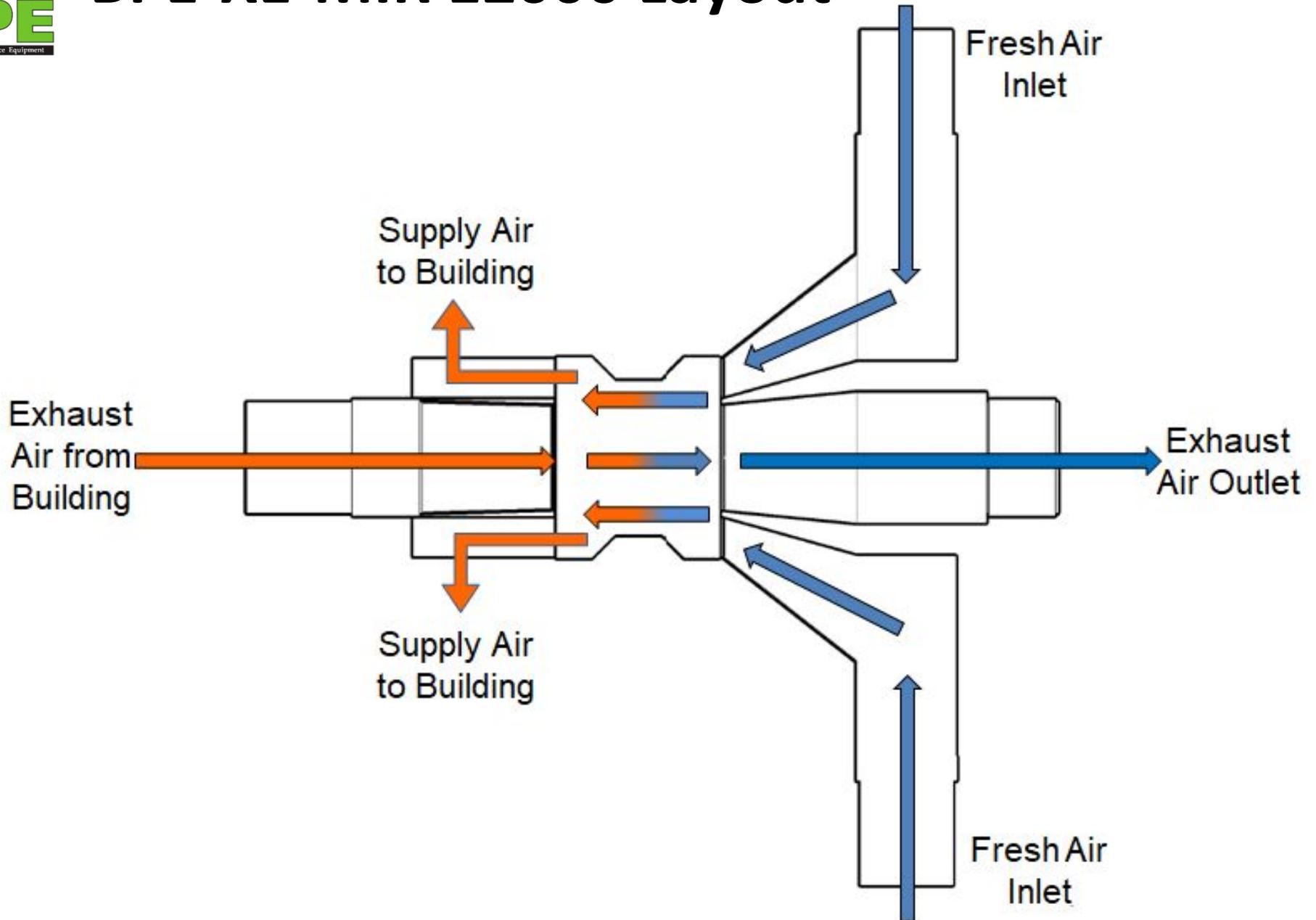
TOP VIEW



*Recommended 4' space around perimeter of unit setup for accessibility

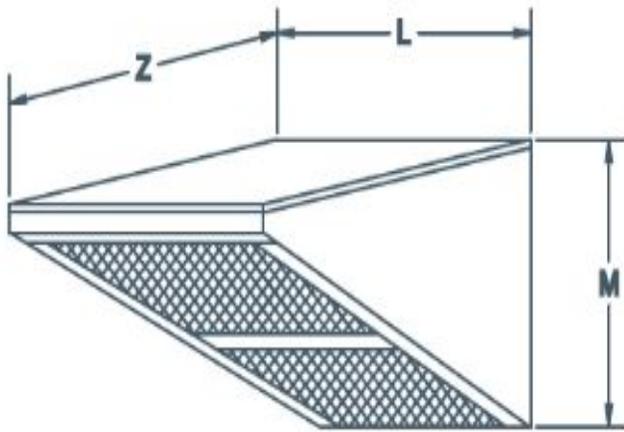


BPE-XE-MIR 12000 Layout



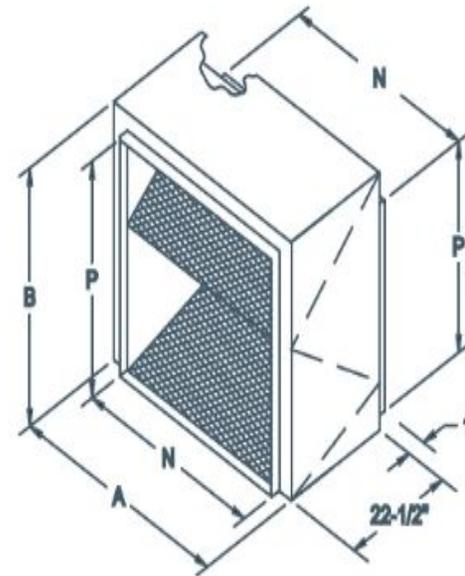
Intake Hood & Filter Selection

H9218 Intake



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

F9215A Filter Section



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



Fan Selection 9220-VIB Inline Duct Blower

Model Information

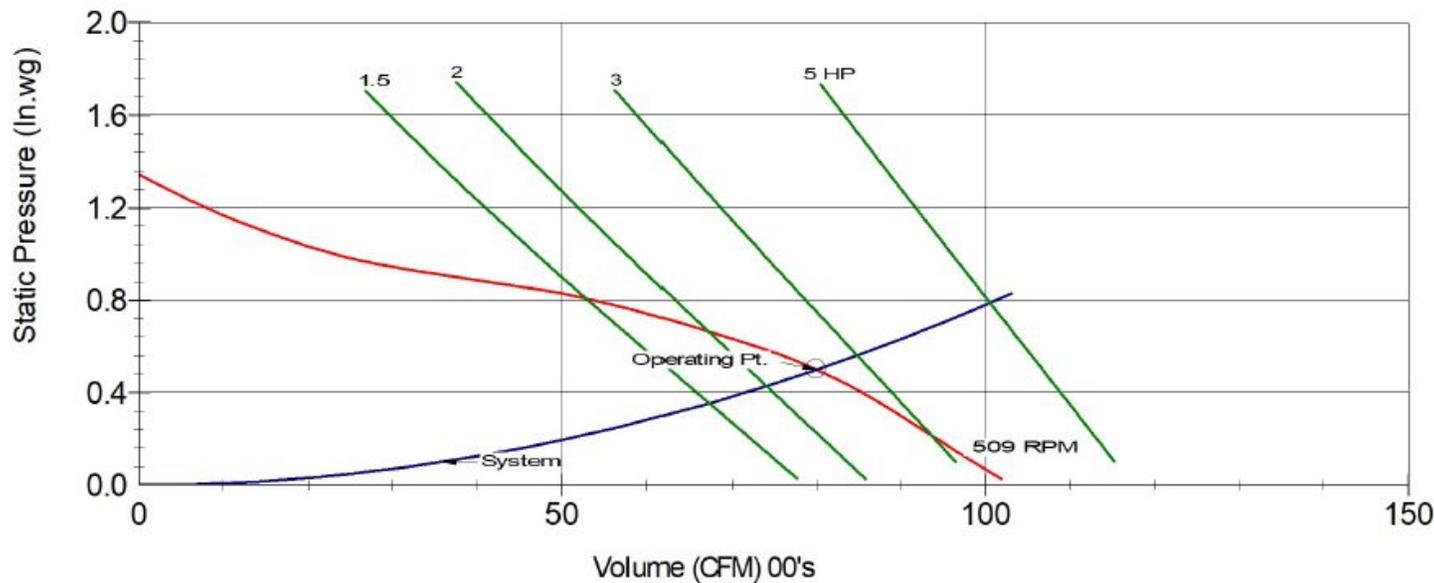
Model: 9220VIB	Part Number: 9020306	
CFM: 8000	Shaft Diameter: 1.4375	Unit Weight: 515
SP: 0.5	Wheel Diameter: 20.4375	Ship Weight: 574
RPM: 509	Tip Speed: 2723 FPM	
BHP: 2.47	Static Efficiency: 25	Elevation: 0
	Outlet Velocity: 1737 FPM	Temperature: 70

Sound Data

	63	125	250	500	1000	2000	4000	8000	(Hz)	LwA: 71
Sound Power Level @ Frequency, re: 10 ⁻¹² Watts	85	80	73	70	63	58	53	51	(dB)	SONES: 11
	Ducted inlet <u>or</u> ducted outlet dBA @5 ft. 60					Ducted inlet <u>and</u> ducted outlet dBA @5 ft. 40				

Performance Curve

DELHI Model 9220VB
CFM=8000 SP=0.5 BHP=2.47 S. Eff=25% RPM=509





Fan Selection

Drive Information

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

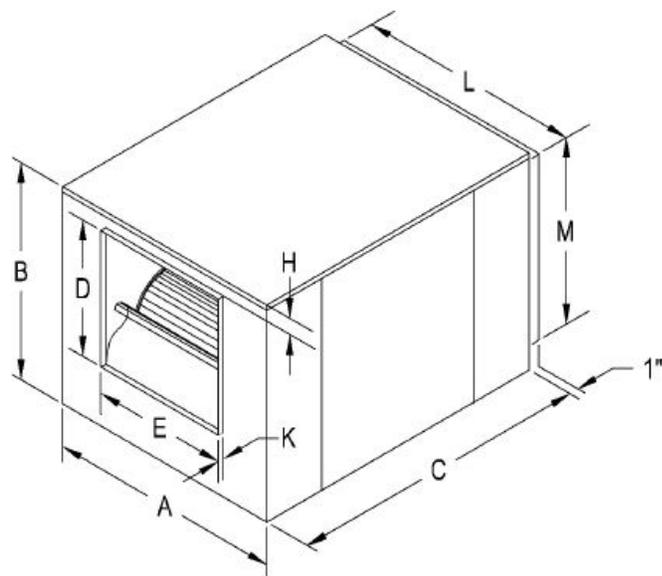
Motor HP and Type 3 ODP	Volts/Phase 115/230/1 Phase	Frame 184	Motor RPM 1725	Position 1	Canarm Part Number 1MD117
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Options

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.

