

Ampelair Wind Driven, Turbo Roof Ventilators

Code	Description	
AA300MVVP	30MVVP Ventilator Alloy Roof Head & Base 300mm	S
AA600MVVP	Ventilator Alloy Roof 600mm AA600MVVP (head and base)	L
AS150	Ventilator Stainless Steel SS150 Head only	L
AS200	Ventilator Zincolume AS200 Head only	L

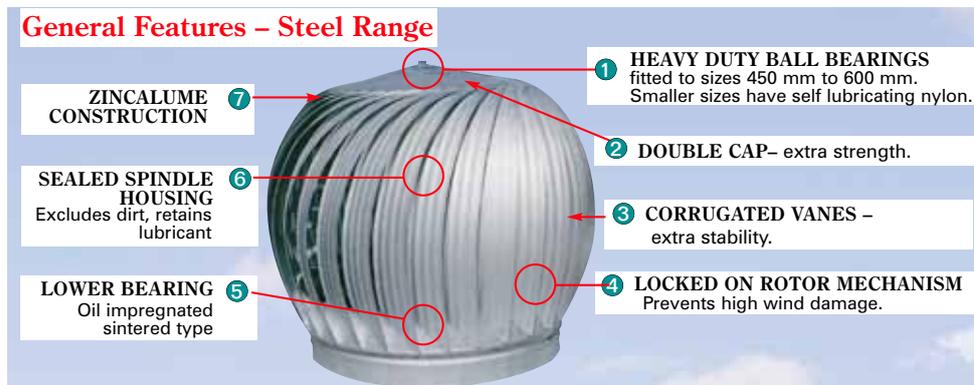


The Building Code of New Zealand sets out minimum ventilation requirement for industrial and commercial premises. However depending on the building use this can be less than adequate. It is generally recognised that workplace efficiency is improved when ventilation matches the interior conditions. Extracting oppressively hot air and fumes minimises worker lethargy, loss of concentration, and consequent loss of productivity. Even in colder weather, effective air circulation improves the workplace environment, so your investment works all year.

Round Vane (RV) Industrial Range

Ampelair RV Industrial Ventilators are engineered and constructed to require very little maintenance even after years of service. With their low profile design and aluminium construction, Ampelair ventilators are designed to give optimum efficiency through the angle of the vane and the enlarged surface area. Even in cross winds the vane shape will retain its rotational strength.

- Designed for farm and light commercial Buildings
- Two sizes, 500mm & 600mm (AA600MVVP)
- Complete with variable pitch base for quick and easy to installation
- Strong, lightweight construction Alloy Construction
- Powder coat finish available to suit your roof colour.
- Dual bearing system.
- Manufactured to provide long trouble free operation in Industrial and Commercial applications



Due to a policy of continuous development, prices and specifications are subject to change without notice.

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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 RV Industrial Ventilators		
			500	600	
3.0	6	6	0.350	0.609	
		12	0.362	0.630	
		18	0.382	0.664	
	8	6	6	0.419	0.727
			12	0.428	0.738
		18	6	0.452	0.785
			12	0.625	1.088
		12	12	0.635	1.105
			18	0.641	1.116
	16	6	6	0.772	1.343
			12	0.791	1.377
		18	6	0.808	1.408
12			0.362	0.630	
6.0		6	6	0.362	0.630
			12	0.420	0.732
	18		0.431	0.751	
	8	6	6	0.424	0.738
			12	0.439	0.763
		18	0.458	0.797	
	12	6	6	0.635	1.105
			12	0.655	1.141
		18	0.713	1.239	
	16	6	6	0.791	1.377
			12	0.813	1.414
		18	0.844	1.467	
9.0	6	6	0.381	0.664	
		12	0.431	0.751	
		18	0.483	0.839	
	8	6	6	0.452	0.785
			12	0.458	0.797
		18	0.530	0.922	
	12	6	6	0.642	1.116
			12	0.712	1.239
		18	0.737	1.283	
	16	6	6	0.808	1.408
			12	0.843	1.467
		18	0.855	1.486	

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

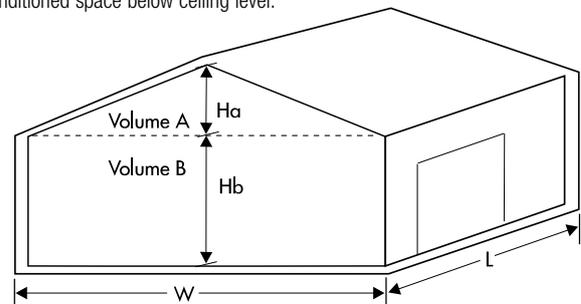
Volume of section A = $0.5 \times L \times W \times H_a$

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

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