

ENERVEX®

RSV 160–450 CHIMNEY FAN

3912021 07.17

Product Information

Use

The RSV is a mechanical draft fan intended for use as part of a chimney, stack or vent system. The fan ensures a negative pressure in the entire chimney or stack system.

Description

The fan is installed at the chimney termination point and can be mounted vertically or side-wall vented. Discharge is vertical (horizontal, if side-wall vented) at a high velocity.

The fan housing is hinged and the top can be opened for easy service and access to the stack.

The RSV fan is for use with gas, LP gas, and oil fired heating appliances. It is approved for use with category I, II, III and IV appliances in systems where flue gas temperatures do not exceed 625°F (329°C) for intermittent operation and 575°F (302°C) for continuous operation.

The RSV is a component in the CASV, Chimney Automation System.

Material

The fan housing is 3/16" cast aluminum. One coat of grey hammerpaint is applied for added corrosion resistance.

The backwards curved impeller is cast aluminum. The impeller is dynamically and statically balanced with permanently attached balancing weights.

Motor

RSV 160-315: Single phase, split capacitor, totally enclosed, Class F insulated, IP54 Protection Class. Sealed ball bearings. Variable Speed. Thermal overload protection.

RSV 400-450: Three phase totally enclosed TEFC motor, Class H insulated. Sealed ball bearings. Variable Speed. Thermal overload protection.

Standard Equipment

- 2"x4" or 4"x4" junction box with cover and conduit
- Bird Screen

Optional Equipment

- 5 Amp or 8 Amp Fan Speed Control
- EDrive
- EBC 24 Modulating Pressure Controller
- EBC 30/31/35 Modulating Pressure Controller
- BDC 8 Fan Control



Intertek
ETL File 514733

Specifications are subject to change without notice.



Listings

The RSV 160-450 Chimney Fan is ETL Listed in the U.S. and Canada under file no. 514733:

- UL 705 Standard for Power Ventilators
- UL 378 Standard for Draft Equipment
- CSA-CAN3-B255-M81-Mechanical Flue Gas Exhausters

Complies with and meets Type B, Spark Resistant Construction per AMCA standard 99-0401 classifications of Spark Resistant Construction.

Approvals

- CE Compliant
- The Commonwealth of Massachusetts
- The city of Los Angeles, CA (RR 8474)
- OSHPD Preapproval Of Manufacturer's Certification (OPM) No. OSP-0343-10
- Manufactured at ISO9001 certified plant

Warranty

- 2-Year Factory Warranty on entire fan
- 10-Year Warranty Against Corrosion Perforation

Complete warranty conditions are available from ENERVEX Inc.

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ENERVEX®
VENTING DESIGN SOLUTIONS

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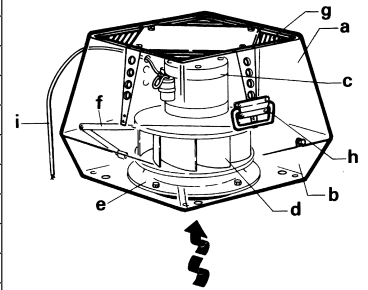
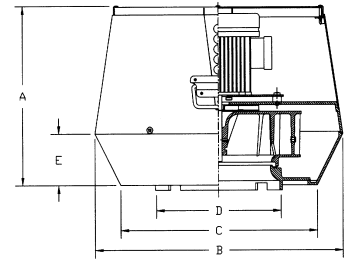
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Product Information

Specifications

Model		RSV 160	RSV 200	RSV 250	RSV 315	RSV 400	RSV 450	
Discharge		Vertical						
Fan Type		Centrifugal Impeller						
Max. Discharge Velocity	FPM	1,638	1,729	2,222	2,771	2,752	4,134	
Actual Discharge Velocity	FPM	4.7 x CFM	2.9 x CFM	1.9 x CFM	1.2 x CFM	1.03 x CFM	1.03 x CFM	
Voltage	VAC	1x120			3x208-240 / 3x400			
RPM		1600			1720			
Amps	A	0.5	1.4	2.9	5.8	3.5/1.8	6.5/3.6	
Power Ratings	kW	0.025	0.10	0.16	0.35	0.75	1.5	
	HP	0.04	0.15	0.2	0.5	1	2	
Weight	lbs	28	47	60	88	127	155	
	kg	12	18	26	35	58	70	
Dimensions	A	in / mm	9.85 / 250	11.03 / 280	13.20 / 335	14.97 / 380	16.94 / 430	23.23 / 590
	B x B	in / mm	12.21 / 310	15.37 / 390	19.11 / 485	22.85 / 580	25.61 / 650	25.61 / 650
	C x C	in / mm	9.46 / 240	12.22 / 310	15.17 / 385	18.32 / 465	20.69 / 525	20.69 / 525
	Ø D	in / mm	8.63 / 219	7.88 / 200	9.85 / 250	12.41 / 315	15.76 / 400	15.76 / 400
	E	in / mm	2.76 / 70	3.15 / 80	3.94 / 100	4.53 / 115	5.12 / 130	8.54 / 217
Motor Starter Required		No	No	No	No	Yes ¹⁾	Yes ¹⁾	
Variable Speed Motor		Yes	Yes	Yes	Yes	Yes	Yes	
Temperature Rating	Interm.	625°F/329°C						
	Cont.	575°F/302°C						

1) NOT required if using a VFD.

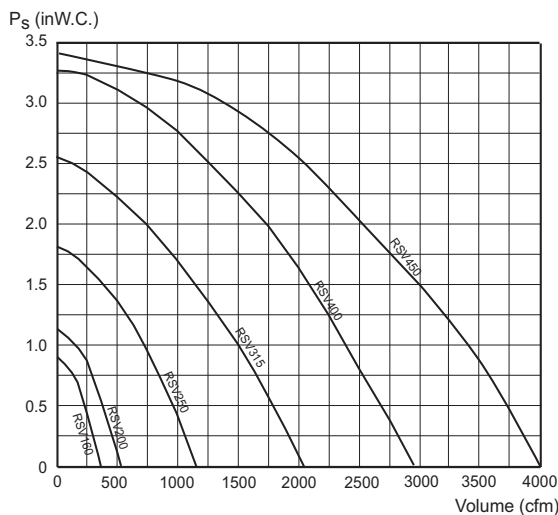


- a** Top Section
- b** Bottom Section
- c** Motor
- d** Centrifugal Impeller
- e** Inlet for Impeller
- f** Locking Hinge
- g** Bird Screen
- h** Carrying Handle
- i** Wiring Conduit

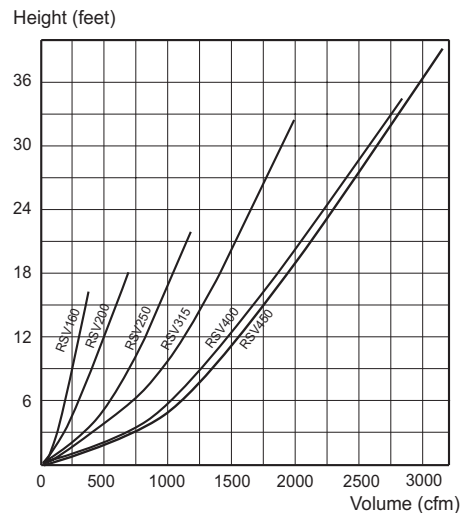
Sound Diagram

Model	Lw dB (measured in accordance with ISO 3744)							Lp dB(A)
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	
RSV 160	57	55	54	49	40	35	26	26
RSV 200	58	60	62	61	56	44	37	36
RSV 250	64	68	66	65	61	49	45	41
RSV 315	71	75	70	73	68	57	52	48
RSV 400	76	80	75	79	74	62	57	53
RSV 450	79	83	78	78	77	65	60	56

Capacity



Plume Height



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