



# Building Performance Equipment, Inc.®

Sustainable, Reliable, Energy Efficient, Ventilation Systems



## BPE-SC-UNI-20000 Commercial Installation Specifications and Guidance

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# 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 20000 cfm ERV with necessary components and information provided. Please contact us at 201-722-1414 if you have any questions.



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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.

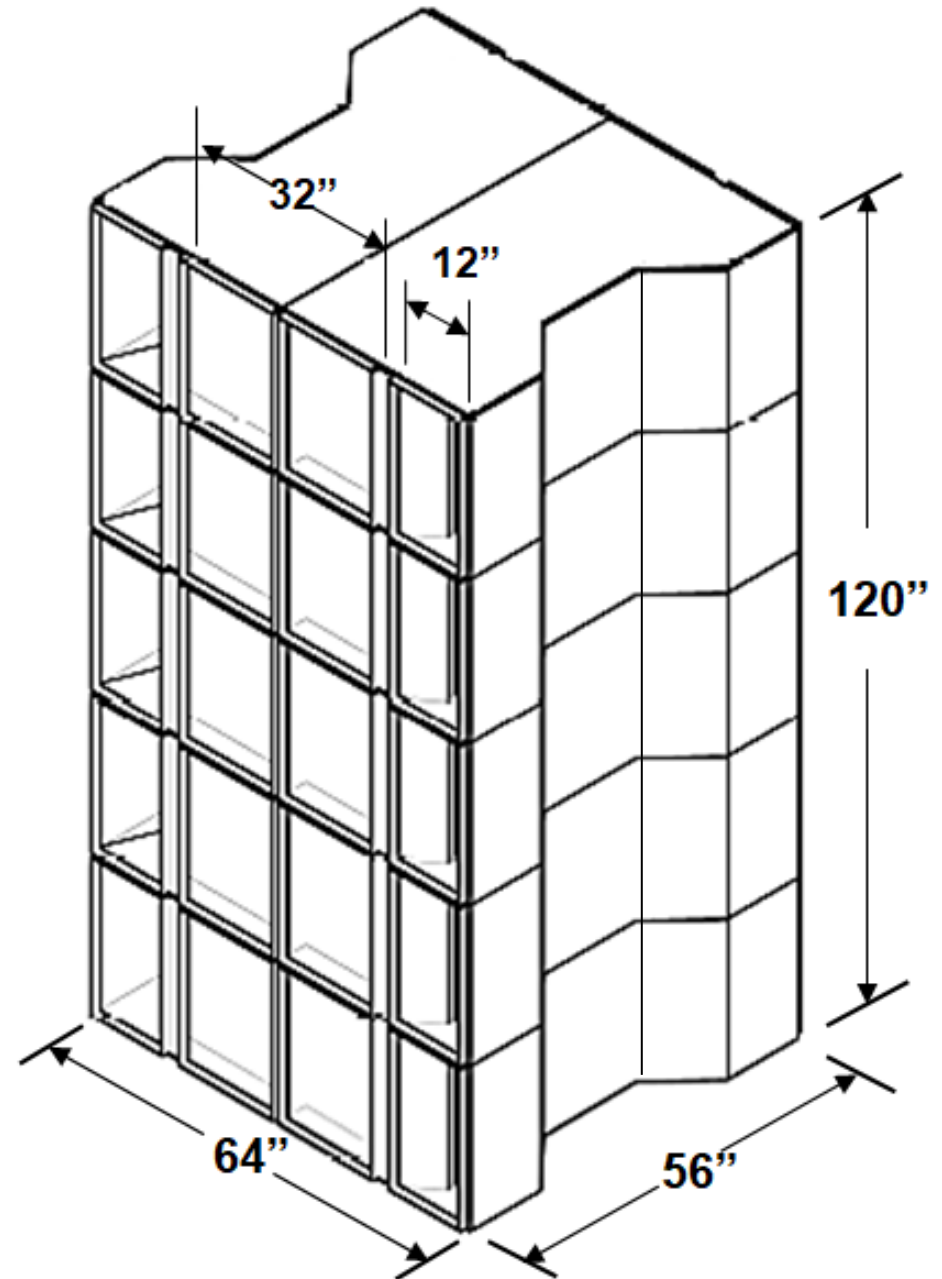


# BPE-SC-UNI-20000

## Specifications

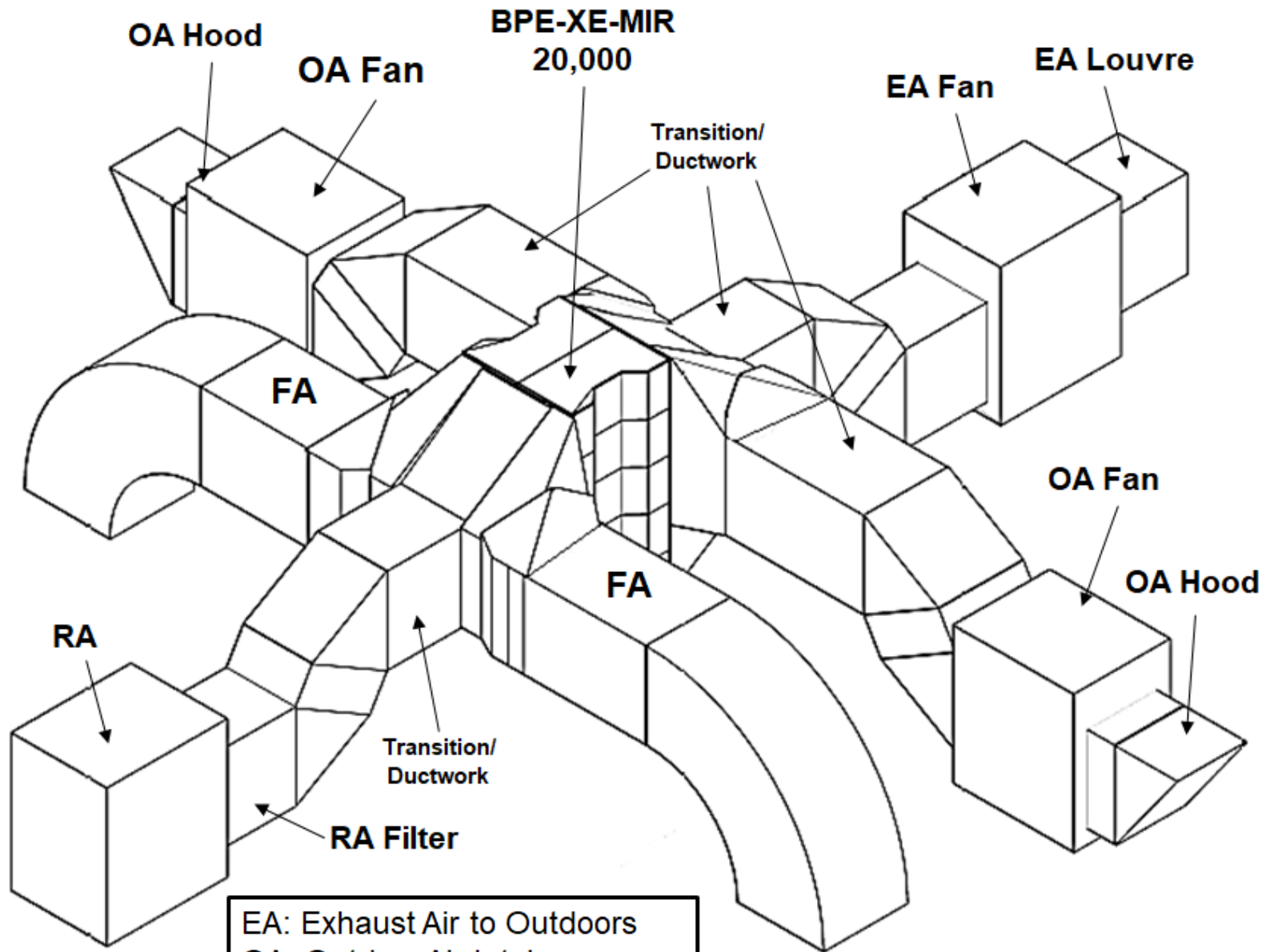
Model Number	BPE-XE-MIR 20000, Energy Recovery Ventilator (ERV)
Ventilation Type	Fixed Plate Polymer, Heat and Humidity Transfer
Typical Air Flow Range	14000-20000 cfm
Thermal Efficiency	72% @ 18000 cfm 80% @ 14000 cfm
Product Weight/ Shipping Weight	2020 lbs./2100 lbs.
Shipping Dimensions	(10) 56" L x 24" W x 32.5" H
Typical Fan	PENN BARRY ESI-330

**Note:** Dimensions subject to change without notice





# BPE-SC-UNI-20000 Layout

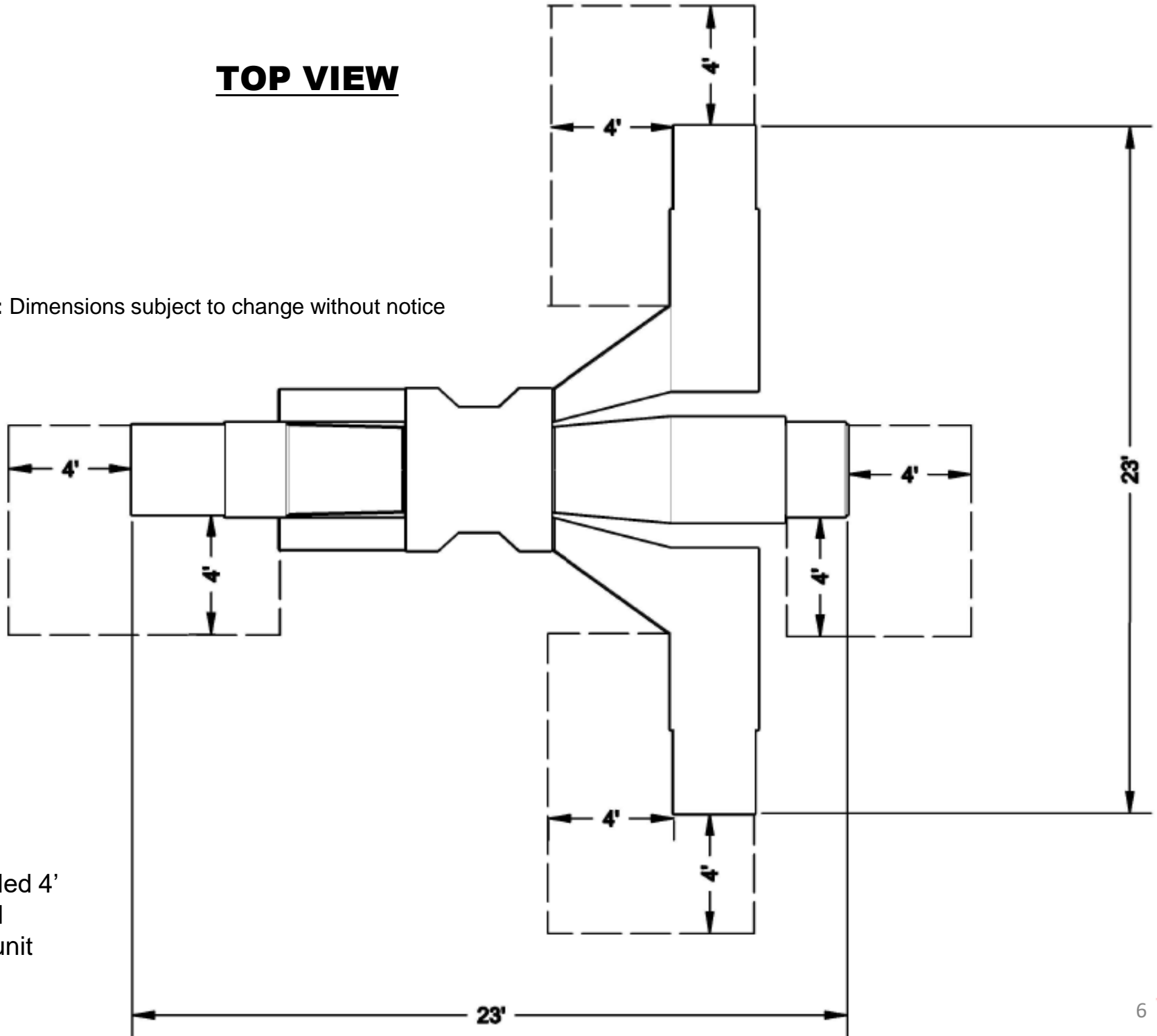


EA: Exhaust Air to Outdoors  
OA: Outdoor Air Intake  
RA: Room Air to be Exhausted  
FA: Fresh Air to Inside



## TOP VIEW

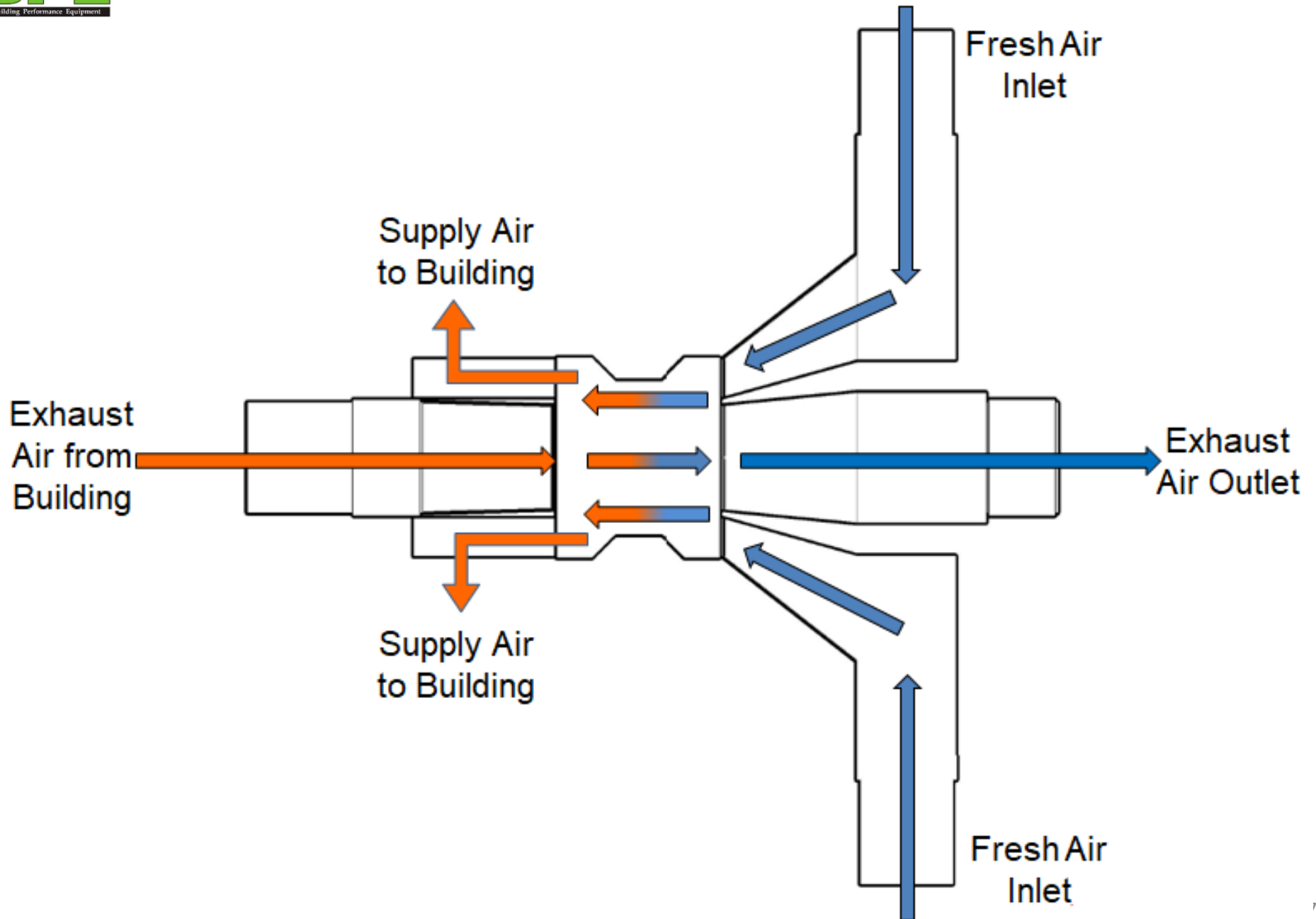
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\*Recommended 4'  
space around  
perimeter of unit  
setup for  
accessibility

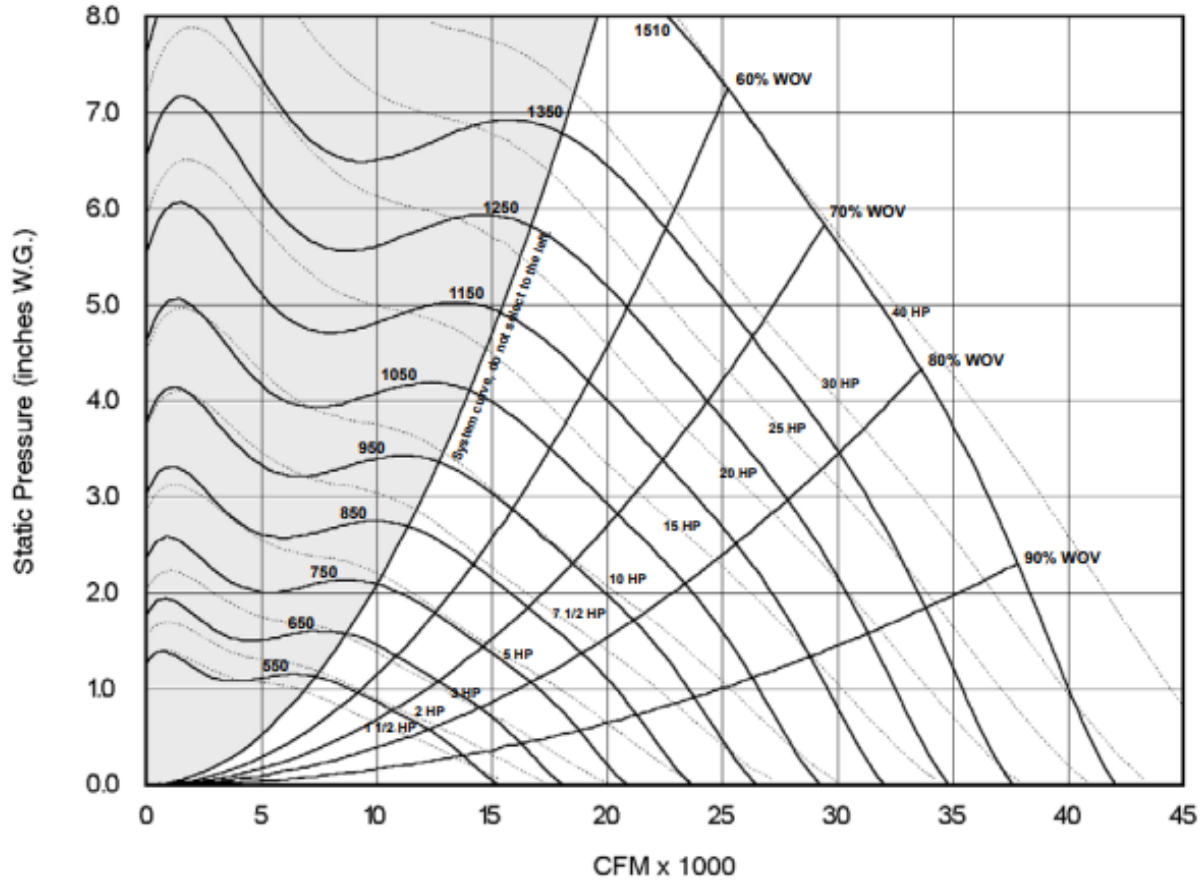
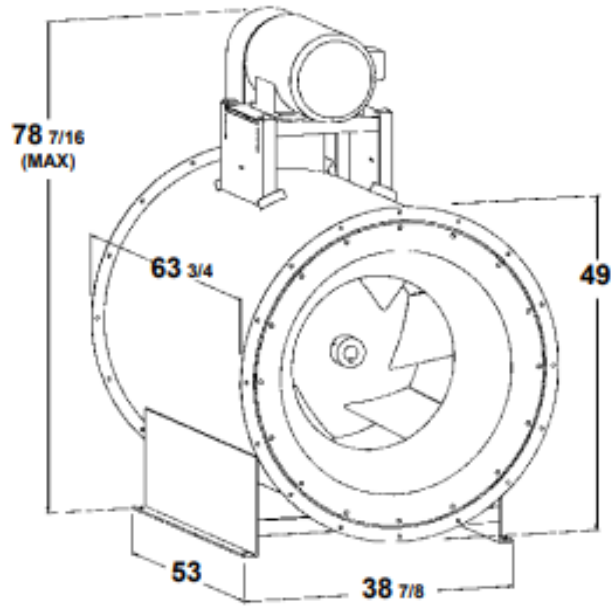


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# Fan - Penn Barry ESI-330



Wheel Diameter = 40.25 in.	Maximum BHP = 11.68 (RPM/1000) <sup>3</sup>
Outlet Area = 10.80 ft. <sup>2</sup>	Max. Motor Frame Size = 365T
Tip Speed, FPM = 10.54 x RPM	

Class	Fan Weight (Lbs.)	Wheel Weight (Lbs.)	WR <sup>2</sup> ① (Lbs. Ft. <sup>2</sup> )	Max. Wheel RPM ② (Steel or Aluminum)
I	999	184	221	1208
II	1052	212	230	1510