

Spinaway



Passive ventilation of roof cavities in homes & offices. Excellent silent running passive turbine ventilator for removing

smoke, damp, hot and stale air. Supplied ready to install. High quality bearing system. Warranty*: 15 Years.

Key Features

- 15 year warranty
- Fully sealed double row permanently lubricated stainless bearing system
- 300mm throat gives excellent exhaust capability
- Low cost
- Supplied with full installation instructions for the DIY person

- No running costs
- Adjustable base fits any roof pitch up to 45°
- 2 high quality precision bearings
- All aluminium construction
- Cyclone approved*
- Powder coated colour finishes available

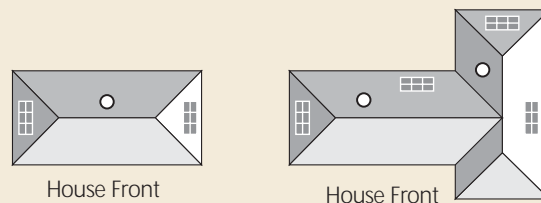
Other Information:

Maximum roof pitch 45° with standard variable pitch base.

* Consult Alsynite NZ for specific cyclonic installation.

How Many Spinaway Ventilators do you Need?

House Size (Sq. Metres)	Number of Spinaways
90-110	1
160-180	2
220-270	3



Accessories and Installation Instructions

Accessories

- Manual, draw-cord and powered damper systems available on request;
- White acrylic adjustable ceiling vents are available for use in internal ceilings;
- Purpose-made ventilator bases can be manufactured for "through ridge" installations and for use with the 150mm, 800mm and 950mm throat Alsynite Industrial Ventilators which are supplied without the variable pitch base i.e. head only.



Square to Round Base



White Ceiling Vent

Installation Instructions

- Each ventilator is supplied with assembly and installation instructions. Refer to the Alsynite NZ Technical Catalogue for full installation instructions.*
- Follow installation instructions carefully;
- Ideally the vents should be positioned at the peak of the roof;
- Attempt to locate all ventilators in an undisturbed airflow from all directions (see Figure 1);
- Avoid installing on a low roof adjacent to vertical walls;
- Ideally ventilator spacing should be 5 metres, and we recommend no closer than 3 metres apart.

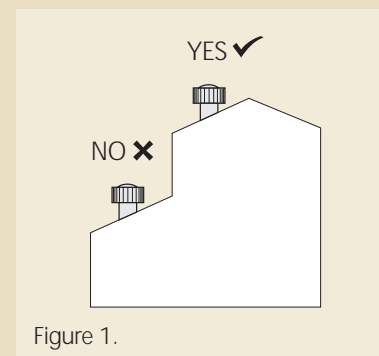


Figure 1.

- Air change rate must conform to local health department codes covering the type of installation.
- Warranty periods stated herein are subject to strict adherence to installation instructions. Refer to Alsynite NZ Technical Catalogue for more information.
- For a copy of the Alsynite NZ Technical catalogue please contact Alsynite NZ Ltd.
- * A licenced Building/Roofing Practitioner may be required to install your ventilator. Consult your local territorial authority.

Your distributor is:

Alsynite NZ Ltd

HEAD OFFICE
PO BOX 10409
TE RAPA, HAMILTON
NEW ZEALAND
PHONE 07 850 5088
FAX 07 850 5003

PO BOX 6083
UPPER RICcarton
CHRISTCHURCH
NEW ZEALAND
PHONE 03 348 3375
FAX 03 348 3376

DISTRIBUTION CENTRES:
200 JOHN F KENNEDY DR
PO BOX 4643
PALMERSTON NORTH
NEW ZEALAND
PHONE 06 356 5384
FAX 06 356 5387

140 MERSEY STREET
INVERCARGILL
NEW ZEALAND
PHONE 03 214 6002
FAX 03 214 6005



Rotary Turbine Ventilators

a breath of fresh air

Rotary Turbine Ventilators

Key Benefits

- 15 year warranty
- Fully sealed double row permanently lubricated stainless bearing system
- Low cost
- Silent running
- Robust aluminium construction
- Easy to install
- Fresh air provides a healthy work environment
- Removes smoke and fumes
- Removes damp stale air
- Eco friendly
- Reduces air-conditioning costs
- Lowers Humidity
- No electricity costs



Roofvent 500



Alsynite Industrial Ventilator



WDV 3000
Dual Ventilator
and Light



Spinaway

Introduction

Factories, warehouses, workshops, houses and even community buildings are frequently constructed without an efficient natural ventilation system for the benefit of occupants.

Should the interior become hot or stale, doors and windows can be opened, however stale and hot air will not disperse by itself. As a result the opening of doors and windows is simply not sufficient to provide ventilation in most buildings.

Unlike doors, windows and static ventilation, Rotary ventilators draw air upwards creating a convection current and in the process they extract stale air, together with air which has become hot as the result of the building's exposure to long hours of sunlight. Heat from manufacturing equipment within the building is also extracted by these efficient ventilators. As the stale and hot air is extracted it is replaced by fresh air at ambient temperature entering through doorways and openings thus completing the convection cycle current and improving the internal environment.

Needless to say, fresh air makes people feel more alive and vitalised whilst stale air causes people to feel lethargic and disinterested. On hot days the movement of air over the body causes evaporation to occur which is the natural way to cool down and helps prevent moderate heat stress.

Alsynite Turbine Ventilators also help prevent condensation by extracting condensation-forming air, and in case of fire will extract smoke and fumes, preventing the building from becoming smoke filled and assisting the occupants to escape to safety.

Ventilation is the natural partner to Alsynite Topglass® Translucent roofing products.

Construction

All Alsynite ventilators are constructed from mill finish high grade aluminium alloy and utilise long life free running stainless steel bearing systems.

Variable Pitch Base and Flashing

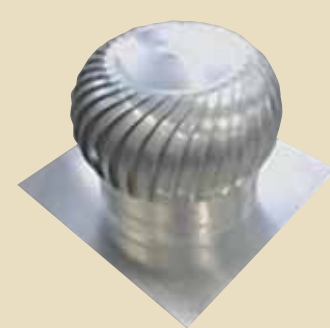
All ventilators, with the exception of 150mm, 800mm and 950mm throat Alsynite Industrial Ventilators, are supplied with a variable pitch base and base flashing which is simply adjusted and fixed in position to suit the pitch of the roof. 150mm, 800mm and 950mm

throat Alsynite Industrial Ventilators can be fitted with purpose-made aluminium bases and in the case of the 150mm version may also be attached to a pipe. Refer to the Alsynite NZ Technical Catalogue for full details.

Colours

Powder coating options are available to match most modern roof colours. Note: Ventilators not supplied or powdercoated by Alsynite NZ will result in the warranty being void.

Roofvent 500



Suitable for light commercial and residential applications, the Roofvent 500 is virtually maintenance free, reduces air-conditioning costs and improves the working environment by providing cooler fresh air with low humidity. Roofvent 500 rotates freely even in the lightest of airs due to the permanently lubricated bearing system.

Warranty*: 15 years.

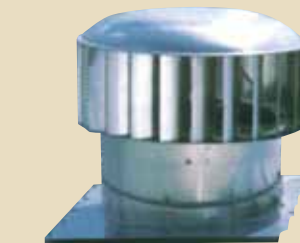
Key Features

- 15 year warranty
- Fully sealed double row permanently lubricated stainless bearing system
- 500mm throat size
- Low cost commercial Rotary roof ventilator
- High performance Aluminium Construction
- Easy to install
- Variable pitch base simple adjust to roof pitch
- No operational costs
- Powder coated colour finishes available
- Base flashing supplied

Other Information:

Maximum roof pitch 22.5° with standard variable pitch base.

Alsynite Industrial Ventilators



A robust silent running passive turbine ventilator specifically developed for passive ventilation of commercial and industrial buildings. 150mm, 300mm, 450mm, 600mm, 800mm & 950mm throat sizes. High quality bearing system

supplied ready to install.

Warranty*: 15 Years.

Throat Sizes

150mm, 300mm, 450mm, 600mm, 800mm, 950mm

Key Features

- 15 year warranty
- No electricity or running costs
- Provides cooler and low humidity working environments
- Simple low cost installation
- High performance high grade alloy construction

- Rust resistant
- Fully sealed double row permanently lubricated stainless bearing system
- Maintenance free
- Robust framework componentry purpose developed for industrial use
- Perfectly balanced vertical wind vanes provides low starting torque
- Advanced Alsynite Ventilation technology ensures the wind vane design offers excellent exhaust capability
- Powder coating option to match modern roof colours

Other Information:

Maximum roof pitch 22.5° with standard variable pitch base.

How many Roofvent 500 & Alsynite Industrial Ventilators do you need?

1. Determine the volume of the building in cubic metres (L x W x H) = VOL
2. Select air changes per hour from table = A/C
3. Select the most suitable number of vents for the roof space with the recommended spacing of 5m. Wider industrial buildings may require one or more ventilators per bay = N
4. Determine litre/sec exhaust capacity required for ventilator for selected number of ventilators = E

And apply equation:

$$E = \frac{VOL \times A/C \times 0.278}{N}$$

5. From local authority records, determine the typical wind speed
6. From Performance Table select the ventilator throat size, which will provide the exhaust rate nearest to but not less than the calculated figure.

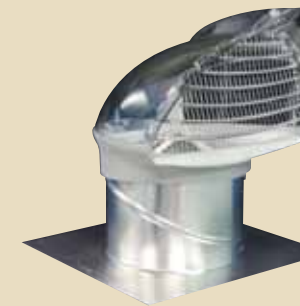
Note: 0.278 converts m3/hr to litres/second.

Performance Table*

Throat Size	150mm	300mm	450mm	500mm	600mm	800mm	950mm
Wind Speed							
6 km/h	110	270	480	533	620	1233	1640
12 km/h	210	480	790	870	1104	2131	2840
16 km/h	280	620	990	1090	1420	2730	3650

* These performances are calculated from the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRE) Guide.
** This performance table is relevant for calculating Alsynite Industrial and Roofvent 500 Ventilators only.

WDV 3000 - Dual Function Ventilation & Light



WDV 3000 is a high quality and revolutionary product which uses technically advantaged aerodynamic principles to simultaneously provide

natural lighting and effective ventilation to roof cavities, attics and office spaces.

Key Features

- 15 year warranty
- Fully sealed double row permanently lubricated stainless bearing system
- 40% Improved Performance over other Skylight Ventilators
- Larger 300mm Hi-flow exhaust outlet
- Hi Impact Polycarbonate Dome and Lens
- Suits all roof types
- Removes damp, hot and stale air
- No energy costs to run
- Reduces the need for air-conditioning and ceiling fan operational costs

- The natural light source discourages termites, insects and rodents from dark ceiling spaces
- Manufactured from corrosion resistant aluminium alloy, stainless steel and UV resistant Polymers
- Supplied ready to install, complete with variable pitch base and malleable roof flashing

Other Information:

- Roof pitch up to 40°
- An average 200m2 Home would require 2 x WDV 3000 Units