

# ENERVEX®

## RSV 450 CHIMNEY FAN

010.1054.1221 12.21

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 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

### Listings



**Intertek**

ETL File 514733

Specifications are subject to change without notice.



The RSV 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.

ENERVEX Inc.  
1685 Bluegrass Lakes Parkway  
Alpharetta, GA 30004  
USA

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**ENERVEX®**  
VENTING DESIGN SOLUTIONS

A stylized red logo consisting of three vertical bars of varying heights, resembling a flame or a vent stack, positioned to the right of the company name.

# ENERVEX® RSV 450 CHIMNEY FAN

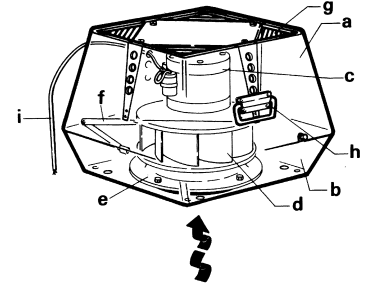
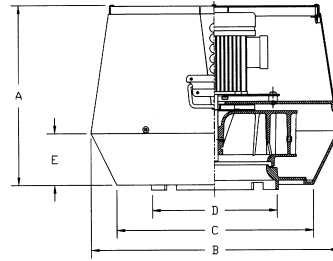
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Product Information

## Specifications

Model		RSV 450	
Discharge		Vertical	
Fan Type		Centrifugal Impeller	
Max. Discharge Velocity	FPM	4,134	
Actual Discharge Velocity	FPM	1.03 x CFM	
Voltage	VAC	3x208-240 / 3x400	
RPM		1720	
Amps	A	6.5/3.6	
Power Ratings	kW	1.5	
	HP	2	
Weight	lbs	155	
	kg	70	
Dimensions	A	in / mm	23.23 / 590
	B x B	in / mm	25.61 / 650
	C x C	in / mm	20.69 / 525
	Ø D	in / mm	15.76 / 400
	E	in / mm	8.54 / 217
Motor Starter Required		Yes <sup>1)</sup>	
Variable Speed Motor		Yes	
Temperature Rating	Interm.	625°F/329°C	
	Cont.	575°F/302°C	

1) NOT required if using a VFD.

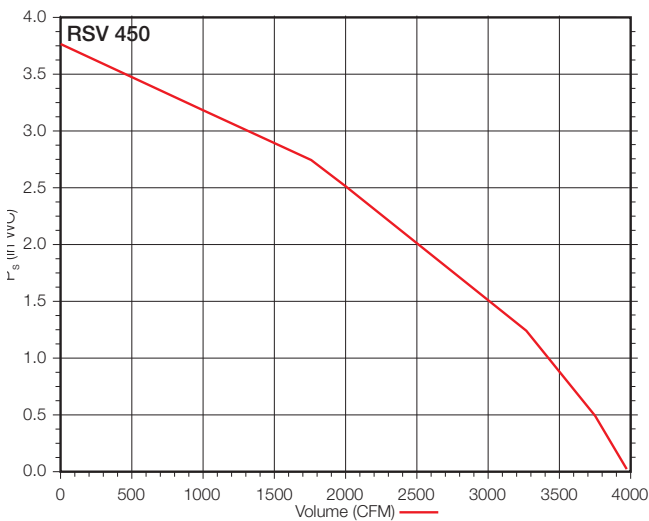


- a** Top Section
- b** Bottom Section
- c** Motor
- d** Centrifugal Impeller
- e** Inlet for Impeller
- f** Locking Hinge
- g** Bird Screen
- h** Carrying Handle
- i** Wiring Conduit

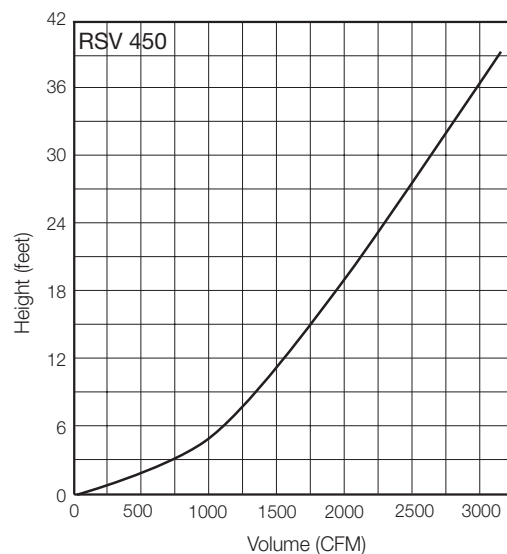
## Sound Diagram

Model	Lw dB (measured in accordance with ISO 3744)							Lp dB(A)
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	
RSV 450	79	83	78	78	77	65	60	56

## Capacity



## Plume Height



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