



TM

**TRIANGLE ENGINEERING**

# INDUSTRIAL WALL FANS



**V SERIES**  
Commercial



**VI SERIES**  
Industrial





# Patented “VI” SERIES Industrial

For moving large volumes of air

- ▲ Standard units from 1/3 to 5 hp (4,100 to 43,100 cfm)
- ▲ Extra heavy duty components and frame with durable powder coat finish
- ▲ Unique fastening system for easy field adjustment

## Triangle’s Exclusive “X-Wing” Belt Tensioner

Incorporates the motor and bearing mounts along with a super efficient Belt Tensioner to enhance the life of the motor.

It is standard equipment on the VI 2412 through the VI 4816. Fans with motors larger than 1½ h.p. have the standard stationary motor and bearing mounts.



Patent #6,190,140

| Model No. | Blade Dia. | Motor CFM | RPM | HP    | Amps     | Volts   | Ship Wt. (lbs) | Overall Sq. Size | Depth |
|-----------|------------|-----------|-----|-------|----------|---------|----------------|------------------|-------|
| VI 2412   | 24         | 4,100     | 705 | 1/3   | 6.5      | 115     | 101            | 30 3/4"          | 20"   |
| VI 3013   | 30         | 9,000     | 742 | 1/2   | 11.0     | 115     | 113            | 34 3/4"          | 20"   |
| VI 3014   | 30         | 10,000    | 732 | 3/4   | 13/6.5   | 115/230 | 117            | 34 3/4"          | 20"   |
| VI 3613   | 36         | 10,400    | 550 | 1/2   | 11       | 115     | 138            | 40 3/4"          | 20"   |
| VI 3614   | 36         | 11,100    | 540 | 3/4   | 13/6.5   | 115/230 | 146            | 40 3/4"          | 20"   |
| VI 3615   | 36         | 12,100    | 555 | 1     | 11/5.5   | 115/230 | 164            | 40 3/4"          | 20"   |
| VI 4213   | 42         | 13,000    | 500 | 1/2   | 11       | 115     | 151            | 46 3/4"          | 20"   |
| VI 4214   | 42         | 14,600    | 565 | 3/4   | 13/6.5   | 115/230 | 153            | 46 3/4"          | 20"   |
| VI 4215   | 42         | 15,900    | 475 | 1     | 11/5.5   | 115/230 | 164            | 46 3/4"          | 20"   |
| VI 4216   | 42         | 17,100    | 450 | 1 1/2 | 5.6/2.8  | 230/460 | 161            | 46 3/4"          | 20"   |
| VI 4814   | 48         | 18,900    | 455 | 3/4   | 13/6.5   | 115/230 | 187            | 52 3/4"          | 20"   |
| VI 4815   | 48         | 20,500    | 470 | 1     | 11/5.5   | 115/230 | 198            | 52 3/4"          | 20"   |
| VI 4816   | 48         | 20,800    | 480 | 1 1/2 | 5.6/2.8  | 230/460 | 200            | 52 3/4"          | 20"   |
| VI 4817   | 48         | 21,100    | 605 | 2     | 6.4/3.2  | 230/460 | 267            | 52 3/4"          | 24"   |
| VI 4818   | 48         | 23,700    | 610 | 3     | 8.4/4.2  | 230/460 | 291            | 52 3/4"          | 30"   |
| VI 5417   | 54         | 25,500    | 615 | 2     | 6.4/3.2  | 230/460 | 338            | 62 7/8"          | 30"   |
| VI 5418   | 54         | 30,100    | 620 | 3     | 8.4/4.2  | 230/460 | 343            | 62 7/8"          | 30"   |
| VI 5419   | 54         | 37,200    | 650 | 5     | 13.8/6.9 | 230/460 | 343            | 62 7/8"          | 30"   |
| VI 6017   | 60         | 30,200    | 611 | 2     | 6.4/3.2  | 230/460 | 410            | 68 7/8"          | 30"   |
| VI 6018   | 60         | 34,000    | 610 | 3     | 8.4/4.2  | 230/460 | 418            | 68 7/8"          | 30"   |
| VI 6019   | 60         | 43,100    | 650 | 5     | 13.8/6.9 | 230/460 | 422            | 68 7/8"          | 30"   |

# “V” SERIES

## Commercial

For intake or exhaust applications where a quiet, economical commercial grade fan is needed.



- ▲ Units are available from 24" to 48" with 1/3 to 3/4 HP motors, delivering 3,900 to 18,200 CFM
- ▲ All welded construction with a durable powder coat finish
- ▲ A wide paddle, deep-pitch blade assembly delivers maximum performance with whisper-quiet operation
- ▲ Triangle's exclusive automatic belt tensioning system extends motor life and eliminates the need for belt adjusting

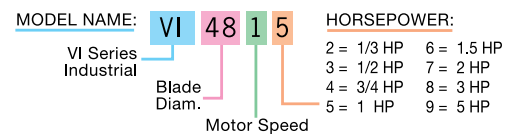


| Model No. | Blade Dia. | Motor CFM | RPM | HP  | Amps   | Volts   | Ship Wt. (lbs) | Overall Sq. Size | Mounting Lip |
|-----------|------------|-----------|-----|-----|--------|---------|----------------|------------------|--------------|
| V 2412    | 24         | 3,900     | 550 | 1/3 | 6.5    | 115     | 50             | 30"              | 1 1/2"       |
| V 3012    | 30         | 6,300     | 525 | 1/3 | 6.5    | 115     | 51             | 34"              | 1 1/2"       |
| V 3013    | 30         | 9,500     | 605 | 1/2 | 11     | 115     | 58             | 34"              | 2"           |
| V 3613    | 36         | 10,900    | 520 | 1/2 | 11     | 115     | 61             | 40"              | 2"           |
| V 4213    | 42         | 14,300    | 500 | 1/2 | 11     | 115     | 93             | 46"              | 2"           |
| V 4813    | 48         | 17,100    | 365 | 1/2 | 11     | 115     | 105            | 52"              | 2"           |
| V 4814    | 48         | 18,200    | 410 | 3/4 | 13/6.5 | 115/230 | 135            | 52"              | 2"           |

▲ **NOTE:** To order either series as **INTAKE FANS** specify by adding an "R" (for reverse) before the model number.

- ▲ Standard motors are open drip-proof (ODP) 60 Hz single phase unless otherwise specified.
- ▲ Two-speed motors available on V series fans through 1/2 hp. When fan is equipped with two-speed motor, cfm is reduced approximately 32% at low speed.
- ▲ Totally enclosed and explosion proof motors are available for all VI series fans.
- ▲ Intake fans require a "RIWS Shutter" with operator.
- ▲ Contact factory for complete specifications and pricing on special requirements.

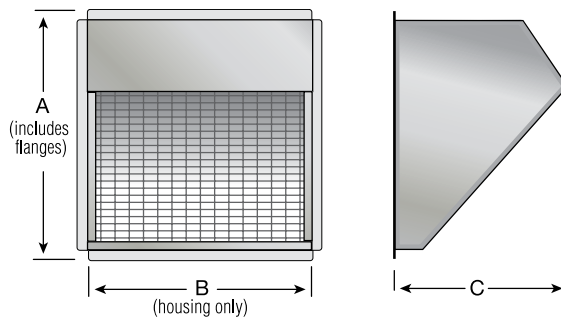
### FAN MODEL NUMBER EXPLANATION



# All Weather HOODS

For VI, V and PFG  
Series Fans

- ▲ All Galvanized 18-gauge steel with 1" x 2" bird screens



| Model | For Fan Size | DIMENSIONS              |                         |     |
|-------|--------------|-------------------------|-------------------------|-----|
|       |              | A sq.<br>(inc. flanges) | B sq.<br>(housing only) | C   |
| RH 24 | 24"          | 34¼"                    | 31¼"                    | 31" |
| RH 30 | 30"          | 37¼"                    | 34¾"                    | 33" |
| RH 36 | 36"          | 43¼"                    | 40¾"                    | 37" |
| RH 42 | 42"          | 49¼"                    | 46¾"                    | 41" |
| RH 48 | 48"          | 55¼"                    | 52¾"                    | 45" |
| RH 54 | 54"          | 65¼"                    | 62¾"                    | 52" |
| RH 60 | 60"          | 71¼"                    | 68¾"                    | 57" |

# FAN GUARDS



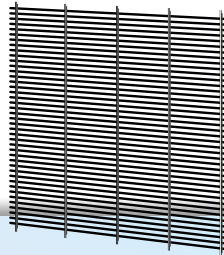
## V SERIES

14" wide, 18 gauge, galvanized housing, with black powder coat finished guard

| Model No. | For Fan | Shipping Weight |
|-----------|---------|-----------------|
| VG 24     | 24"     | 43              |
| VG 30     | 30"     | 50              |
| VG 36     | 36"     | 58              |
| VG 42     | 42"     | 65              |
| VG 48     | 48"     | 73              |

## VI SERIES

Guard has a black powder coat finish



| Model No. | For Fan | Shipping Weight |
|-----------|---------|-----------------|
| VIG 24    | 24"     | 21              |
| VIG 30    | 30"     | 24              |
| VIG 36    | 36"     | 27              |
| VIG 42    | 42"     | 31              |
| VIG 48    | 48"     | 34              |
| VIG 54    | 54"     | 38              |
| VIG 60    | 60"     | 45              |



# Heavy Duty Industrial Automatic WALL SHUTTERS



Shutters automatically open and close with fan operation.  
Available for 24" to 60" fans.

- ▲ Extruded aluminum mill finish blades for corrosion resistance
- ▲ Durable bronze bushings for smooth, maintenance free operation
- ▲ IWS 54" and 60" are double-panneled for added strength
- ▲ Optional electric motor operators are available for all sizes



| Model No. | Fan Size                              |                 | Outside Dimension                       | Inside Dimension | Depth | Ship Wt. (lbs) |
|-----------|---------------------------------------|-----------------|---|------------------|-------|----------------|
| IWS 24    | 24"                                   |                 | 33 $\frac{3}{8}$ " x 33 $\frac{3}{8}$ " | 31" x 31"        | 4"    | 26             |
| IWS 30    | 30"                                   |                 | 36 $\frac{3}{8}$ " x 36 $\frac{3}{8}$ " | 34" x 34"        | 4"    | 29             |
| * IWS 33  | 36"                                   |                 | 39 $\frac{3}{8}$ " x 39 $\frac{3}{8}$ " | 37" x 37"        | 4"    | 33             |
| IWS 36    | 36"                                   | 24"<br>thru     | 42 $\frac{3}{8}$ " x 42 $\frac{3}{8}$ " | 40" x 40"        | 4"    | 37             |
| * IWS 39  | 42"                                   | 48"             | 45 $\frac{3}{8}$ " x 45 $\frac{3}{8}$ " | 43" x 43"        | 4"    | 39             |
| IWS 42    | 42"                                   | Single<br>Panel | 48 $\frac{3}{8}$ " x 48 $\frac{3}{8}$ " | 46" x 46"        | 4"    | 46             |
| * IWS 45  | 48"                                   |                 | 51 $\frac{3}{8}$ " x 51 $\frac{3}{8}$ " | 49" x 49"        | 4"    | 43             |
| IWS 48    | 48"                                   |                 | 54 $\frac{3}{8}$ " x 54 $\frac{3}{8}$ " | 52" x 52"        | 4"    | 55             |
| IWS 54    | 54"                                   |                 | 63 $\frac{3}{8}$ " x 63 $\frac{3}{8}$ " | 61" x 61"        | 4.5"  | 48             |
| IWS 60    | 60"                                   | Double<br>Panel | 69 $\frac{3}{8}$ " x 69 $\frac{3}{8}$ " | 67" x 67"        | 4.5"  | 56             |
| IWS 3187  | Shutter Operator w/linkage: IWS 24-48 |                 | Amps: .5/.25                            | Volts: 115/230   |       | 3              |
| IWS 887   | Shutter Operator w/linkage: IWS 54-60 |                 | Amps: .5/.25                            | Volts: 115/230   |       | 5              |

**NOTE:** To order as an INTAKE SHUTTER, put an "R" in front of the model number.

\*Mounts to fan housing - consult factory.

Specifications Subject to Change Without Notice. Printed in USA 12/05



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