Ampelair

# SV Industrial Ventilators

## A breath of fresh air and comfort year-round!

Every industrial building, large or small, needs to keep air circulating and keep temperatures to a comfortable level. Ampelair ventilators are an effective, inexpensive, reliable, maintenance free ventilation solution. Using only the power of the wind they extract stale air and allow fresh air to circulate within the building.

**Suits new installations or replacement**
**Wind driven means no running costs**
**Reliable 15 year warranty**
**Aluminium construction**

Fully enclosed Stainless Steel self-lubricating bearings.
Also available in powder coated colour finish.
Available models: SV450, SV600, SV800, SV950.

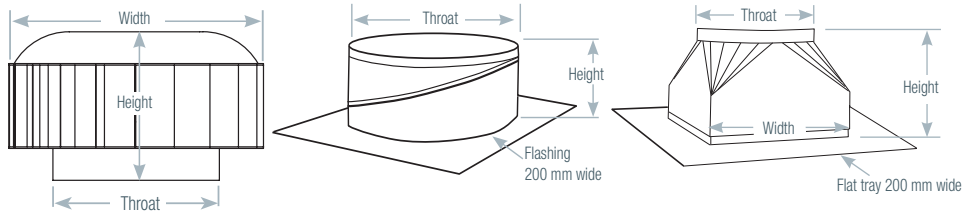
15 YEAR WARRANTY

AMPELITE makes light work!

# Dimensions

VENTILATOR HEAD | VARIABLE PITCH BASE BASE | SQUARE to ROUND

All models and bases



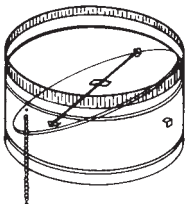

| Aluminium | Throat | Width | Height | Width | Height | Width | Height |
|---|---|---|---|---|---|---|---|
| SV450 | 450mm | 625mm | 405m | 740x640mm | 280mm | - | - |
| SV600 | 600mm | 770mm | 450mm | 900mm | 280mm | - | - |
| SV800 | 800mm | 98mm | 535mm | - | - | 880mm | 480mm |
| SV950 | 950mm | 1130mm | 575mm | - | - | 1110mm | 680mm |

## Bases

Ampelair ventilators models: SV450 and SV600 are supplied complete with a Variable Pitch – Aluminium base to suit any application. Ampelair ventilator models: SV800, SV950 are head only units but can be supplied with Heavy duty Square to Round bases made from Zincalume.

## Dampers

Available for 450mm, 600mm, 800mm and 950mm throat diameter ventilators. Smaller sizes are not widely used but can be supplied against orders. Manually operated. Zincalume® construction.



## Capacity Table

Extraction volume expressed in cubic metres per second. 1 cubic metre = 1000 litres

| Stack Height Metres | Wind Speed Km/hr. | Temp Diff. °C | Model SV Industrial Ventilators 450 | 600 | 800 | 950 |
|---|---|---|---|---|---|---|
| 3.0 | 6 | 6 | 0.350 | 0.609 | 1.162 | 1.617 |
| | | 12 | 0.362 | 0.630 | 1.202 | 1.672 |
| | | 18 | 0.382 | 0.664 | 1.267 | 1.762 |
| | 8 | 6 | 0.419 | 0.727 | 1.388 | 1.931 |
| | | 12 | 0.428 | 0.738 | 1.408 | 1.959 |
| | | 18 | 0.452 | 0.785 | 1.498 | 2.085 |
| | 12 | 6 | 0.625 | 1.088 | 2.075 | 2.887 |
| | | 12 | 0.635 | 1.105 | 2.109 | 2.935 |
| | | 18 | 0.641 | 1.116 | 2.125 | 2.963 |
| | 16 | 6 | 0.772 | 1.343 | 2.561 | 3.562 |
| | | 12 | 0.791 | 1.377 | 2.627 | 3.655 |
| | | 18 | 0.808 | 1.408 | 2.683 | 3.741 |
| 6.0 | 6 | 6 | 0.362 | 0.630 | 1.202 | 1.672 |
| | | 12 | 0.420 | 0.732 | 1.397 | 1.944 |
| | | 18 | 0.431 | 0.751 | 1.433 | 1.994 |
| | 8 | 6 | 0.424 | 0.738 | 1.408 | 1.959 |
| | | 12 | 0.439 | 0.763 | 1.456 | 2.026 |
| | | 18 | 0.458 | 0.797 | 1.521 | 2.117 |
| | 12 | 6 | 0.635 | 1.105 | 2.109 | 2.935 |
| | | 12 | 0.655 | 1.141 | 2.177 | 3.029 |
| | | 18 | 0.713 | 1.239 | 2.364 | 3.289 |
| | 16 | 6 | 0.791 | 1.377 | 2.627 | 3.655 |
| | | 12 | 0.813 | 1.414 | 2.697 | 3.753 |
| | | 18 | 0.844 | 1.467 | 2.799 | 3.895 |
| 9.0 | 6 | 6 | 0.381 | 0.664 | 1.267 | 1.762 |
| | | 12 | 0.431 | 0.751 | 1.433 | 1.994 |
| | | 18 | 0.483 | 0.839 | 1.601 | 2.227 |
| | 8 | 6 | 0.452 | 0.785 | 1.498 | 2.085 |
| | | 12 | 0.458 | 0.797 | 1.521 | 2.117 |
| | | 18 | 0.530 | 0.922 | 1.759 | 2.447 |
| | 12 | 6 | 0.642 | 1.116 | 2.129 | 2.963 |
| | | 12 | 0.712 | 1.239 | 2.364 | 3.289 |
| | | 18 | 0.737 | 1.283 | 2.449 | 3.407 |
| | 16 | 6 | 0.808 | 1.408 | 2.683 | 3.741 |
| | | 12 | 0.843 | 1.467 | 2.799 | 3.895 |
| | | 18 | 0.855 | 1.486 | 2.836 | 3.946 |

The formula and capacity tables are useful guides in determining the model size and number of ventilators required. Building usage and other factors, finally determine the exact requirements for maximum efficiency and the comfort levels required. Ampelite can assist at design or specification stages in this regard.

## Calculations

### to decide size and number of Ventilators.

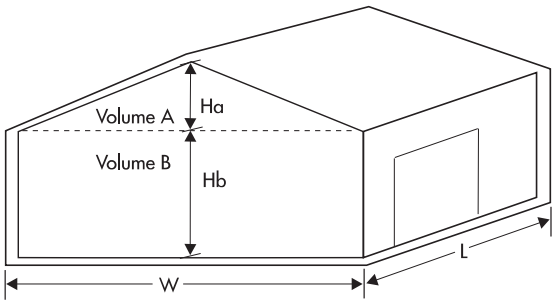
**1. Determine the volume of the building**

Volume of section A = 0.5 x L x W x Ha
Volume of section B = L x W x Hb

Total building volume = volume of section A + volume of section B.

*Note: For factories, the combined volume A + B should be used.*

Where Volume B is air-conditioned, only Volume A is used to calculate the number of ventilators required. No air should be drawn from the air-conditioned space below ceiling level.




**2. Select the number of ventilators required**

METRIC = V x Ac/Hr
EX/c x 3.6
Where:

V = Volume of building or roof space

Ac/Hr = Air changes per hour

EX/c = Exhaust capacity of ventilator

| Building Type | Recommended Air Changes per Hour |
|---|---|
| Warehouses | 4 to 8 |
| Factories & Workshops | 5 to 10 |
| Gyms, Tennis & Squash Courts | 7 to 10 |
| Assembly Halls, Garages | 10 to 15 |
| Toilets | 12 to 15 |
| Laundries | 20 to 40 |
| Stables, Piggeries & Poultry | 20 to 50 |
| Bakeries, Boiler Houses | 30 to 40 |

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