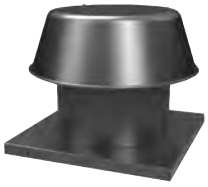


## GRAVITY VENTILATORS SIZING



RCXII (sizes 6-20)



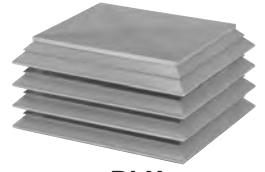
RCXII (sizes 24-36)



RCXII-SF



BGH



RLX

### Sizing

The tables shown offer quick selections at common static pressure points. Selection choices vary widely due to field conditions and size choices. The following formulas are useful in making selections:

$$(A) \text{ Throat Area} = \frac{\text{CFM}}{\text{Velocity}}$$

$$(B) \text{ Throat Velocity} = \frac{\text{CFM}}{\text{Throat Area}}$$

$$(C) \text{ Velocity Pressure} = \left[ \frac{\text{Throat Velocity}}{4005} \right]^2$$

(D) Determine new static pressure when CFM is known:

$$SP_2 = SP_1 \times \left[ \frac{\text{CFM}_2}{\text{CFM}_1} \right]^2$$

CFM<sub>2</sub> = Specified airflow

CFM<sub>1</sub> = Known CFM from table selection

SP<sub>2</sub> = Static pressure to be determined

SP<sub>1</sub> = Static pressure in table corresponding to CFM

(Ex.) Determine new unknown CFM when static pressure is known:

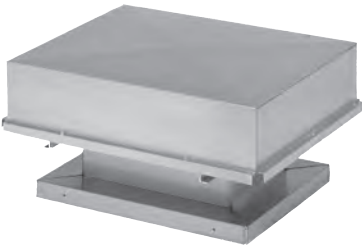
$$\text{CFM}_2 = \text{CFM}_1 \times \left[ \sqrt{\frac{SP_2}{SP_1}} \right]$$

CFM<sub>2</sub> = Unknown

CFM<sub>1</sub> = Catalog CFM

SP<sub>2</sub> = New static pressure where CFM is unknown

SP<sub>1</sub> = Known static pressure from known CFM (CFM<sub>1</sub>)



### **MODEL FEATURES**

- Exhaust or Supply air up to 90,000 CFM in static pressure applications up to .25" w.g.
- Constructed of .050" aluminum
- Assembled with standing seams and snap-lock seams that are secured with spot welds
- Modern, low silhouette design that blends roof lines and other equipment

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### **MODEL OVERVIEW**

Model BGH gravity ventilator offers a modern low silhouette design that blends with roof lines and other equipment. Designed for maximum airflow passage and weathertight integrity, Model BGH comes in either intake or relief models in aluminum or galvanized finishes. An extensive range of sizes are offered with many standard and optional features. Exhaust models have a 1:1 ratio of hood perimeter opening to throat area and supply models incorporate a 2:1 ratio.

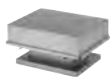
To meet other size or ventilation capacity requirements, in addition to those listed in the following tables, custom sized units are available upon request. Consult your representative or factory for specific details and performance capabilities.

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### **CONSTRUCTION/SPECIFICATION CHECKLIST**

- Generously sized throat and hood perimeter openings for low resistance and more efficient airflow.
- Hood is constructed of .050" aluminum and assembled with standing seams and snap lock seams that are secured with spot welds. No screws or rivets to break or work loose.
- Hood is reinforced and braced for extra rigidity and resistance to wind damage. Utilizes channels and structural angles throughout.
- All hoods are fabricated with 1/2" x 1/2" mesh galvanized welded screen as standard equipment. Screens are attached to full hood perimeter opening with stainless steel or zinc plated fasteners. Screens are omitted when hoods are equipped with filters.
- Full 360° perimeter hood opening for total wind action from any direction for more reliable airflow performance.
- Curb base constructed of .080" aluminum. All corners are miter cut. All seams and corners are continuous welded for strength and water tightness.
- Hoods have a special deflector flange on edge of perimeter opening for added protection against rain and snow. Wide overhang for storm protection.

**Industry best 5 year fan housing warranty**



## **OPTIONS/ACCESSORIES**

**Aluminum Birdscreens:** Consists of .060" thick 1/2" x 1" diamond shape expanded aluminum. Attached to the full perimeter opening of the hood with stainless or zinc plated fasteners.

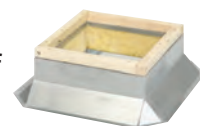
**Hinged Hood:** For easy access to backdraft dampers and to service filters and screens.

**Insulated Hood:** To reduce condensation drip. Offered in rubberized anti-condensate undercoating or as 1" thick fiberglass insulation.

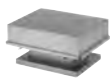
**Filters:** Offered as 1" or 2" thick permanent type aluminum mesh mounted for easy cleaning and attached to full perimeter opening of the hood. Birdscreens are omitted when equipped with filters. *Note:* Add .17" to the area listed in the tables when using filters on AIR INTAKE ventilators.

**Insect Screen:** Consists of 18 mesh aluminum screen. Attached to the full perimeter opening of the hood. *Note:* When using insect screens on EXHAUST ventilators add .10" to the area listed in the tables. For INTAKE ventilators add .05" to the listed area.

**Roof Curb:** Prefabricated heavy-gauge galvanized steel, welded construction, 12" high (other heights are also available) with 1-1/2" wood nailer. Assures perfect fit of to roof opening. Options include burglar bars, single or double pitch construction and hinged curbs for easy duct access.

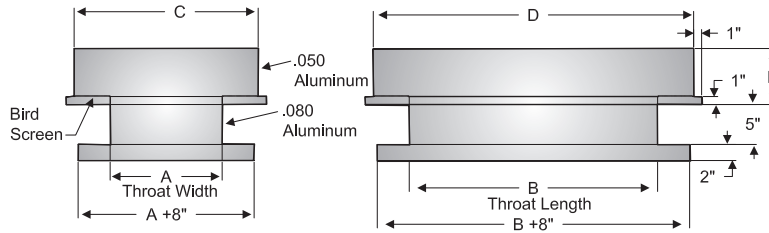


**Special Coatings:** for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.



## PERFORMANCE/DIMENSIONS

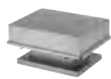
### Gravity Relief 1:1 Ratio



| Throat Area | Dimensional Data |           |    |   | Throat Velocity in FPM @ Static Pressure - Relief |                                |      |      |       |
|-------------|------------------|-----------|----|---|---|--------------------------------|------|------|-------|
|             | Throat Size      | Hood Size |    |   | 536   | 758                            | 848  | 1073 | 1200  |
|             |                  | A x B     | C  | D | E   | CFM @ Static Pressure - Relief |      |      |       |
|             |                  |           |    |   | .050  | .100                           | .125 | .200 | .250  |
| 1.00        | 12 x 12          | 18        | 18 | 7 | 536   | 758                            | 848  | 1073 | 1200  |
| 1.50        | 12 x 18          | 19        | 25 | 7 | 804   | 1137                           | 1272 | 1610 | 1800  |
| 2.00        | 12 x 24          | 20        | 32 | 7 | 1072  | 1516                           | 1696 | 2146 | 2400  |
| 2.50        | 12 x 30          | 20        | 38 | 7 | 1340  | 1895                           | 2120 | 2683 | 3000  |
| 3.00        | 12 x 36          | 21        | 45 | 7 | 1608  | 2274                           | 2544 | 3219 | 3600  |
| 3.50        | 12 x 42          | 22        | 52 | 7 | 1876  | 2653                           | 2968 | 3756 | 4200  |
| 4.00        | 12 x 48          | 23        | 57 | 7 | 2144  | 3032                           | 3392 | 4292 | 4800  |
| 1.36        | 14 x 14          | 20        | 20 | 7 | 730   | 1032                           | 1154 | 1460 | 1633  |
| 1.75        | 14 x 18          | 22        | 22 | 7 | 938   | 1327                           | 1484 | 1878 | 2100  |
| 2.33        | 14 x 24          | 23        | 33 | 7 | 1251  | 1769                           | 1979 | 2504 | 2800  |
| 2.92        | 14 x 30          | 23        | 39 | 7 | 1563  | 2211                           | 2473 | 3130 | 3500  |
| 3.50        | 14 x 36          | 23        | 45 | 7 | 1876  | 2653                           | 2968 | 3756 | 4200  |
| 4.08        | 14 x 42          | 24        | 52 | 7 | 2189  | 3095                           | 3463 | 4381 | 4900  |
| 4.67        | 14 x 48          | 24        | 58 | 7 | 2501  | 3537                           | 3957 | 5007 | 5600  |
| 5.25        | 14 x 54          | 24        | 64 | 7 | 2814  | 3980                           | 4452 | 5633 | 6300  |
| 1.78        | 16 x 16          | 23        | 23 | 7 | 953   | 1348                           | 1508 | 1908 | 2133  |
| 2.22        | 16 x 20          | 24        | 28 | 7 | 1191  | 1684                           | 1884 | 2384 | 2667  |
| 2.67        | 16 x 24          | 25        | 33 | 7 | 1429  | 2021                           | 2261 | 2861 | 3200  |
| 3.33        | 16 x 30          | 26        | 40 | 7 | 1787  | 2527                           | 2827 | 3577 | 4000  |
| 4.00        | 16 x 36          | 26        | 46 | 7 | 2144  | 3032                           | 3392 | 4292 | 4800  |
| 4.67        | 16 x 42          | 26        | 52 | 7 | 2501  | 3537                           | 3957 | 5007 | 5600  |
| 5.33        | 16 x 48          | 27        | 59 | 7 | 2859  | 4043                           | 4523 | 5723 | 6400  |
| 6.00        | 16 x 54          | 27        | 65 | 7 | 3216  | 4548                           | 5088 | 6438 | 7200  |
| 6.67        | 16 x 60          | 27        | 71 | 7 | 3573  | 5053                           | 5653 | 7153 | 8000  |
| 7.33        | 16 x 66          | 28        | 78 | 7 | 3931  | 5559                           | 6219 | 7869 | 8800  |
| 2.25        | 18 x 18          | 26        | 26 | 8 | 1206  | 1706                           | 1908 | 2414 | 2700  |
| 3.00        | 18 x 24          | 27        | 33 | 8 | 1608  | 2274                           | 2544 | 3219 | 3600  |
| 3.75        | 18 x 30          | 28        | 40 | 8 | 2010  | 2843                           | 3180 | 4024 | 4500  |
| 4.50        | 18 x 36          | 29        | 47 | 8 | 2412  | 3411                           | 3816 | 4829 | 5400  |
| 5.25        | 18 x 42          | 29        | 53 | 8 | 2814  | 3980                           | 4452 | 5633 | 6300  |
| 6.00        | 18 x 48          | 30        | 60 | 8 | 3216  | 4548                           | 5088 | 6438 | 7200  |
| 6.75        | 18 x 54          | 30        | 66 | 8 | 3618  | 5117                           | 5724 | 7243 | 8100  |
| 7.50        | 18 x 60          | 30        | 72 | 8 | 4020  | 5685                           | 6360 | 8048 | 9000  |
| 8.25        | 18 x 66          | 31        | 79 | 8 | 4422  | 6254                           | 6996 | 8852 | 9900  |
| 9.00        | 18 x 72          | 31        | 85 | 8 | 4824  | 6822                           | 7632 | 9657 | 10800 |
| 2.78        | 20 x 20          | 29        | 29 | 9 | 1489  | 2106                           | 2356 | 2981 | 3333  |
| 3.33        | 20 x 24          | 31        | 33 | 9 | 1787  | 2527                           | 2827 | 3577 | 4000  |
| 4.17        | 20 x 30          | 31        | 41 | 9 | 2233  | 3158                           | 3533 | 4471 | 5000  |
| 5.00        | 20 x 36          | 31        | 47 | 9 | 2680  | 3790                           | 4240 | 5365 | 6000  |
| 5.83        | 20 x 42          | 32        | 52 | 9 | 3127  | 4422                           | 4947 | 6259 | 7000  |
| 6.67        | 20 x 48          | 33        | 61 | 9 | 3573  | 5053                           | 5653 | 7153 | 8000  |

Hoods wider than 98" will ship knocked down.

Insect Screens - Add .10 to area shown in table. Damper - Add .10 to area shown in table. Filters - Add .17 to area shown in table.

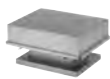


## Gravity Relief 1:1 Ratio Cont.

| Throat Area | Dimensional Data |           |     |    | Throat Velocity in FPM @ Static Pressure - Relief |                                |       |       |       |
|-------------|------------------|-----------|-----|----|---|--------------------------------|-------|-------|-------|
|             | Throat Size      | Hood Size |     |    | 536   | 758                            | 848   | 1073  | 1200  |
|             |                  | A x B     | C   | D  | E   | CFM @ Static Pressure - Relief |       |       |       |
|             |                  |           |     |    | .050  | .100                           | .125  | .200  | .250  |
| 7.50        | 20 x 54          | 33        | 67  | 9  | 4020  | 5685                           | 6360  | 8048  | 9000  |
| 8.33        | 20 x 60          | 33        | 73  | 9  | 4467  | 6317                           | 7067  | 8942  | 10000 |
| 9.17        | 20 x 66          | 34        | 80  | 9  | 4913  | 6948                           | 7773  | 9836  | 11000 |
| 10.00       | 20 x 72          | 34        | 86  | 9  | 5360  | 7580                           | 8480  | 10730 | 12000 |
| 10.83       | 20 x 78          | 34        | 92  | 9  | 5807  | 8212                           | 9187  | 11624 | 13000 |
| 11.67       | 20 x 84          | 35        | 98  | 9  | 6253  | 8843                           | 9893  | 12518 | 14000 |
| 4.00        | 24 x 24          | 34        | 34  | 11 | 2144  | 3032                           | 3392  | 4292  | 4800  |
| 5.00        | 24 x 30          | 36        | 42  | 11 | 2680  | 3790                           | 4240  | 5365  | 6000  |
| 6.00        | 24 x 36          | 37        | 49  | 11 | 3216  | 4548                           | 5088  | 6438  | 7200  |
| 7.00        | 24 x 42          | 38        | 56  | 11 | 3752  | 5306                           | 5936  | 7511  | 8400  |
| 8.00        | 24 x 48          | 38        | 62  | 11 | 4288  | 6064                           | 6784  | 8584  | 9600  |
| 9.00        | 24 x 54          | 39        | 69  | 11 | 4824  | 6822                           | 7632  | 9657  | 10800 |
| 10.00       | 24 x 60          | 39        | 75  | 11 | 5360  | 7580                           | 8480  | 10730 | 12000 |
| 11.00       | 24 x 66          | 40        | 82  | 11 | 5896  | 8338                           | 9328  | 11803 | 13200 |
| 12.00       | 24 x 72          | 40        | 88  | 11 | 6432  | 9096                           | 10176 | 12876 | 14400 |
| 13.00       | 24 x 78          | 40        | 94  | 11 | 6968  | 9854                           | 11024 | 13949 | 15600 |
| 14.00       | 24 x 84          | 40        | 100 | 11 | 7504  | 10612                          | 11872 | 15022 | 16800 |
| 15.00       | 24 x 90          | 40        | 106 | 11 | 8040  | 11370                          | 12720 | 16095 | 18000 |
| 6.25        | 30 x 30          | 43        | 43  | 13 | 3350  | 4738                           | 5300  | 6706  | 7500  |
| 7.50        | 30 x 36          | 44        | 50  | 13 | 4020  | 5685                           | 6360  | 8048  | 9000  |
| 8.75        | 30 x 42          | 45        | 57  | 13 | 4690  | 6633                           | 7420  | 9389  | 10500 |
| 10.00       | 30 x 48          | 45        | 65  | 13 | 5360  | 7580                           | 8480  | 10730 | 12000 |
| 11.25       | 30 x 54          | 45        | 74  | 13 | 6030  | 8528                           | 9540  | 12071 | 13500 |
| 12.50       | 30 x 60          | 48        | 78  | 13 | 6700  | 9475                           | 10600 | 13413 | 15000 |
| 13.75       | 30 x 66          | 48        | 84  | 13 | 7370  | 10423                          | 11660 | 14754 | 16500 |
| 15.00       | 30 x 72          | 49        | 91  | 13 | 8040  | 11370                          | 12720 | 16095 | 18000 |
| 16.25       | 30 x 78          | 49        | 97  | 13 | 8710  | 12318                          | 13780 | 17436 | 19500 |
| 17.50       | 30 x 84          | 50        | 104 | 13 | 9380  | 13265                          | 14840 | 18778 | 21000 |
| 18.75       | 30 x 90          | 50        | 111 | 13 | 10050   | 14213                          | 15900 | 20119 | 22500 |
| 9.00        | 36 x 36          | 52        | 52  | 15 | 4824  | 6822                           | 7632  | 9657  | 10800 |
| 10.50       | 36 x 42          | 53        | 59  | 15 | 5628  | 7959                           | 8904  | 11267 | 12600 |
| 12.00       | 36 x 48          | 54        | 66  | 15 | 6432  | 9096                           | 10176 | 12876 | 14400 |
| 13.50       | 36 x 54          | 55        | 73  | 15 | 7236  | 10233                          | 11448 | 14486 | 16200 |
| 15.00       | 36 x 60          | 56        | 80  | 15 | 8040  | 11370                          | 12720 | 16095 | 18000 |
| 16.50       | 36 x 66          | 56        | 86  | 15 | 8844  | 12507                          | 13992 | 17705 | 19800 |
| 18.00       | 36 x 72          | 57        | 93  | 15 | 9648  | 13644                          | 15264 | 19314 | 21600 |
| 19.50       | 36 x 78          | 58        | 99  | 15 | 10452   | 14781                          | 16536 | 20924 | 23400 |
| 21.00       | 36 x 84          | 58        | 106 | 15 | 11256   | 15918                          | 17808 | 22533 | 25200 |
| 22.50       | 36 x 90          | 58        | 112 | 15 | 12060   | 17055                          | 19080 | 24143 | 27000 |
| 24.00       | 36 x 96          | 59        | 119 | 15 | 12864   | 18192                          | 20352 | 25752 | 28800 |
| 25.50       | 36 x 102         | 59        | 124 | 15 | 13668   | 19329                          | 21624 | 27362 | 30600 |
| 12.25       | 42 x 42          | 59        | 59  | 15 | 6566  | 9286                           | 10388 | 13144 | 14700 |
| 15.75       | 42 x 54          | 62        | 74  | 15 | 8442  | 11939                          | 13356 | 16900 | 18900 |
| 17.50       | 42 x 60          | 64        | 82  | 15 | 9380  | 13265                          | 14840 | 18778 | 21000 |
| 19.25       | 42 x 66          | 65        | 89  | 15 | 10318   | 14592                          | 16324 | 20655 | 23100 |
| 21.00       | 42 x 72          | 65        | 95  | 15 | 11256   | 15918                          | 17808 | 22533 | 25200 |
| 22.75       | 42 x 78          | 65        | 101 | 15 | 12194   | 17245                          | 19292 | 24411 | 27300 |
| 24.50       | 42 x 84          | 66        | 108 | 15 | 13132   | 18571                          | 20776 | 26289 | 29400 |
| 26.25       | 42 x 90          | 66        | 114 | 15 | 14070   | 19898                          | 22260 | 28166 | 31500 |
| 28.00       | 42 x 96          | 67        | 121 | 15 | 15008   | 21224                          | 23744 | 30044 | 33600 |
| 29.75       | 42 x 102         | 68        | 128 | 15 | 15946   | 22551                          | 25228 | 31922 | 35700 |
| 31.50       | 42 x 108         | 68        | 134 | 15 | 16884   | 23877                          | 26712 | 33800 | 37800 |
| 16.00       | 48 x 48          | 68        | 68  | 17 | 8576  | 12128                          | 13568 | 17168 | 19200 |
| 18.00       | 48 x 54          | 70        | 76  | 17 | 9648  | 13644                          | 15264 | 19314 | 21600 |
| 20.00       | 48 x 60          | 71        | 83  | 17 | 10720   | 15160                          | 16960 | 21460 | 24000 |
| 22.00       | 48 x 66          | 72        | 90  | 17 | 11792   | 16676                          | 18656 | 23606 | 26400 |

Hoods wider than 98" will ship knocked down.

Insect Screens - Add .10 to area shown in table. Damper - Add .10 to area shown in table. Filters - Add .17 to area shown in table.

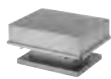


## Gravity Relief 1:1 Ratio Cont.

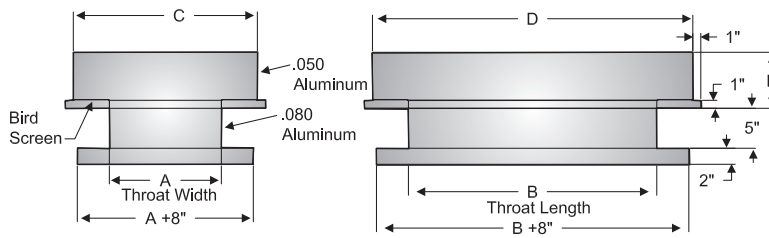
| Throat Area | Dimensional Data |           |     |    | Throat Velocity in FPM @ Static Pressure - Relief |                                |       |       |       |
|-------------|------------------|-----------|-----|----|---|--------------------------------|-------|-------|-------|
|             | Throat Size      | Hood Size |     |    | 536   | 758                            | 848   | 1073  | 1200  |
|             |                  | A x B     | C   | D  | E   | CFM @ Static Pressure - Relief |       |       |       |
|             |                  |           |     |    | .050  | .100                           | .125  | .200  | .250  |
| 24.00       | 48 x 72          | 73        | 97  | 17 | 12864   | 18192                          | 20352 | 25752 | 28800 |
| 26.00       | 48 x 78          | 74        | 103 | 17 | 13936   | 19708                          | 22048 | 27898 | 31200 |
| 28.00       | 48 x 84          | 75        | 111 | 17 | 15008   | 21224                          | 23744 | 30044 | 33600 |
| 30.00       | 48 x 90          | 75        | 117 | 17 | 16080   | 22740                          | 25440 | 32190 | 36000 |
| 32.00       | 48 x 96          | 75        | 123 | 17 | 17152   | 24256                          | 27136 | 34336 | 38400 |
| 34.00       | 48 x 102         | 75        | 129 | 17 | 18224   | 25772                          | 28832 | 36582 | 40800 |
| 36.00       | 48 x 108         | 77        | 137 | 17 | 19296   | 27288                          | 30528 | 38628 | 43200 |
| 38.00       | 48 x 114         | 77        | 146 | 17 | 20368   | 28804                          | 32224 | 40774 | 45600 |
| 20.25       | 54 x 54          | 77        | 77  | 19 | 10854   | 15350                          | 17172 | 21728 | 24300 |
| 22.50       | 54 x 60          | 79        | 85  | 19 | 12060   | 17055                          | 19080 | 24143 | 27000 |
| 24.75       | 54 x 66          | 79        | 91  | 19 | 13266   | 18761                          | 20988 | 26557 | 29700 |
| 27.00       | 54 x 72          | 80        | 98  | 19 | 14472   | 20466                          | 22896 | 28971 | 32400 |
| 29.25       | 54 x 78          | 81        | 104 | 19 | 15678   | 22172                          | 24804 | 31385 | 35100 |
| 31.50       | 54 x 84          | 82        | 112 | 19 | 16884   | 23877                          | 26712 | 33800 | 37800 |
| 33.75       | 54 x 90          | 82        | 119 | 19 | 18090   | 25583                          | 28620 | 36214 | 40500 |
| 36.00       | 54 x 96          | 83        | 125 | 19 | 19296   | 27288                          | 30528 | 38628 | 43200 |
| 38.25       | 54 x 102         | 84        | 134 | 19 | 20502   | 28994                          | 32436 | 41042 | 45900 |
| 40.50       | 54 x 108         | 85        | 139 | 19 | 21708   | 30699                          | 34344 | 43457 | 48600 |
| 42.75       | 54 x 114         | 85        | 144 | 19 | 22914   | 32405                          | 36252 | 45871 | 51300 |
| 25.00       | 60 x 60          | 86        | 86  | 21 | 13400   | 18950                          | 21200 | 26825 | 30000 |
| 27.50       | 60 x 66          | 87        | 93  | 21 | 14740   | 20845                          | 23320 | 29508 | 33000 |
| 30.00       | 60 x 72          | 88        | 100 | 21 | 16080   | 22740                          | 25440 | 32190 | 36000 |
| 32.50       | 60 x 78          | 89        | 106 | 21 | 17420   | 24635                          | 27560 | 34873 | 39000 |
| 35.00       | 60 x 84          | 90        | 114 | 21 | 18760   | 26530                          | 29680 | 37555 | 42000 |
| 37.50       | 60 x 90          | 90        | 120 | 21 | 20100   | 28425                          | 31800 | 40238 | 45000 |
| 40.00       | 60 x 96          | 91        | 127 | 21 | 21440   | 30320                          | 33920 | 42920 | 48000 |
| 42.50       | 60 x 102         | 92        | 134 | 21 | 22780   | 32215                          | 36040 | 45603 | 51000 |
| 45.00       | 60 x 108         | 93        | 141 | 21 | 24120   | 34110                          | 38160 | 48285 | 54000 |
| 47.50       | 60 x 114         | 93        | 148 | 21 | 25460   | 36005                          | 40280 | 50968 | 57000 |
| 50.00       | 60 x 120         | 94        | 154 | 21 | 26800   | 37900                          | 42400 | 53650 | 60000 |
| 30.25       | 66 x 66          | 94        | 94  | 21 | 16214   | 22930                          | 25652 | 32458 | 36300 |
| 33.00       | 66 x 72          | 94        | 94  | 21 | 17688   | 25014                          | 27984 | 35409 | 39600 |
| 35.75       | 66 x 78          | 95        | 105 | 21 | 19162   | 27099                          | 30316 | 38360 | 42900 |
| 38.50       | 66 x 84          | 97        | 115 | 21 | 20636   | 29183                          | 32648 | 41311 | 46200 |
| 41.25       | 66 x 90          | 97        | 123 | 21 | 22110   | 31268                          | 34980 | 44261 | 49500 |
| 44.00       | 66 x 96          | 97        | 131 | 21 | 23584   | 33352                          | 37312 | 47212 | 52800 |
| 46.75       | 66 x 102         | 97        | 139 | 21 | 25058   | 35437                          | 39644 | 50163 | 56100 |
| 49.50       | 66 x 108         | 97        | 147 | 21 | 26532   | 37521                          | 41976 | 53114 | 59400 |
| 52.25       | 66 x 114         | 97        | 156 | 21 | 28006   | 39606                          | 44308 | 56064 | 62700 |
| 55.00       | 66 x 120         | 96        | 165 | 21 | 29480   | 41690                          | 46640 | 59015 | 66000 |
| 57.75       | 66 x 126         | 96        | 174 | 21 | 30954   | 43775                          | 48972 | 61966 | 69300 |
| 60.50       | 66 x 132         | 96        | 182 | 21 | 32428   | 45859                          | 51304 | 64917 | 72600 |
| 36.00       | 72 x 72          | 96        | 110 | 21 | 19296   | 27288                          | 30528 | 38628 | 43200 |
| 39.00       | 72 x 78          | 96        | 118 | 21 | 20904   | 29562                          | 33072 | 41847 | 46800 |
| 42.00       | 72 x 84          | 96        | 126 | 21 | 22512   | 31836                          | 35616 | 45066 | 50400 |
| 45.00       | 72 x 90          | 96        | 134 | 21 | 24120   | 34110                          | 38160 | 48285 | 54000 |
| 48.00       | 72 x 96          | 96        | 143 | 21 | 25728   | 36384                          | 40704 | 51504 | 57600 |
| 51.00       | 72 x 102         | 96        | 153 | 21 | 27336   | 38658                          | 43248 | 54723 | 61200 |
| 54.00       | 72 x 108         | 96        | 163 | 21 | 28944   | 40932                          | 45792 | 57942 | 64800 |
| 57.00       | 72 x 114         | 96        | 172 | 21 | 30552   | 43206                          | 48336 | 61161 | 68400 |
| 60.00       | 72 x 120         | 96        | 180 | 21 | 32160   | 45480                          | 50880 | 64380 | 72000 |
| 63.00       | 72 x 126         | 108       | 168 | 23 | 33768   | 47754                          | 53424 | 67599 | 75600 |
| 66.00       | 72 x 132         | 108       | 176 | 23 | 35376   | 50028                          | 55968 | 70818 | 79200 |
| 69.00       | 72 x 138         | 108       | 184 | 23 | 36984   | 52302                          | 58512 | 74037 | 82800 |
| 72.00       | 72 x 144         | 108       | 192 | 23 | 38592   | 54576                          | 61056 | 77256 | 86400 |

Hoods wider than 98" will ship knocked down.

Insect Screens - Add .10 to area shown in table. Damper - Add .10 to area shown in table. Filters - Add .17 to area shown in table.



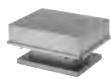
# Gravity Intake 2:1 Ratio



| Dimensional Data |             |           |    |    | Throat Velocity in FPM @ Static Pressure - Intake |         |         |          |          |
|------------------|-------------|-----------|----|----|---|---------|---------|----------|----------|
| Throat Area      | Throat Size | Hood Size |    |    | 312/625   | 441/883 | 592/998 | 592/1185 | 625/1250 |
|                  |             |           |    |    | CFM @ Static Pressure - Intake                    |         |         |          |          |
|                  | A x B       | C         | D  | E  | .050  | .100    | .125    | .180     | .200     |
| 1.00             | 12 x 12     | 21        | 21 | 7  | 625   | 883     | 988     | 1185     | 1250     |
| 1.50             | 12 x 18     | 23        | 29 | 7  | 938   | 1325    | 1482    | 1778     | 1875     |
| 2.00             | 12 x 24     | 25        | 37 | 7  | 1250  | 1766    | 1976    | 2370     | 2500     |
| 2.50             | 12 x 30     | 26        | 44 | 7  | 1563  | 2208    | 2470    | 2963     | 3125     |
| 3.00             | 12 x 36     | 27        | 51 | 7  | 1875  | 2649    | 2964    | 3555     | 3750     |
| 3.50             | 12 x 42     | 29        | 57 | 7  | 2188  | 3091    | 3458    | 4148     | 4375     |
| 4.00             | 12 x 48     | 28        | 64 | 7  | 2500  | 3532    | 3952    | 4740     | 5000     |
| 1.36             | 14 x 14     | 25        | 25 | 8  | 851   | 1202    | 1345    | 1613     | 1701     |
| 1.75             | 14 x 18     | 26        | 30 | 8  | 1094  | 1545    | 1729    | 2074     | 2188     |
| 2.33             | 14 x 24     | 28        | 38 | 8  | 1458  | 2060    | 2305    | 2765     | 2917     |
| 2.92             | 14 x 30     | 29        | 45 | 8  | 1823  | 2575    | 2882    | 3456     | 3646     |
| 3.50             | 14 x 36     | 30        | 52 | 8  | 2188  | 3091    | 3458    | 4148     | 4375     |
| 4.08             | 14 x 42     | 30        | 57 | 8  | 2552  | 3606    | 4034    | 4839     | 5104     |
| 4.67             | 14 x 48     | 31        | 65 | 8  | 2917  | 4121    | 4611    | 5530     | 5833     |
| 5.25             | 14 x 54     | 32        | 72 | 8  | 3281  | 4636    | 5187    | 6221     | 6563     |
| 1.78             | 16 x 16     | 28        | 28 | 9  | 1111  | 1570    | 1756    | 2107     | 2222     |
| 2.22             | 16 x 20     | 29        | 33 | 9  | 1389  | 1962    | 2196    | 2633     | 2778     |
| 2.67             | 16 x 24     | 31        | 39 | 9  | 1667  | 2355    | 2635    | 3160     | 3333     |
| 3.33             | 16 x 30     | 32        | 45 | 9  | 2083  | 2943    | 3293    | 3950     | 4167     |
| 4.00             | 16 x 36     | 33        | 53 | 9  | 2500  | 3532    | 3952    | 4740     | 5000     |
| 4.67             | 16 x 42     | 33        | 59 | 9  | 2917  | 4121    | 4611    | 5530     | 5833     |
| 5.33             | 16 x 48     | 35        | 67 | 9  | 3333  | 4709    | 5269    | 6320     | 6667     |
| 6.00             | 16 x 54     | 36        | 74 | 9  | 3750  | 5298    | 5928    | 7110     | 7500     |
| 6.67             | 16 x 60     | 36        | 80 | 9  | 4167  | 5887    | 6587    | 7900     | 8333     |
| 7.33             | 16 x 66     | 37        | 87 | 9  | 4583  | 6475    | 7245    | 8690     | 9167     |
| 2.25             | 18 x 18     | 32        | 32 | 10 | 1406  | 1987    | 2223    | 2666     | 2813     |
| 3.00             | 18 x 24     | 33        | 40 | 10 | 1875  | 2649    | 2964    | 3555     | 3750     |
| 3.75             | 18 x 30     | 36        | 48 | 10 | 2344  | 3311    | 3705    | 4444     | 4688     |
| 4.50             | 18 x 36     | 37        | 55 | 10 | 2813  | 3974    | 4446    | 5333     | 5625     |
| 5.25             | 18 x 42     | 38        | 62 | 10 | 3281  | 4636    | 5187    | 6221     | 6563     |
| 6.00             | 18 x 48     | 39        | 69 | 10 | 3750  | 5298    | 5928    | 7110     | 7500     |
| 6.75             | 18 x 54     | 40        | 76 | 10 | 4219  | 5960    | 6669    | 7999     | 8438     |
| 7.50             | 18 x 60     | 40        | 82 | 10 | 4688  | 6623    | 7410    | 8888     | 9375     |
| 8.25             | 18 x 66     | 41        | 89 | 10 | 5156  | 7285    | 8151    | 9776     | 10313    |
| 9.00             | 18 x 72     | 41        | 95 | 10 | 5625  | 7947    | 8892    | 10665    | 11250    |
| 2.78             | 20 x 20     | 35        | 35 | 11 | 1736  | 2453    | 2744    | 3292     | 3472     |
| 3.33             | 20 x 24     | 37        | 41 | 11 | 2083  | 2943    | 3293    | 3950     | 4167     |
| 4.17             | 20 x 30     | 38        | 48 | 11 | 2604  | 3679    | 4117    | 4938     | 5208     |
| 5.00             | 20 x 36     | 40        | 56 | 11 | 3125  | 4415    | 4940    | 5925     | 6250     |
| 5.83             | 20 x 42     | 40        | 60 | 11 | 3646  | 5151    | 5763    | 6913     | 7292     |
| 6.67             | 20 x 48     | 42        | 70 | 11 | 4167  | 5887    | 6587    | 7900     | 8333     |

Hoods wider than 98" will ship knocked down.

Insect Screens - Add .10 to area shown in table. Damper - Add .10 to area shown in table. Filters - Add .17 to area shown in table.



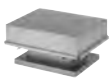
# Gravity Intake 2:1 Ratio Cont.

| Throat Area | Dimensional Data |           |     |      | Throat Velocity in FPM @ Static Pressure - Intake |         |         |          |          |
|-------------|------------------|-----------|-----|------|---|---------|---------|----------|----------|
|             | Throat Size      | Hood Size |     |      | 312/625   | 441/883 | 592/998 | 592/1185 | 625/1250 |
|             |                  |           |     |      | CFM @ Static Pressure - Intake                    |         |         |          |          |
| A x B       | C                | D         | E   | .050 | .100  | .125    | .180    | .200     |          |
| 7.50        | 20 x 54          | 43        | 77  | 11   | 4688  | 6623    | 7410    | 8888     | 9375     |
| 8.33        | 20 x 60          | 44        | 84  | 11   | 5208  | 7358    | 8233    | 9875     | 10417    |
| 9.17        | 20 x 66          | 45        | 91  | 11   | 5729  | 8094    | 9057    | 10863    | 11458    |
| 10.00       | 20 x 72          | 45        | 97  | 11   | 6250  | 8830    | 9880    | 11850    | 12500    |
| 10.83       | 20 x 78          | 46        | 106 | 11   | 6771  | 9956    | 10703   | 12838    | 13542    |
| 11.67       | 20 x 84          | 46        | 110 | 11   | 7292  | 10302   | 11527   | 13825    | 14583    |
| 4.00        | 24 x 24          | 42        | 42  | 11   | 2500  | 3532    | 3952    | 4740     | 5000     |
| 5.00        | 24 x 30          | 44        | 50  | 11   | 3125  | 4415    | 4940    | 5925     | 6250     |
| 6.00        | 24 x 36          | 46        | 58  | 11   | 3750  | 5298    | 5928    | 7110     | 7500     |
| 7.00        | 24 x 42          | 48        | 66  | 11   | 4375  | 6181    | 6916    | 8295     | 8750     |
| 8.00        | 24 x 48          | 49        | 73  | 11   | 5000  | 7064    | 7904    | 9480     | 10000    |
| 9.00        | 24 x 54          | 50        | 80  | 11   | 5625  | 7947    | 8892    | 10665    | 11250    |
| 10.00       | 24 x 60          | 52        | 88  | 11   | 6250  | 8830    | 9880    | 11850    | 12500    |
| 11.00       | 24 x 66          | 52        | 94  | 11   | 6875  | 9713    | 10868   | 13035    | 13750    |
| 12.00       | 24 x 72          | 52        | 100 | 11   | 7500  | 10596   | 11856   | 14220    | 15000    |
| 13.00       | 24 x 78          | 53        | 109 | 11   | 8125  | 11479   | 12844   | 15405    | 16250    |
| 14.00       | 24 x 84          | 54        | 114 | 11   | 8750  | 12362   | 13832   | 16590    | 17500    |
| 15.00       | 24 x 90          | 55        | 127 | 11   | 9375  | 13245   | 14820   | 17775    | 18750    |
| 6.25        | 30 x 30          | 53        | 53  | 13   | 3906  | 5519    | 6175    | 7406     | 7813     |
| 7.50        | 30 x 36          | 55        | 61  | 13   | 4688  | 6623    | 7410    | 8888     | 9375     |
| 8.75        | 30 x 42          | 57        | 69  | 13   | 5469  | 7726    | 8645    | 10369    | 10938    |
| 10.00       | 30 x 48          | 57        | 76  | 13   | 6250  | 8830    | 9880    | 11850    | 12500    |
| 11.25       | 30 x 54          | 60        | 84  | 13   | 7031  | 9934    | 11115   | 13331    | 14063    |
| 12.50       | 30 x 60          | 61        | 91  | 13   | 7813  | 11038   | 12350   | 14813    | 15625    |
| 13.75       | 30 x 66          | 62        | 98  | 13   | 8594  | 12141   | 13585   | 16294    | 17188    |
| 15.00       | 30 x 72          | 63        | 105 | 13   | 9375  | 13245   | 14820   | 17775    | 18750    |
| 16.25       | 30 x 78          | 64        | 114 | 13   | 10156   | 14349   | 16055   | 19256    | 20313    |
| 17.50       | 30 x 84          | 65        | 119 | 13   | 10938   | 15453   | 17290   | 20738    | 21875    |
| 18.75       | 30 x 90          | 66        | 132 | 13   | 11719   | 16556   | 18525   | 22219    | 23438    |
| 9.00        | 36 x 36          | 63        | 63  | 15   | 5625  | 7947    | 8892    | 10665    | 11250    |
| 10.50       | 36 x 42          | 66        | 72  | 15   | 6563  | 9272    | 10374   | 12443    | 13125    |
| 12.00       | 36 x 48          | 67        | 79  | 15   | 7500  | 10596   | 11856   | 14220    | 15000    |
| 13.50       | 36 x 54          | 69        | 87  | 15   | 8438  | 11921   | 13338   | 15998    | 16875    |
| 15.00       | 36 x 60          | 70        | 94  | 15   | 9375  | 13245   | 14820   | 17775    | 18750    |
| 16.50       | 36 x 66          | 71        | 101 | 15   | 10313   | 14570   | 16302   | 19553    | 20625    |
| 18.00       | 36 x 72          | 72        | 108 | 15   | 11250   | 15894   | 17784   | 21330    | 22500    |
| 19.50       | 36 x 78          | 74        | 117 | 15   | 12188   | 17219   | 19266   | 23108    | 24375    |
| 21.00       | 36 x 84          | 75        | 123 | 15   | 13125   | 18543   | 20748   | 24885    | 26250    |
| 22.50       | 36 x 90          | 75        | 130 | 15   | 14063   | 19868   | 22230   | 26663    | 28125    |
| 24.00       | 36 x 96          | 77        | 137 | 15   | 15000   | 21192   | 23712   | 28440    | 30000    |
| 25.50       | 36 x 102         | 78        | 150 | 15   | 15938   | 22517   | 25194   | 30218    | 31875    |
| 12.25       | 42 x 42          | 74        | 74  | 18   | 7656  | 10817   | 12103   | 14516    | 15313    |
| 15.75       | 42 x 54          | 78        | 90  | 18   | 9844  | 13907   | 15561   | 18664    | 19688    |
| 17.50       | 42 x 60          | 80        | 98  | 18   | 10938   | 15453   | 17290   | 20738    | 21875    |
| 19.25       | 42 x 66          | 81        | 105 | 18   | 12031   | 16998   | 19019   | 22811    | 24063    |
| 21.00       | 42 x 72          | 83        | 113 | 18   | 13125   | 18543   | 20748   | 24885    | 26250    |
| 22.75       | 42 x 78          | 83        | 122 | 18   | 14219   | 20088   | 22477   | 26959    | 28438    |
| 24.50       | 42 x 84          | 84        | 126 | 18   | 15313   | 21634   | 24206   | 29033    | 30625    |
| 26.25       | 42 x 90          | 85        | 135 | 18   | 16406   | 23179   | 25935   | 31106    | 32813    |
| 28.00       | 42 x 96          | 87        | 141 | 18   | 17500   | 24724   | 27664   | 33180    | 35000    |
| 29.75       | 42 x 102         | 88        | 150 | 18   | 18594   | 26269   | 29393   | 35254    | 37188    |
| 31.50       | 42 x 108         | 89        | 155 | 18   | 19688   | 27815   | 31122   | 37328    | 39375    |
| 16.00       | 48 x 48          | 84        | 84  | 20   | 10000   | 14128   | 15808   | 18960    | 20000    |
| 18.00       | 48 x 54          | 87        | 93  | 20   | 11250   | 15894   | 17784   | 21330    | 22500    |
| 20.00       | 48 x 60          | 88        | 100 | 20   | 12500   | 17660   | 19760   | 23700    | 25000    |
| 22.00       | 48 x 66          | 89        | 107 | 20   | 13750   | 19426   | 21736   | 26070    | 27500    |

Hoods wider than 98" will ship knocked down.

Insect Screens - Add .10 to area shown in table. Damper - Add .10 to area shown in table. Filters - Add .17 to area shown in table.





# Gravity Intake 2:1 Ratio Cont.

| Throat Area | Dimensional Data |           |     |    | Throat Velocity in FPM @ Static Pressure - Intake |                                |         |          |          |
|-------------|------------------|-----------|-----|----|---|--------------------------------|---------|----------|----------|
|             | Throat Size      | Hood Size |     |    | 312/625   | 441/883                        | 592/998 | 592/1185 | 625/1250 |
|             |                  | A x B     | C   | D  | E   | CFM @ Static Pressure - Intake |         |          |          |
|             |                  |           |     |    | .050  | .100                           | .125    | .180     | .200     |
| 24.00       | 48 x 72          | 92        | 116 | 20 | 15000   | 21192                          | 23712   | 28440    | 30000    |
| 26.00       | 48 x 78          | 94        | 126 | 20 | 16250   | 22958                          | 25688   | 30810    | 32500    |
| 28.00       | 48 x 84          | 95        | 131 | 20 | 17500   | 24724                          | 27664   | 33180    | 35000    |
| 30.00       | 48 x 90          | 95        | 140 | 20 | 18750   | 26490                          | 29640   | 35550    | 37500    |
| 32.00       | 48 x 96          | 96        | 144 | 20 | 20000   | 28256                          | 31616   | 37920    | 40000    |
| 34.00       | 48 x 102         | 96        | 155 | 20 | 21250   | 30022                          | 33592   | 40290    | 42500    |
| 36.00       | 48 x 108         | 95        | 165 | 20 | 22500   | 31788                          | 35568   | 42660    | 45000    |
| 38.00       | 48 x 114         | 97        | 172 | 20 | 23750   | 33554                          | 37544   | 45030    | 47500    |
| 20.25       | 54 x 54          | 95        | 95  | 23 | 12656   | 17881                          | 20007   | 23996    | 25313    |
| 22.50       | 54 x 60          | 97        | 103 | 23 | 14063   | 19868                          | 22230   | 26663    | 28125    |
| 24.75       | 54 x 66          | 98        | 110 | 23 | 15469   | 21854                          | 24453   | 29329    | 30938    |
| 27.00       | 54 x 72          | 98        | 121 | 23 | 16875   | 23841                          | 26676   | 31995    | 33750    |
| 29.25       | 54 x 78          | 98        | 124 | 23 | 18281   | 25828                          | 28899   | 34661    | 36563    |
| 31.50       | 54 x 84          | 98        | 140 | 23 | 19688   | 27815                          | 31122   | 37328    | 39375    |
| 33.75       | 54 x 90          | 98        | 150 | 23 | 21094   | 29801                          | 33345   | 39994    | 42188    |
| 36.00       | 54 x 96          | 98        | 160 | 23 | 22500   | 31788                          | 35568   | 42660    | 45000    |
| 38.25       | 54 x 102         | 98        | 170 | 23 | 23906   | 33775                          | 37791   | 45326    | 47813    |
| 40.50       | 54 x 108         | 98        | 179 | 23 | 25313   | 35762                          | 40014   | 47993    | 50625    |
| 42.75       | 54 x 114         | 98        | 179 | 25 | 26719   | 37748                          | 42237   | 50659    | 53438    |
| 25.00       | 60 x 60          | 95        | 115 | 25 | 15625   | 22075                          | 24700   | 29625    | 31250    |
| 27.50       | 60 x 66          | 96        | 124 | 25 | 17188   | 24283                          | 27170   | 32588    | 34375    |
| 30.00       | 60 x 72          | 109       | 121 | 25 | 18750   | 26490                          | 29640   | 35550    | 37500    |
| 32.50       | 60 x 78          | 111       | 131 | 25 | 20313   | 28698                          | 32110   | 38513    | 40625    |
| 35.00       | 60 x 84          | 113       | 137 | 25 | 21875   | 30905                          | 34580   | 41475    | 43750    |
| 37.50       | 60 x 90          | 114       | 140 | 25 | 23438   | 33113                          | 37050   | 44438    | 46875    |
| 40.00       | 60 x 96          | 115       | 151 | 25 | 25000   | 35320                          | 39520   | 47400    | 50000    |
| 42.50       | 60 x 102         | 115       | 155 | 25 | 26563   | 37528                          | 41990   | 50363    | 53125    |
| 45.00       | 60 x 108         | 118       | 166 | 25 | 28125   | 39735                          | 44460   | 53325    | 56250    |
| 47.50       | 60 x 114         | 118       | 175 | 25 | 29688   | 41943                          | 46930   | 56288    | 59375    |
| 50.00       | 60 x 120         | 118       | 184 | 25 | 31250   | 44150                          | 49400   | 59250    | 62500    |
| 30.25       | 66 x 66          | 98        | 134 | 25 | 18906   | 26711                          | 29887   | 35846    | 37813    |
| 33.00       | 66 x 72          | 98        | 134 | 25 | 20625   | 29139                          | 32604   | 39105    | 41250    |
| 35.75       | 66 x 78          | 117       | 136 | 25 | 22344   | 31567                          | 35321   | 42364    | 44688    |
| 38.50       | 66 x 84          | 117       | 143 | 25 | 24063   | 33996                          | 38038   | 45623    | 48125    |
| 41.25       | 66 x 90          | 117       | 150 | 25 | 25781   | 36424                          | 40755   | 48881    | 51563    |
| 44.00       | 66 x 96          | 117       | 162 | 25 | 24500   | 38852                          | 43472   | 52140    | 55000    |
| 46.75       | 66 x 102         | 117       | 173 | 26 | 29219   | 41280                          | 46189   | 55399    | 58438    |
| 49.50       | 66 x 108         | 117       | 182 | 26 | 30938   | 43709                          | 48906   | 58658    | 61875    |
| 52.25       | 66 x 114         | 117       | 193 | 26 | 32656   | 46137                          | 51623   | 61916    | 65313    |
| 55.00       | 66 x 120         | 124       | 192 | 28 | 34375   | 48565                          | 54340   | 65175    | 68750    |
| 57.75       | 66 x 126         | 130       | 192 | 28 | 36094   | 50993                          | 57057   | 68434    | 72188    |
| 60.50       | 66 x 132         | 138       | 190 | 28 | 37813   | 53422                          | 59774   | 71693    | 75625    |
| 36.00       | 72 x 72          | 117       | 137 | 25 | 22500   | 31788                          | 35568   | 42660    | 45000    |
| 39.00       | 72 x 78          | 126       | 134 | 28 | 24375   | 34437                          | 38532   | 46215    | 48750    |
| 42.00       | 72 x 84          | 130       | 142 | 29 | 26250   | 37086                          | 41496   | 49770    | 52500    |
| 45.00       | 72 x 90          | 132       | 148 | 28 | 28125   | 39735                          | 44460   | 53325    | 56250    |
| 48.00       | 72 x 96          | 133       | 157 | 29 | 30000   | 42384                          | 47424   | 56880    | 60000    |
| 51.00       | 72 x 102         | 140       | 170 | 28 | 31875   | 45033                          | 50388   | 60435    | 63750    |
| 54.00       | 72 x 108         | 136       | 172 | 29 | 33750   | 47682                          | 53352   | 63990    | 67500    |
| 57.00       | 72 x 114         | 140       | 178 | 28 | 35625   | 50331                          | 56316   | 67545    | 71250    |
| 60.00       | 72 x 120         | 139       | 187 | 29 | 37500   | 52980                          | 59280   | 71100    | 75000    |
| 63.00       | 72 x 126         | 144       | 190 | 29 | 39375   | 55629                          | 62244   | 74655    | 78750    |
| 66.00       | 72 x 132         | 144       | 198 | 29 | 41250   | 58278                          | 65208   | 78210    | 82500    |
| 69.00       | 72 x 138         | 144       | 208 | 29 | 43125   | 60927                          | 68172   | 81765    | 86250    |
| 72.00       | 72 x 144         | 144       | 216 | 29 | 45000   | 63576                          | 71136   | 85320    | 90000    |

Hoods wider than 98" will ship knocked down.

Insect Screens - Add .10 to area shown in table. Damper - Add .10 to area shown in table. Filters - Add .17 to area shown in table.