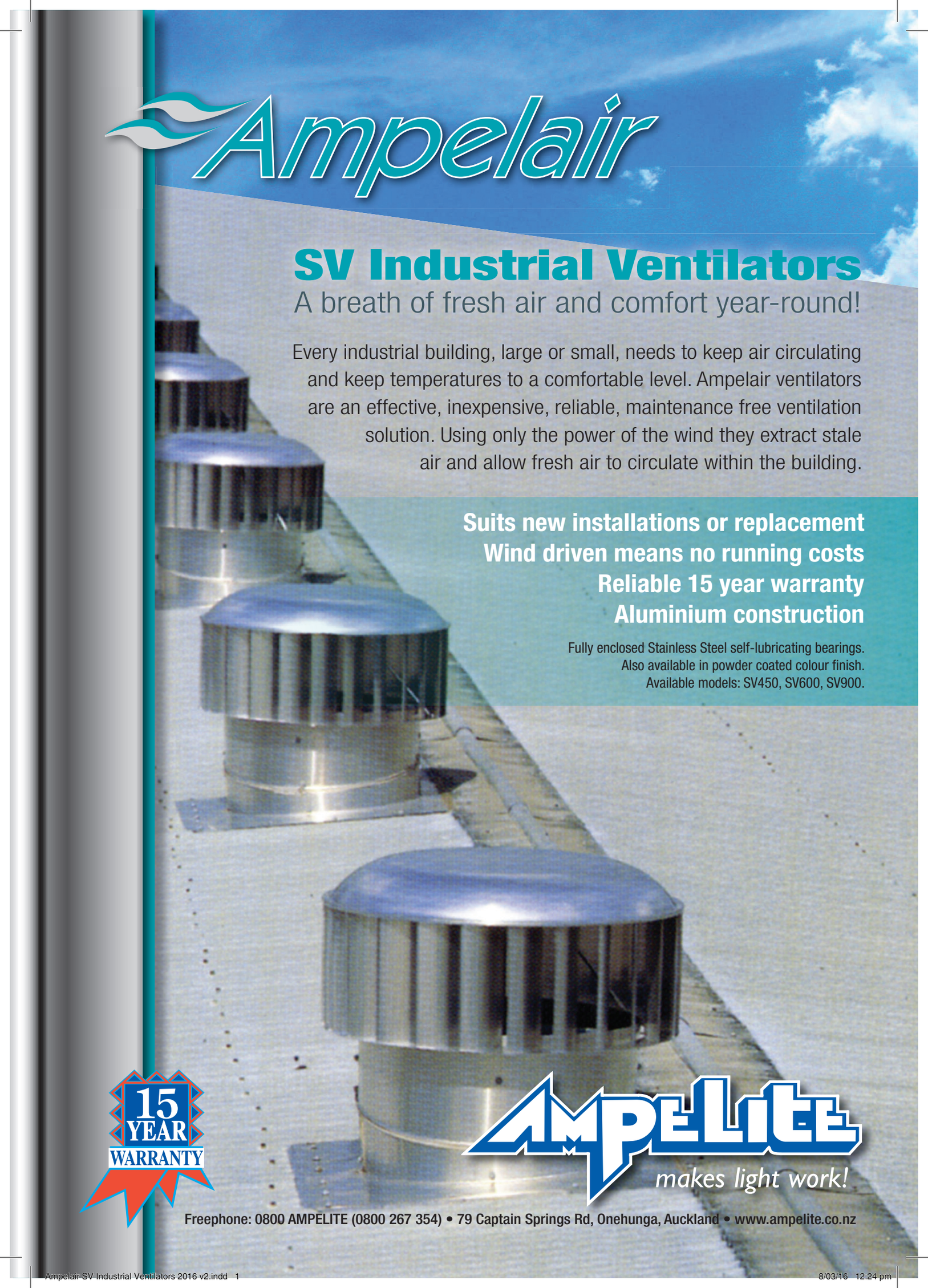
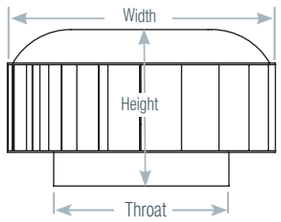
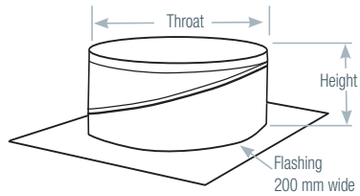


Dimensions

VENTILATOR HEAD | VARIABLE PITCH BASE BASE

All models and bases





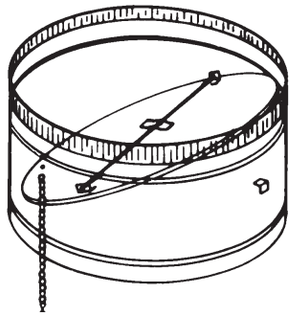
Aluminium	Throat	Width	Height	Width	Height
SV450	450mm	625mm	405mm	740x640mm	280mm
SV600	600mm	770mm	450mm	900mm	280mm
SV900	900mm	1100mm	930mm	1200mm	390mm

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. Zincalume® construction.



Damper

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	6	0.419	0.727	1.931
		12	0.428	0.738	1.959
		18	0.452	0.785	2.085
	12	6	0.625	1.088	2.887
		12	0.635	1.105	2.935
		18	0.641	1.116	2.963
	16	6	0.772	1.343	3.562
		12	0.791	1.377	3.655
		18	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
	12	6	0.635	1.105	2.935
		12	0.655	1.141	3.029
		18	0.713	1.239	3.289
	16	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. Ampelite can assist at design or specification stages in this regard.

Calculations

to decide size and number of Ventilators.

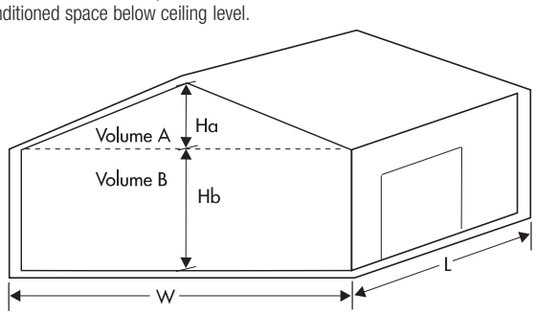
1. Determine the volume of the building

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