



# Building Performance Equipment, Inc.®

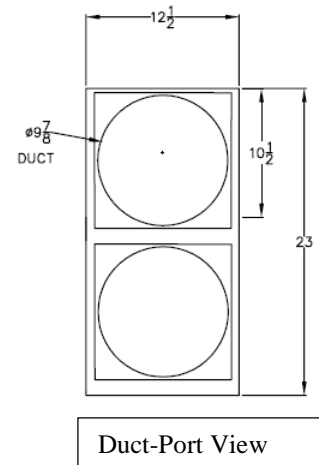
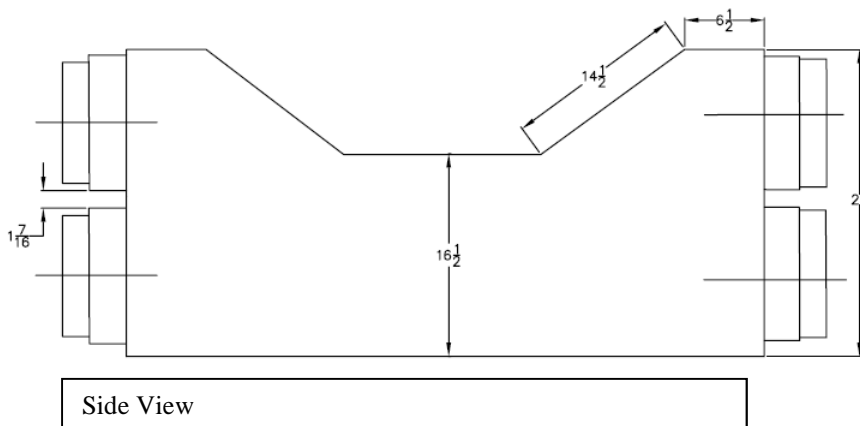
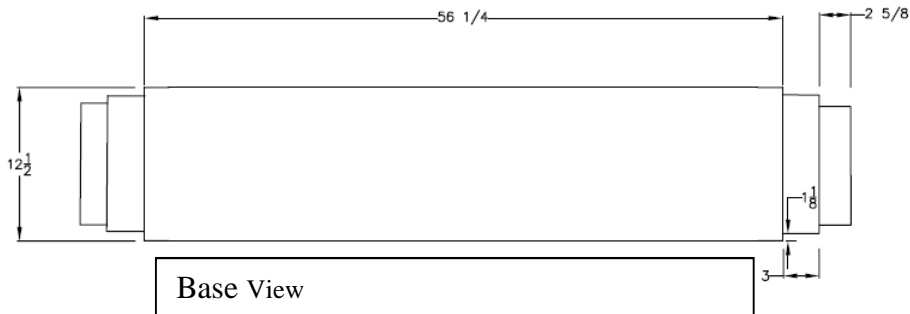
Sustainable, Reliable and Energy Efficient Ventilation Systems

## BPE-XE-MIR 500



### SPECIFICATIONS

<b>Model Number:</b> BPE-XE-MIR 500, Energy Recovery Module (ERM)				
<b>Ventilation Type:</b> Polymer Fixed Plate, Heat and Humidity Transfer				
<b>Typical Air Flow Range:</b> 200 to 550 cfm				
<b>V</b>	<b>Hz</b>	<b>Phase</b>	<b>Input Watts</b>	<b>FLA</b>
115	60	Single	274 @ 429 cfm	1.35 each fan
<b>Energy Efficiency Ratio (EER) - Summer</b> = BTUH/W = 31.53 (ARI 1060 at 95°F)				
<b>Energy Efficiency Ratio (EER) - Winter</b> = BTUH/W = 75.67 (ARI 1060 at 10°F)				
<b>Typical Fans:</b> Fantech FR-225, 274 Watts for two fans (NOTE: order fans separately)				
<b>Shipping Dimensions:</b> 60" x 28" x 14 1/2" (boxed)				
<b>Weight:</b> 152 lbs (Packaged), 82 lbs (ERM alone)				
<b>Note:</b> Typically no defrost controls are needed in conditions above -10 F and/or below 40 %RH. For colder or more humid applications call BPE Technical Support.				
Metal Galvanized Exterior with Reflectic Semi-Rigid Insulation : R5 RMAX				



[www.LowkWh.com](http://www.LowkWh.com)

Support: (201) 722.1414 | Fax: (201) 722-0999



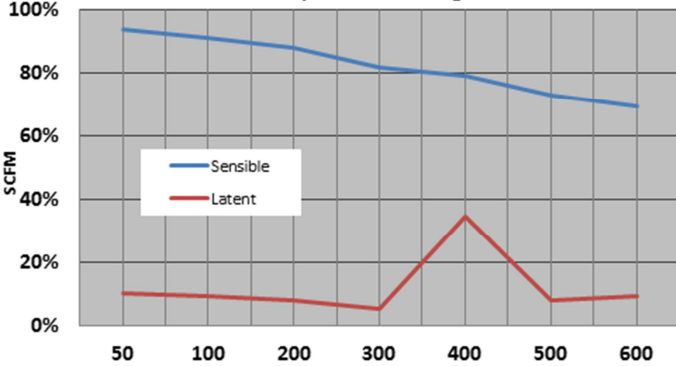
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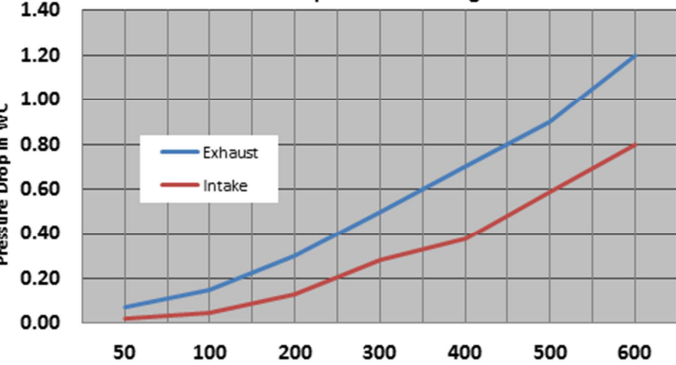
*Eco Air Anywhere®*

## BPE Performance

Efficiency Over Flow Range



Pressure Drop Over Flow Range



### Procedure for Fan Sizing:

1. Determine flow in CFM and efficiency desired.
2. If efficiency is not acceptable, step up to next size model.
3. Determine static pressure of both exhaust and fresh air intakes in ERM, duct, filters, louvers and diffusers.
4. Add margin or safety factor.
5. Consider adding speed controllers.

### ARI 1060 Testing

Project Name \_\_\_\_\_

Location \_\_\_\_\_

Application \_\_\_\_\_

### Design Conditions

Outdoor Air (FA)	_____ CFM	_____ in W.C.	_____ °F DB	_____ °F WB
Indoor Air (EA)	_____ CFM	_____ in W.C.	_____ °F DB	_____ °F WB
		_____ % Thermal Effectiveness	_____ % Latent Effectiveness	

### Winter

Outdoor Air (FA)	_____ CFM	_____ in W.C.	_____ °F DB	_____ °F WB
Indoor Air (EA)	_____ CFM	_____ in W.C.	_____ °F DB	_____ °F WB
		_____ % Thermal Effectiveness	_____ % Latent Effectiveness	

Component	Intake (Inches WC)	Exhaust (Inches WC)
Louver	_____	_____
Filter	_____	_____
Duct work	_____	_____
ERV	_____	_____
Diffuser	_____	_____
Total Static	_____	_____
Add 25% - Safety Factor	_____	_____
Fan Static =	_____	_____
Fan CFM =	_____	_____
Fan Manufacture	_____	_____
Fan Model	_____	_____

Email this sheet to [charles@lowkwh.com](mailto:charles@lowkwh.com) for equipment and fan selection.

Notes: