



# Building Performance Equipment, Inc.®

Sustainable, Reliable and Energy Efficient Ventilation Systems

## Model: BPE-XE-MIR-400-i

(Unitary Air-to-Air Energy Recovery Ventilator)

**Model Number:** BPE-XE-MIR 400-i, Energy Recovery Ventilator (ERV)

**Energy Transfer:** Polymer Fixed Plate, Heat and Humidity Transfer

**Air Flow Range:** 100-400 CFM

**Energy Efficiency Ratio (EER) – (Btu/W):** (ARI 1060 at 95°) - Summer = 31.53  
(ARI 1060 at 10°) - Winter = 75.67

**Net Weight:** 60 lbs.

**Dimensions:** 60" L x 10" W x 23" H

**External Finish:** Galvanized Steel Sheet

**Typical Fan:** Integral Fans, UL Listed

**Power Source:** 115 V - Single Phase – 60Hz

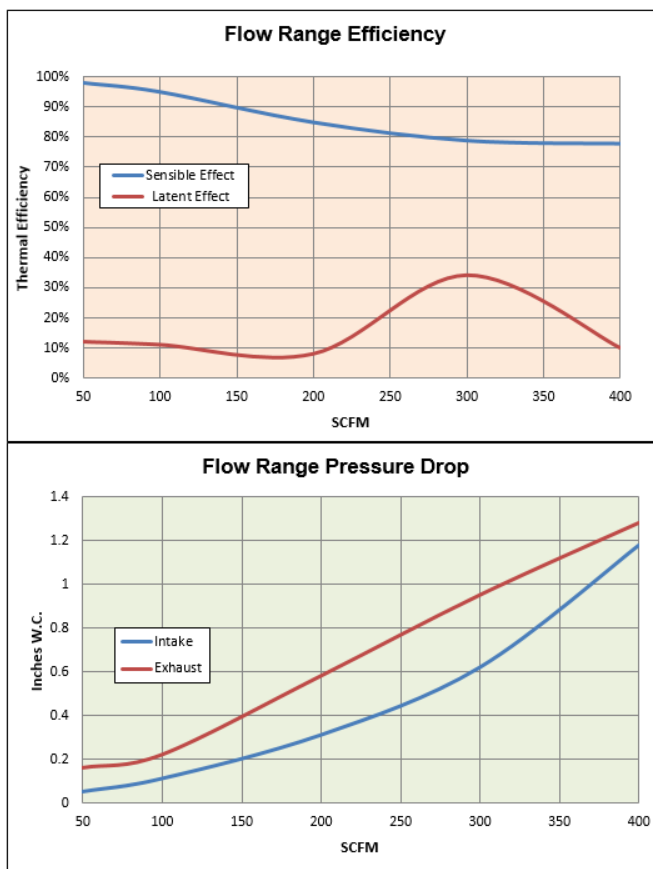
**Power Consumption:** 232 W @ 678 CFM/Fan

**Note:** For use in conditions below -10°F and/or 40% relative humidity. Contact BPE for application assistance. Interior aligned with Reflectix Semi-Rigid Insulations (R-5 RMAX). ASTM E84-01 Flame Spread Classification = 25, Smoke-Developed Classification = 30. Integral drain for very wet applications.

Includes: (2) Merv 8 HEPA Filters, (2) high-efficiency fans UL 507 Listed – Standard for Electric Fans, (2) Speed Controllers, and high-efficiency energy recovery module with single power cord included. High-performance 6-inch duct attachments and installation instructions.



**NO ELECTRICIAN NEEDED, PLUG AND PLAY!!!**



Building Performance Equipment

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ARI 1060 Testing

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

Date: \_\_\_\_\_

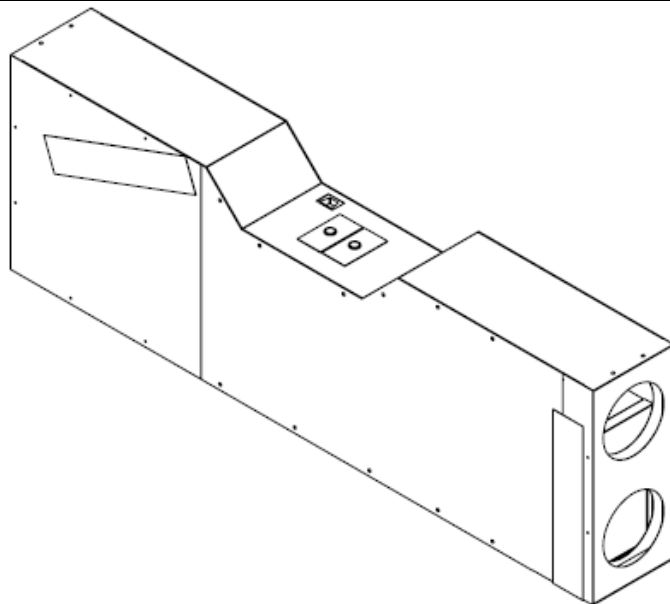
Location: \_\_\_\_\_

Application: \_\_\_\_\_

Contractor: \_\_\_\_\_

Design Conditions	Outdoor Air				Indoor Air				Thermal Efficiency	
	CFM	In. W.C.	°F WB	°F DB	CFM	In. W.C.	°F WB	°F DB	Sensible (%)	Latent (%)
Summer										
Winter										

Component	Intake (in. W.C.)	Exhaust (in. W.C.)	Notes
Louver			Note: Latent component can be adjusted or completely closed off for a sensible-only application. Please discuss with factory to adjust as needed.
Filter			
Duct work			
ERV			
Diffuser			
Total Static			
Add 25% - Safety Factor			
Fan Static			
Fan CFM			
Fan Manufacture			
Fan Model			



Unit Isometric

# VKM SERIES

## Inline Centrifugal Metal Fan



For high static pressure applications - ideal for bathroom exhaust, kitchen ventilation, living areas, whole house ventilation, duct boosting, workshops & smoking areas, offices, bars & restaurants and warehouses.

VENTS VKM series inline centrifugal duct fans are designed for residential and commercial ventilation applications. In-line configuration simplifies installation and offer maintenance free operation.

All VKM models are designed for standard diameter round ducting and range from 4" to 12" in size with airflows ranging up to 985 CFM. The fan's housing is made of steel with polymer coating. The quiet and efficient backward curved impeller is capable of operating in high-pressure systems.

The VKM series can eliminate many ventilation problems as they are designed to boost airflow through long or complex duct runs. The most common uses are bathroom exhaust range hood exhaust and duct boosting.

### FEATURES

- High air volume and static pressure applications.
- Quiet & efficient, vibration free operation.
- Durable and corrosion resistant casing.
- Reliable external rotor motor design.
- Permanently lubricated ball bearing motor for maintenance free operation.
- Automatic reset thermal overload protection.
- Pre-wired and supplied with mounting bracket for easy installation.
- Rated for continuous operation.
- Strong construction for long life.
- Five year warranty.



### PERFORMANCE SPECIFICATIONS

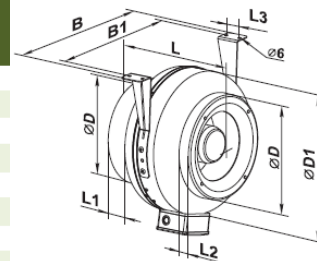
MODEL	RPM*	SONES	WATTS*	AMPS*	DUCT DIA.	CFM VS. STATIC PRESSURE (Pa) IN WG										VOLTS	
						0"	.125"	0.2"	.25"	.375"	0.5"	.75"	1"	1.25	1.5		2.5"
VKM 100	3000	6.91	108	0.90	4"	174	167	162	159	151	142	124	106	84	60	-	120
VKM 125	2950	6.8	112	0.97	5"	239	228	222	217	205	192	165	130	102	72	-	120
VKM 150	2400	6.6	110	0.90	6"	325	292	275	265	241	214	172	139	107	67	-	120
VKM 200	2520	7.6	195	1.63	8"	541	502	480	464	428	391	320	265	222	183	36	120
VKMS 200	2745	8.3	240	2.14	8"	657	640	632	625	608	590	550	498	434	370	112	120
VKM 250	2516	8.2	232	1.95	10"	678	638	613	599	550	479	408	340	292	248	90	120
VKM 305	2981	8.35	244	2.10	12"	784	756	738	727	698	669	611	542	480	428	168	120
VKMS 305	2320	8.42	272	2.42	12"	985	920	890	869	818	773	680	594	512	441	210	120

\* The parameters RPM, Watts, Amps are indicated at 0.2 in WG static pressure.

\*\* Special order - please call factory

### DIMENSIONS

MODEL	DIMENSIONS (Inches)								Weight (lbs)
	ØD	ØD1	B	B1	L	L1	L2	L3	
VKM 100	3 15/16"	10"	11 3/4"	10 3/16"	8 1/16"	13/16"	1"	1 3/16"	9.7
VKM 125	4 15/16"	10"	11 3/4"	10 3/16"	8 1/16"	13/16"	1"	1 3/16"	9.5
VKM 150	5 7/8"	11 15/16"	13 3/4"	12 3/16"	8 11/16"	1"	1"	1 3/16"	11.9
VKM 200	7 7/8"	13 9/16"	15 3/8"	13 3/4"	9 7/8"	1"	1 1/8"	1 9/16"	14.6
VKMS 200	7 7/8"	13 9/16"	15 3/8"	13 3/4"	9 7/8"	1"	1 1/8"	1 9/16"	14.6
VKM 250	9 13/16"	13 9/16"	15 3/8"	13 3/4"	9 3/16"	1"	1 1/4"	1 9/16"	16.1
VKM 305	12"	15 7/8"	17 3/4"	16 5/16"	10 1/4"	15/16"	1 3/16"	1 9/16"	17.6
VKMS 305	12"	15 7/8"	17 3/4"	16 5/16"	10 1/4"	15/16"	1 3/16"	1 9/16"	17.6

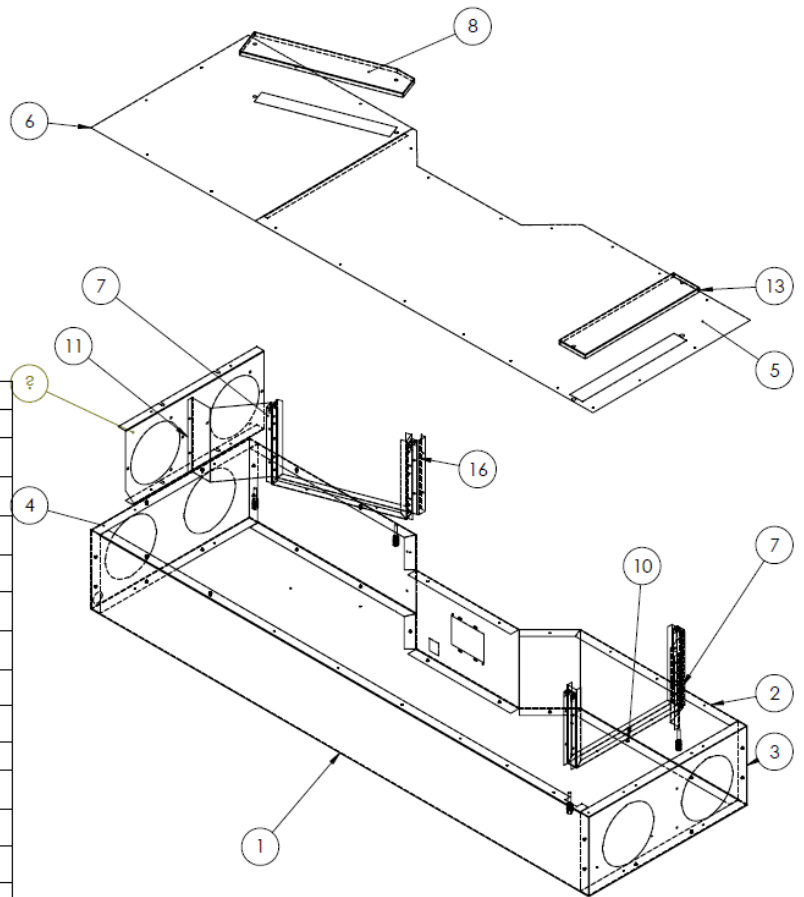


Typical Fan for 400i is a pre-wired 3 prong plug VKM 250 fan, 2 Fans needed.

Call Factory for special pressure drops or applications.

## Parts List

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200i block base REV C		1
2	200i block front u part REV C		1
3	200i block end cap REV C		1
4	200i block end cap hole REV C		1
5	200i block fixed cover REV C		1
6	200i block large cover REV C		1
7	200i block ftr chnl sprt REV C		4
8	200i block filter cover REV C		1
9	200i block fan mount REV D		1
10	SD42BS200		20
11	200i block long divider REV		1
12	200i block short divider REV C		1
13	200i block filter cover with bend REV C		1
15	200i block filter channel REV C		2
16	200i block short divider 2 REV C		1



## Filters are interchangeable between fresh air and exhaust

Merv 6 (Exhaust - Recommended)

Cost \$12.50 each plus shipping

Merv 8 (Fresh Air Supply – Optional)

Cost \$ 14.95 each plus shipping

Additional fans with plug-in electric connection

Call for Cost and sizing

