



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, SV900.



AMPELITE
makes light work!

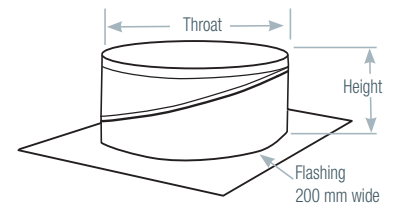
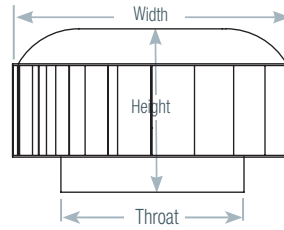
Freephone: 0800 AMPELITE (0800 267 354) • 79 Captain Springs Rd, Onehunga, Auckland • www.ampelite.co.nz

Dimensions

VENTILATOR HEAD

VARIABLE PITCH BASE

All models and bases



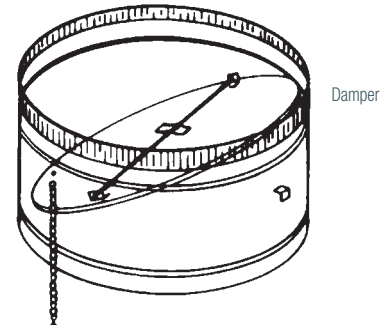
Aluminium	Throat	Width	Height	Width	Height
SV450	450mm	625mm	405mm	740x640mm	280mm
SV600	600mm	770mm	450mm	900mm	280mm
SV900	900mm	1100mm	930mm	1200mm	390mm

Bases

Ampelair ventilators models: SV450, SV600 and SV900 are supplied complete with a Variable Pitch.

Dampers

Available for 450mm, 600mm and 900mm throat diameter ventilators. Smaller sizes are not widely used but can be supplied against orders. Manually operated. Zincaleum® 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	900	
3.0	6	6	0.350	0.609	1.617	
		12	0.362	0.630	1.672	
		18	0.382	0.664	1.762	
	8	12	6	0.419	0.727	1.931
			18	0.428	0.738	1.959
		18	6	0.452	0.785	2.085
			12	0.625	1.088	2.887
		12	12	0.635	1.105	2.935
			18	0.641	1.116	2.963
	16	12	6	0.772	1.343	3.562
			18	0.791	1.377	3.655
		18	6	0.808	1.408	3.741
12			0.808	1.408	3.741	
6.0		6	6	0.362	0.630	1.672
			12	0.420	0.732	1.944
	18		0.431	0.751	1.994	
	8	6	0.424	0.738	1.959	
		12	0.439	0.763	2.026	
		18	0.458	0.797	2.117	
9.0	6	6	0.635	1.105	2.935	
		12	0.655	1.141	3.029	
		18	0.713	1.239	3.289	
	8	6	0.791	1.377	3.655	
		12	0.813	1.414	3.753	
		18	0.844	1.467	3.895	
9.0	6	6	0.381	0.664	1.762	
		12	0.431	0.751	1.994	
		18	0.483	0.839	2.227	
	8	6	0.452	0.785	2.085	
		12	0.458	0.797	2.117	
		18	0.530	0.922	2.447	
	12	6	0.642	1.116	2.963	
		12	0.712	1.239	3.289	
		18	0.737	1.283	3.407	
	16	6	0.808	1.408	3.741	
		12	0.843	1.467	3.895	
		18	0.855	1.486	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. Ampelair can assist at design or specification stages in this regard.

Calculations

to decide size and number of Ventilators.

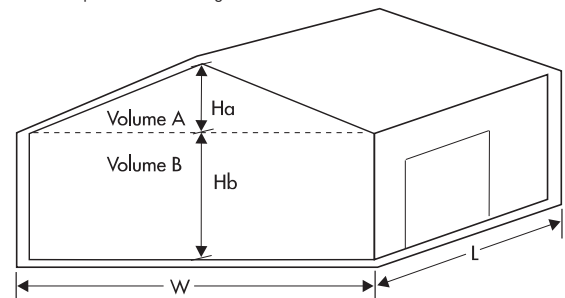
1. Determine the volume of the building

Volume of section A = $0.5 \times L \times W \times H_a$
Volume of section B = $L \times W \times H_b$

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 = $V \times Ac/Hr$
 $EX/c \times 3.6$
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