

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.



AMPELITE
makes light work!

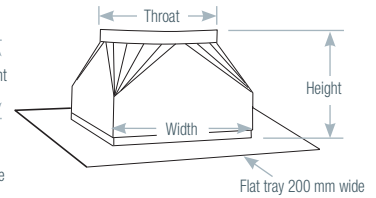
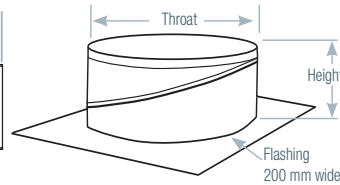
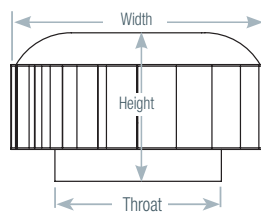
Dimensions

VENTILATOR HEAD

VARIABLE PITCH BASE

SQUARE to ROUND

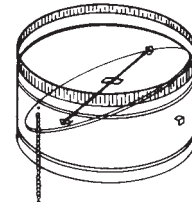
All models and bases



Aluminium	Throat	Width	Height	Width	Height	Width	Height
SV450	450mm	625mm	405mm	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 Zinalume.

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. Zinalume® 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	12	0.419	0.727	1.388	1.931	
			18	0.428	0.738	1.408	1.959	
		12	6	0.452	0.785	1.498	2.085	
			18	0.625	1.088	2.075	2.887	
		16	12	0.635	1.105	2.109	2.935	
			18	0.641	1.116	2.125	2.963	
	6.0	6	12	0.772	1.343	2.561	3.562	
			18	0.791	1.377	2.627	3.655	
			18	0.808	1.408	2.683	3.741	
8		6	12	0.362	0.630	1.202	1.672	
			18	0.420	0.732	1.397	1.944	
		12	6	0.431	0.751	1.433	1.994	
			18	0.424	0.738	1.408	1.959	
		16	12	0.439	0.763	1.456	2.026	
			18	0.458	0.797	1.521	2.117	
9.0		6	12	0.635	1.105	2.109	2.935	
			18	0.655	1.141	2.177	3.029	
			18	0.713	1.239	2.364	3.289	
	8	6	12	0.791	1.377	2.627	3.655	
			18	0.813	1.414	2.697	3.753	
		12	6	0.844	1.467	2.799	3.895	
			18	0.855	1.486	2.836	3.946	
		16	6	12	0.381	0.664	1.267	1.762
				18	0.431	0.751	1.433	1.994
	8		6	0.483	0.839	1.601	2.227	
			18	0.452	0.785	1.498	2.085	
	12		12	0.458	0.797	1.521	2.117	
18			0.530	0.922	1.759	2.447		
16	6	12	0.642	1.116	2.129	2.963		
		18	0.712	1.239	2.364	3.289		
	12	6	0.737	1.283	2.449	3.407		
		18	0.808	1.408	2.683	3.741		
	16	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

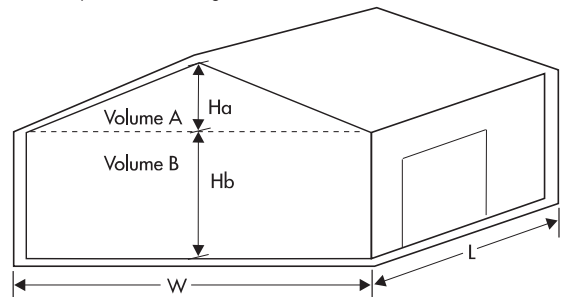
Volume of section A = $0.5 \times L \times W \times H_a$

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 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