

Ampelair SV Industrial – Ventilators

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

The Ampelair range of ventilators has a type and size to suit all installations.

Aluminium construction. Throat sizes from 150mm to 950mm.











WIND

DRIVEN







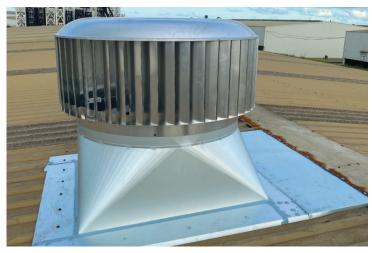








Ampelair SV Industrial Ventilators combine appearance and performance – the simple answer on any roof.



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.

Applications of Ampelair aluminium ventilators include:

- Exhausting pit gases, methane, sulphur dioxide etc.
- Minimising condensation under metal roofs covering water storage tanks or reservoirs.
- Removing chlorine fumes above enclosed swimming pools.
- Ventilating very gritty environments where air-borne particles may clog an exposed bottom bearing.
- Industrial ventilation when higher standards matter.

Features

- Stainless Steel bearings fully enclosed and self lubricating in a Stainless Steel double row casing.
- Bearings are maintenance free, designed to withstand extreme environments.
- Bearing assembly provides low friction with minimal drag, resulting in a longer life.
- Two part shaft system comprising anti corrosive steel axle fully sealed in a fire resistant nylon casing.
- The tough nylon casing ensures the original alignment of head and axle is always maintained, even after wind pressure stress.
- The straight vanes are free flowing.
- Optimum efficiency has been achieved through the vane's angle and maximum available surface area.
- Low profile design and straight vanes provide pleasing aesthetics.
- Also available in powder coated colour finish.
- Australian Owned, Australian Manufactured.

Wind driven turbo ventilators are used the world over because of their low capital and installed cost, adaptability, high capacity per vent, and reliability.

Operation is simplicity in itself. As the vent hood is rotated by the wind the stale inside air is exhausted through the vanes and the natural inward flow of air is boosted. Ampelair Rotary Ventilators are efficient, impressive, and reliable.

Ventilators can be supplied complete with base to suit the application, or heads and bases (square to round or variable pitch) may be ordered separately. Site surveys are available or you can use the following formulas to determine your requirements.

Calculations to decide size and number of Ventilators.

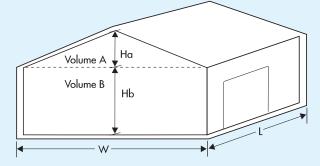
1. Determine the volume of the building.

Volume of section $A = 0.5 \times L \times W \times Ha$ Volume of section $B = L \times W \times Hb$

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

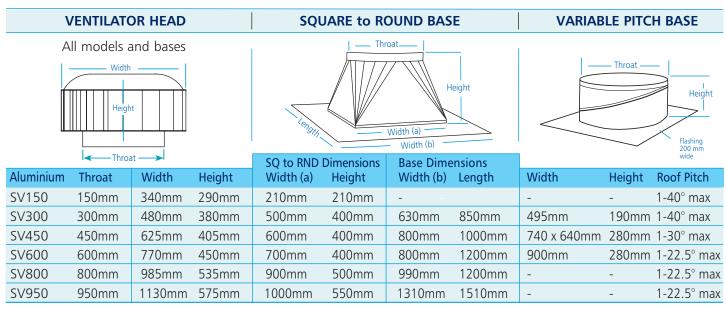
 $\begin{array}{rcl} \mathsf{METRIC} &= & \mathsf{V} \times \mathsf{Ac/Hr} \\ \mathsf{EX/c} \times 3.6 \\ \\ \mathsf{Where:} \end{array}$

V = Volume of building or roof space

Ac/Hr = Air changes per hour

EX/c = Exhaust capacity of ventilator

Using ventilators in the ceiling space of air-conditioned buildings reduces the load on the air-conditioning plant and helps reduce power consumption accordingly.



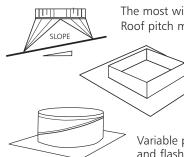


Bases

Ampelair ventilators can be supplied complete with a base to suit any application, or heads and bases can be ordered separately. Roof pitch and roofing profile must be specified at time of ordering bases. Heavy duty bases are made from Zincalume®, and supplied in natural finish, but Colorbond® colours can be supplied if specified.

Square to Round – Zincalume®

For models: SV150, SV300, SV450, SV600, SV800, SV950. Variable Pitch – Aluminium Available for models: SV300, SV450, SV600



The most widely used base type. Roof pitch must be specified when ordering.

> Square to round bases are supplied with roof tray which must be installed according to Ampelair fixing instructions overleaf.

Variable pitch aluminium base and flashing.

Note: Base flashings are powder coated to avoid dissimilar metal contact.

Dampers



Available in both ELECTRIC and MANUAL dampers. Square to round base ONLY. Ampelite's single disc butterfly dampers come in a range of sizes to allow flexible control of air movement. Sizes from 300mm, 450mm, 600mm, 800mm & 950mm.

Note: Electric dampers must be fitted by a qualified electrician







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

Capacity Table

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

S A Model SV Industrial Ventilators

Model SV industrial Ventilators Model SV industrial Ventilators		4612	Deed	5	Model SV	Industrial	Ventilator	S	
6 1.033 0.132 0.330 0.603 1.162 1.167 6 12 0.039 0.158 0.362 0.603 1.202 1.672 8 0.042 0.166 0.382 0.664 1.267 1.762 8 12 0.046 0.182 0.419 0.727 1.388 1.931 3.0 18 0.049 0.193 0.452 0.785 1.498 2.085 12 12 0.069 0.277 0.635 1.105 2.109 2.935 16 0.70 0.277 0.635 1.105 2.109 2.935 16 12 0.069 0.277 0.635 1.105 2.109 2.935 16 12 0.069 0.277 0.635 1.015 2.109 2.935 16 12 0.060 0.344 0.721 1.343 1.944 18 0.070 0.188 0.420 0.738 1.408 1.959	2 ct	inc.	The second	2					
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9.0 6 0.069 0.277 0.635 1.105 2.109 2.935 12 12 0.071 0.285 0.655 1.141 2.177 3.029 18 0.072 0.310 0.713 1.239 2.364 3.289 16 12 0.086 0.344 0.791 1.377 2.627 3.655 16 12 0.089 0.354 0.813 1.414 2.697 3.753 18 0.092 0.367 0.844 1.467 2.799 3.895 16 12 0.047 0.180 0.431 0.751 1.433 1.994 18 0.052 0.210 0.483 0.839 1.601 2.227 6 12 0.047 0.180 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.7	6.0		18	0.050	0.199	0.458	0.797	1.521	2.117
18 0.072 0.310 0.713 1.239 2.364 3.289 16 1.2 0.086 0.344 0.791 1.377 2.627 3.655 16 1.2 0.089 0.354 0.813 1.414 2.697 3.753 18 0.092 0.367 0.844 1.467 2.799 3.895 18 0.092 0.367 0.844 1.467 2.799 3.895 18 0.092 0.166 0.381 0.664 1.267 1.762 18 0.092 0.166 0.381 0.664 1.267 1.762 18 0.052 0.210 0.483 0.839 1.601 2.227 6 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12	0.0		6	0.069	0.277	0.635	1.105	2.109	2.935
6 0.086 0.344 0.791 1.377 2.627 3.655 16 12 0.089 0.354 0.813 1.414 2.697 3.753 18 0.092 0.367 0.844 1.467 2.799 3.895 18 0.092 0.367 0.844 1.467 2.799 3.895 18 0.092 0.166 0.381 0.664 1.267 1.762 0.047 0.180 0.431 0.751 1.433 1.994 18 0.052 0.210 0.483 0.839 1.601 2.227 6 12 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12 12 0.077 0.300 0.712 1.239 2.364 3.289 14 <td< td=""><td></td><td>12</td><td>12</td><td>0.071</td><td>0.285</td><td>0.655</td><td>1.141</td><td>2.177</td><td>3.029</td></td<>		12	12	0.071	0.285	0.655	1.141	2.177	3.029
16 12 0.089 0.354 0.813 1.414 2.697 3.753 18 0.092 0.367 0.844 1.467 2.799 3.895 6 0.042 0.166 0.381 0.664 1.267 1.762 6 12 0.047 0.180 0.431 0.751 1.433 1.994 18 0.052 0.210 0.483 0.839 1.601 2.227 6 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 16 12 0.092 0.367 0.843 1.467 2.799 3.895 <			18	0.072	0.310	0.713	1.239	2.364	3.289
18 0.092 0.367 0.844 1.467 2.799 3.895 6 0.042 0.166 0.381 0.664 1.267 1.762 6 12 0.047 0.180 0.431 0.751 1.433 1.994 18 0.052 0.210 0.483 0.839 1.601 2.227 6 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 16 12 0.092 0.367 0.843 1.408 2.683 3.741			6	0.086	0.344	0.791	1.377	2.627	3.655
9.0 6 0.042 0.166 0.381 0.664 1.267 1.762 8 12 0.047 0.180 0.431 0.751 1.433 1.994 18 0.052 0.210 0.483 0.839 1.601 2.227 6 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 16 12 0.088 0.352 0.808 1.408 2.683 3.741		16	12	0.089	0.354	0.813	1.414	2.697	3.753
9.0 6 12 0.047 0.180 0.431 0.751 1.433 1.994 18 0.052 0.210 0.483 0.839 1.601 2.227 6 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 12 12 0.077 0.300 0.712 1.239 2.364 3.289 16 12 0.088 0.352 0.808 1.408 2.683 3.741 16 12 0.092 0.367 0.843 1.467 2.799 3.895			18	0.092	0.367	0.844	1.467	2.799	3.895
9.0 18 0.052 0.210 0.483 0.839 1.601 2.227 8 12 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 16 12 0.092 0.367 0.808 1.408 2.683 3.741			6	0.042	0.166	0.381	0.664	1.267	1.762
9.0 6 0.049 0.196 0.452 0.785 1.498 2.085 8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 16 12 0.092 0.367 0.843 1.408 2.683 3.741		6	12	0.047	0.180	0.431	0.751	1.433	1.994
8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 18 0.070 0.279 0.642 1.116 2.129 2.963 12 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 16 12 0.092 0.367 0.808 1.408 2.683 3.741			18	0.052	0.210	0.483	0.839	1.601	2.227
8 12 0.050 0.209 0.458 0.797 1.521 2.117 18 0.058 0.230 0.530 0.922 1.759 2.447 18 0.070 0.279 0.642 1.116 2.129 2.963 12 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 16 12 0.092 0.367 0.808 1.408 2.683 3.741			6	0.049	0.196	0.452	0.785	1.498	2.085
9.0 6 0.070 0.279 0.642 1.116 2.129 2.963 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 6 0.088 0.352 0.808 1.408 2.683 3.741 16 12 0.092 0.367 0.843 1.467 2.799 3.895	9.0	8	12	0.050		0.458	0.797	1.521	2.117
6 0.070 0.279 0.642 1.116 2.129 2.963 12 12 0.077 0.300 0.712 1.239 2.364 3.289 18 0.080 0.321 0.737 1.283 2.449 3.407 6 0.088 0.352 0.808 1.408 2.683 3.741 16 12 0.092 0.367 0.843 1.467 2.799 3.895			18	0.058	0.230	0.530	0.922	1.759	2.447
18 0.080 0.321 0.737 1.283 2.449 3.407 6 0.088 0.352 0.808 1.408 2.683 3.741 16 12 0.092 0.367 0.843 1.467 2.799 3.895		12	6	0.070	0.279	0.642	1.116	2.129	2.963
18 0.080 0.321 0.737 1.283 2.449 3.407 6 0.088 0.352 0.808 1.408 2.683 3.741 16 12 0.092 0.367 0.843 1.467 2.799 3.895			12	0.077	0.300	0.712	1.239	2.364	3.289
6 0.088 0.352 0.808 1.408 2.683 3.741 16 12 0.092 0.367 0.843 1.467 2.799 3.895			18	0.080					
16 12 0.092 0.367 0.843 1.467 2.799 3.895			6						
		16							
				0.093	0.371	0.855	1.486	2.836	3.946

The formulas on page two and the above capacity table 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.



Details of the Ampelair warranty are available from Ampelite Australia Pty Ltd offices. Specific written project warranties will be provided upon verification of correct installation procedures.

Definitions

Stack Height

This is a measurement taken from the intake area (generally floor level) to the base of the ventilator.

Wind Speed Average or usual wind speed (Km/hr) at the location.

Temperature Differential

The average difference between internal and external temperatures.

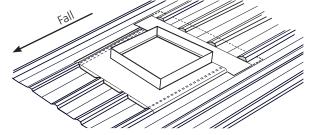
Installation

1. It is recommended for rotary sizes 600 and up, solid support between purlins is installed. Failure to do so can result in needless movement of the vent in high winds. Failure to provide correct support will result in loss of warranty.

2. It is recommended back trays to ridge capping or roof expansion joints are used to provide guaranteed leak proof installation. Photo below shows back tray extending beneath roof expansion joint.



3. Drawing below shows soaker installation without a back tray.



4. Refer to SAA HB39 Installation Code for Metal Roofing and Wall Cladding and install accordingly.

Specification

The Wind Driven Ventilators shall be "Ampelair" SV Industrial (insert size) made from Aluminium

* in natural finish/coloured to match Colorbond[®] Installation shall be in accordance with Ampelair fixing instructions and closely follow SAA HB39 installation procedures. All work shall be done in a workmanlike manner.

*Select/insert finish required.

Ampelite is proudly Australian owned and manufactured. Profits remain in Australia and taxes paid benefit our community.

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QLD	Tel 07 3382 8300	Fax 07 3200 8703	Nth QLD	Tel 07 4774 5007	Fax 07 4774 7898
SA & NT	Tel 08 8260 7391	Fax 08 8260 7397	WA	Tel 08 9302 6833	Fax 08 9302 6855
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