

# ENERVEX®

## GSV 200-450 GREASE FAN

3922012 11.21

Product Information

### Use

The GSV is part of a mechanical draft fan for intended use as part of a restaurant kitchen exhaust system and grease application.

### Description

Ensures a negative pressure in the entire duct or vent system. Discharges vertically (horizontally, if side-wall mounted) at a high velocity.

The fan housing is hinged and the top can be opened for easy service and access to stack. The GSV model is approved for temperatures up to 575°F (300°C).

Exhaust fan for installation at the duct or vent termination point, vertical or side-wall mounted.

### Material

Housing is made of cast aluminum with a thickness of 3/16" and is corrosion resistant. One coat of grey hammerpaint finish is applied.

Backwards curved impeller of cast aluminum. Dynamically and statically balanced with permanently attached balancing weights.

### Motor

GSV 200-315: Single phase, split capacitor, totally enclosed, Class F insulated, IP54 Protection Class. Sealed ball bearings. Variable Speed. Thermal overload protection.

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

### Standard Equipment

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

### Optional Equipment

- 5 Amp or 8 Amp Fan Speed Control
- Gasket
- Roof Curb
- EDrive Motor Controller



### Listings

The GSV 200-450 Grease Fan is ETL Listed in the U.S. and Canada under file no. 514733:

- UL 705 Standard for Power Ventilators
- UL 705 Standard Supplement SC (formerly UL 762) for Power Roof Ventilators for Restaurant Exhaust Appliances
- ULC-S645-93 Standard for Power Roof Ventilators for Commercial and Institutional Kitchen Exhaust Systems

### 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 the entire fan
- 10-Year Warranty Against Corrosion Perforation

Complete warranty conditions are available from ENERVEX Inc.



Intertek

ETL File 514733

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

P: 770.587.3238  
F: 770.587.4731  
T: 800.255.2923  
info@enervex.com  
www.enervex.com

**ENERVEX®**  
VENTING DESIGN SOLUTIONS

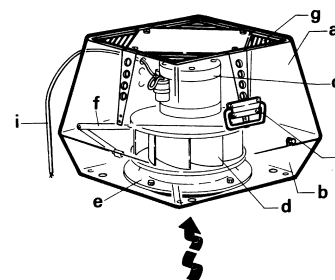
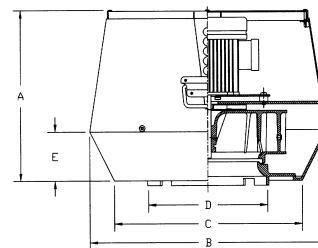
# ENERVEX® GSV 200-450 GREASE FAN

3922012 11.21

Product Information

## Specifications

| Model                     |          | GSV 200              | GSV 250     | GSV 315     | GSV 400             | GSV 450           |             |
|---------------------------|----------|----------------------|-------------|-------------|---------------------|-------------------|-------------|
| Discharge                 |          | Vertical             |             |             |                     |                   |             |
| Fan Type                  |          | Centrifugal Impeller |             |             |                     |                   |             |
| Max. Discharge Velocity   | FPM      | 1,729                | 2,222       | 2,771       | 2,752               | 4,134             |             |
| Actual Discharge Velocity | FPM      | 2.9xCFM              | 1.9xCFM     | 1.2xCFM     | 1.03xCFM            | 1.03xCFM          |             |
| Voltage                   | V AC     | 1x120                |             |             | 3x208-240/3x380-420 |                   |             |
| RPM                       |          | 1600                 |             |             | 1720                | 1720              |             |
| Amps                      | A        | 1.4                  | 2.9         | 5.8         | 3.5 / 1.8           | 6.5 / 3.8         |             |
| Power Ratings             | kW / HP  | 0.10 / 0.15          | 0.16 / 0.2  | 0.35 / 0.5  | 0.75 / 1            | 1.5 / 2           |             |
| Weight                    | lbs / kg | 47 / 18              | 60 / 26     | 92 / 42     | 127 / 58            | 155 / 70          |             |
| Dimensions                | A        | in / mm              | 11.03 / 280 | 13.20 / 335 | 16.94 / 430         | 16.94 / 430       | 23.23 / 590 |
|                           | B x B    | in / mm              | 15.37 / 390 | 19.11 / 485 | 25.61 / 650         | 25.61 / 650       | 25.61 / 650 |
|                           | C x C    | in / mm              | 12.22 / 310 | 15.17 / 385 | 18.32 / 465         | 20.69 / 525       | 20.69 / 525 |
|                           | D Ø      | in / mm              | 7.88 / 200  | 9.85 / 250  | 15.76 / 400         | 15.76 / 400       | 15.76 / 400 |
|                           | E        | in / mm              | 3.15 / 80   | 3.94 / 100  | 5.12 / 130          | 5.12 / 130        | 8.54 / 217  |
| Soft Start Required       |          | No                   | No          | No          | Yes <sup>1)</sup>   | Yes <sup>1)</sup> |             |
| Variable Speed Motor      |          | Yes                  | Yes         | Yes         | Yes                 | Yes               |             |
| FA Sones                  |          |                      | 3.9         | 6.3         | 7.8                 | 8.3               |             |
| Temperature Rating        | Interm.  | 575°F/300°C          |             |             |                     |                   |             |
|                           | Cont.    | 482°F/250°C          |             |             |                     |                   |             |

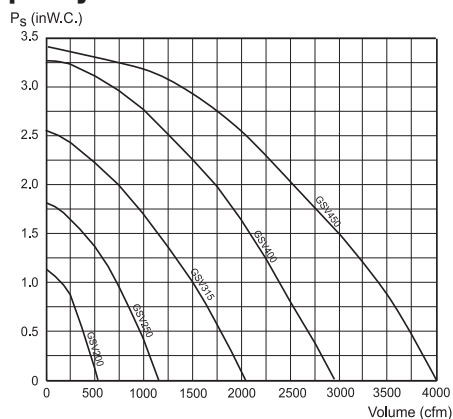


- a** Top Section
- b** Bottom Section
- c** Motor
- d** Centrifugal Impeller
- e** Inlet for Impeller
- f** Locking Hinge
- g** Bird Screen
- h** Carrying Handle
- i** Wiring Conduit

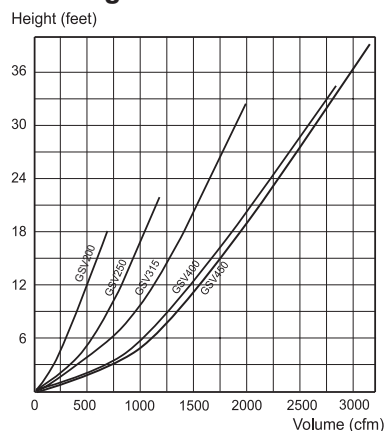
## Sound Diagram

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

## Capacity



## Plume Height



Specifications are subject to change without notice.

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

P: 770.587.3238  
F: 770.587.4731  
T: 800.255.2923  
info@enervex.com  
www.enervex.com

**ENERVEX®**  
VENTING DESIGN SOLUTIONS