Contents:
Stainless Steel Vents
Aluminium Vents

AMPELITE
An Australian owned company

Superior stainless steel turbo ventilators provide effective low maintenance ventilation

Ampelair

- Wind driven
- No running costs
- Efficient design
- Reliable
- Resists corrosion
- Ten year warranty
  – details from Ampelite offices

10 YEAR WARRANTY

Ampelair Stainless Steel Ventilators give superior performance in corrosive environments – the simple answer on any roof

Ampelair

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 psychologically appealing due to their effortless spinning motion.

Ampelair Stainless Steel ventilators may be used to ventilate environments subject to harsh oxidative or slightly acidic (but not caustic) conditions. Constructed from 304 stainless steel they have features that make them ideal for the following applications:

- 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 always conforms even after wind pressure stresses.
- The weather vane is designed to aerodynamic principles, enhancing performance.
- Optimum efficiency has been achieved through the vane's angle and enlarged surface area.
- Low profile design and Stainless Steel construction provides better aesthetics.
- Also available in powder coated colour finishes.
- Available models:
  SS150, SS300, SS500, SS600, SS800.

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

Calculations to decide size or number of Ventilators.

1. Determine the volume of the building.

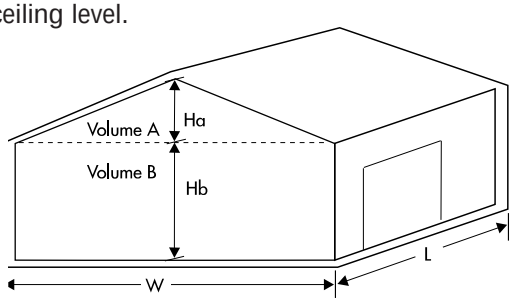
Volume of section A = 0.5 x L x W x Ha

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 airconditioned, only Volume A is used to calculate the number of ventilators required. No air should be drawn from the airconditioned space below ceiling level.



2. Select the number of ventilators required

METRIC = V x A/ch

EX/c x 3.6

Where:

V = volume of building or roof space

A/ch = air changes per hour

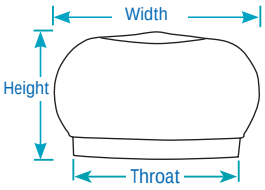
EX/c = Exhaust capacity of ventilator

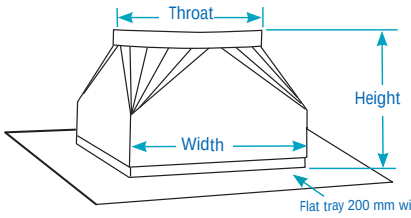
Using ventilators in the ceiling space of airconditioned buildings reduces the load on the airconditioning plant and helps reduce power consumption accordingly.

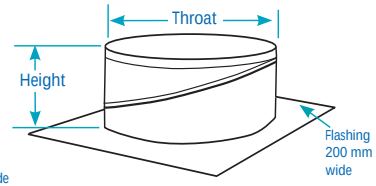
Dimensions

VENTILATOR HEAD | SQUARE to ROUND BASE | VARIABLE PITCH BASE

All models and bases







Stainless Steel	Throat	Width	Height	Width	Height	Width	Height
SS150	150 mm	230 mm	210 mm	210 mm	210 mm	-	-
SS300	300 mm	340 mm	370 mm	350 mm	360 mm	500 mm	180 mm
SS500	500 mm	640 mm	320 mm	610 mm	415 mm	750 mm	190 mm
SS600	600 mm	730 mm	390 mm	705 mm	430 mm	-	-
SS800	770 mm	930 mm	580 mm	880 mm	480 mm	-	-
Aluminium	**Throat**	**Width**	**Height**	**Width**	**Height**	**Width**	**Height**
AA500	500 mm	640 mm	320 mm	610 mm	415 mm	750 mm	190 mm
AA600	600 mm	730 mm	390mm	705 mm	430 mm	-	-

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.

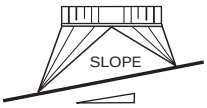
Square to Round – Zincalume®

Available for models: SS150, SS300, SS500, SS600, SS800.

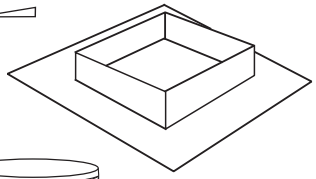
Variable Pitch – Stainless Steel

Available for models: SS300, SS500.

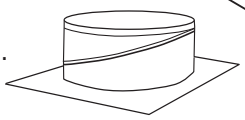
Variable Pitch – Aluminium available for model: AA500.



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



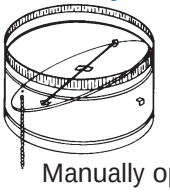
Square to round bases are supplied with roof tray which must be installed according to Ampelair fixing instructions overleaf.



Variable pitch stainless steel or aluminium base and flashing.

Note:
Base flashings are powder coated to avoid dis-similar metal contact.

Dampers



Available ex stock for 300 mm, 500 mm, and 600 mm throat diameter ventilators. Smaller sizes are not widely used but can be supplied against orders.

Manually operated. Zincalume® construction.

TEN YEAR WARRANTY

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.

Ampelair

Aluminium ventilators. For less intensive environments

- Featuring the same mechanical specifications as the Stainless Steel range.
- Models/Sizes: AA500 mm, AA600mm. See dimension table for base types available.

CAPACITY TABLE

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

Stack Height Metres	Wind Speed Km/hr.	Temp Diff. ^{0}C	Model SS/AA 150	300	500	600	800
		6	0.038	0.152	0.350	0.609	0.952
	6	12	0.039	0.158	0.362	0.630	0.985
		18	0.042	0.166	0.382	0.664	1.038
		6	0.045	0.182	0.419	0.727	1.137
	8	12	0.046	0.184	0.428	0.738	1.154
3.0		18	0.049	0.193	0.452	0.785	1.228
		6	0.068	0.272	0.625	1.088	1.700
	12	12	0.069	0.277	0.635	1.105	1.729
		18	0.070	0.279	0.641	1.116	1.736
		6	0.084	0.336	0.772	1.343	2.099
	16	12	0.086	0.344	0.791	1.377	2.153
		18	0.088	0.352	0.808	1.408	2.197
		6	0.039	0.158	0.362	0.630	0.985
	6	12	0.046	0.183	0.420	0.732	1.145
		18	0.047	0.189	0.431	0.751	1.175
		6	0.046	0.184	0.424	0.738	1.154
	8	12	0.048	0.191	0.439	0.763	1.194
6.0		18	0.050	0.199	0.458	0.797	1.246
		6	0.069	0.277	0.635	1.105	1.729
	12	12	0.071	0.285	0.655	1.141	1.784
		18	0.072	0.310	0.713	1.239	1.937
		6	0.086	0.344	0.791	1.377	2.153
	16	12	0.089	0.354	0.813	1.414	2.211
		18	0.092	0.367	0.844	1.467	2.294
		6	0.042	0.166	0.381	0.664	1.038
	6	12	0.047	0.180	0.431	0.751	1.175
		18	0.052	0.210	0.483	0.839	1.312
		6	0.049	0.196	0.452	0.785	1.228
	8	12	0.050	0.209	0.458	0.797	1.246
9.0		18	0.058	0.230	0.530	0.922	1.441
		6	0.070	0.279	0.642	1.116	1.745
	12	12	0.077	0.300	0.712	1.239	1.937
		18	0.080	0.321	0.737	1.283	2.007
		6	0.088	0.352	0.808	1.408	2.197
	16	12	0.092	0.367	0.843	1.467	2.294
		18	0.093	0.371	0.855	1.486	2.324

The formulas on page two and the above capacity table are useful guides to 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.

Definitions

Stack Height

This is a measurement taken from the middle of the intake area to the base of the ventilator.

Wind Speed

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

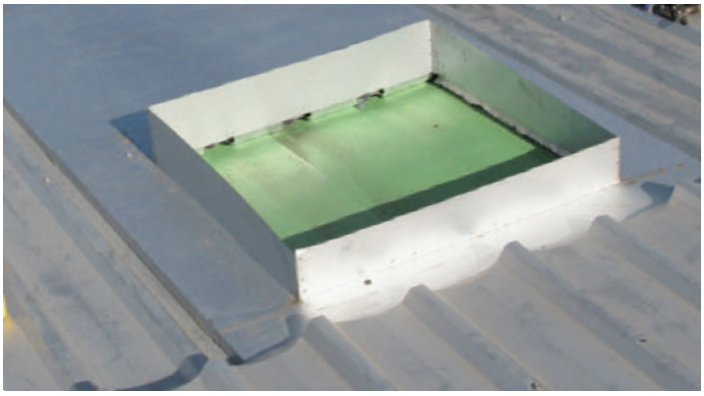
Temperature Differential

The average difference between internal and external temperatures.

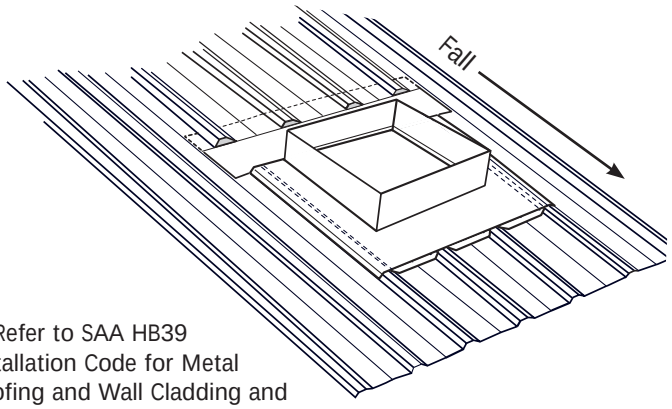
INSTALLATION

1. It is recommended for rotary sizes 500 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 may 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 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” Model ..... (insert) made from *Stainless Steel / 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 workmanlike manner.
*Insert/select whichever required. **Select/insert finish required.

Ampelair
Turbo Ventilators are a quality product from
AMPELITE
Australian owned

Ampelite Australia Pty Ltd ABN 91 487 122 629

AUSTRALIAN MADE

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