



Commercial Product Range



CSR



Established in 1934, Edmonds® is a pioneer in home, commercial and industrial ventilation solutions in Australia as well as across the globe.

Edmonds is passionate about delivering superior comfort and performance whilst reducing the overall impact on the environment. It is this vision of a 'sustainable future' which has resulted in the design and development of many energy efficient innovations. These include natural, wind-driven; hybrid and turbine ventilation technology.

Regarded as a leading industry innovator, Edmonds Ventilation products are engineered and manufactured at its ISO9001 accredited facility in Seven Hills, Australia. Edmonds was awarded the AIRAH Excellence in Sustainability Award in 2013 and Achiever Award in 2008.



It was also recognised with a Good Design Award at the 2013 Australian International Design Awards and Master Builders Australia 2012 National Export Award.

With strong synergies between insulation and ventilation in the building environment, Edmonds was acquired by CSR Building Products Limited in 2005. Its vision remains to create Technologies for a Sustainable Future.



| | |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1934 | Neville Edmonds established Edmonds in Crows Nest, NSW. His goal was to reproduce the S Rotor ventilator in Australia. |
| 1980's | <p>1981 Acquired by Norm McDonald, an industrial draughtsman working with ventilation products through HH Robinson.</p> <p>1989 Hurricane® vertical vane natural ventilator launched in the Australian Market.</p> |
| 1990's | <p>1991 Acquired distribution rights to import the first mass shipment of Whirlybird® from USA.</p> <p>1994 Launch of SupaVent.</p> <p>1996 First interstate office in Brisbane, QLD.</p> <p>1998 Majority purchased by Cornelius Vanderstar, a U.S. industrialist.</p> <p>1999 Launch WindMaster™.</p> <p>2000 Launch EcoFan™ subfloor ventilator.</p> |
| 2000's | <p>2004 In a world first, Edmonds' R&D team invented the true hybrid ventilator – EcoPower®.</p> <p>2005 Bradford acquires Edmonds due to synergies with ventilation and insulation.</p> |
| 2010's | <p>2008 AIRAH's 2008 Award for Excellence in HVAC.</p> <p>2009 Achieved Global Mark's Quality Management standard ISO 9001.</p> <p>2010 Relocated to Seven Hills due to factory and warehouse expansion.</p> <p>2012 Launch Odyssey®.</p> <p>2013 AIRAH 2013 Awards - Excellence in Sustainability for Odyssey.</p> <p>2015 Winner Good Design Award at the 2013 Australian International Design Awards.</p> <p>Safety record – nil accidents 8 years running.</p> |

The Whirlybird® are registered trademarks of Lomanco Inc of USA.

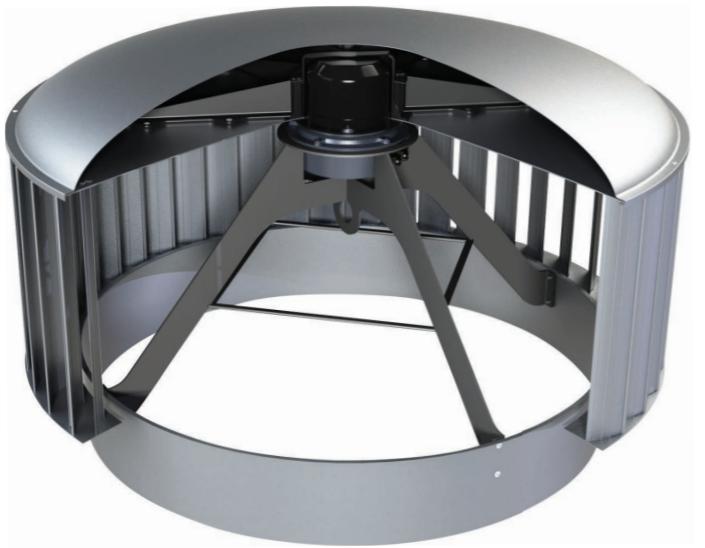
PRODUCT SELECTOR

| Product | Wind driven, natural ventilation | | | | | Hybrid Ventilation | | Mechanical Air Filtration | Accessories | | |
|-------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------|-------------------|---------------------|---------------|--------------------|----------|---------------------------|--------------------------------|----------|----------------------------|
| | Hurricane® H | Hurricane® S2 | Hurricane® HI | Hurricane® BFR | Hurricane® FR | EcoPower® | Odyssey® | Sonair® | Special base | Dampers | Grilles and Damper Grilles |
| External Environment | Standard | Harsh and moisture rich environment | Harsh environment | Bushfire prone area | Fire Release | Standard | Standard | Standard | Standard and harsh environment | Standard | Standard |
| Schools, Colleges and Universities | | | | | | | | | | | |
|  | Mix-use halls, bathrooms, change rooms | ● | | | ● | ● | ● | | ● | ● | ● |
| | Classrooms or lecture halls | ● | | | ● | ● | ● | ● | ● | ● | ● |
| | Laboratories | ● | | | ● | ● | ● | | ● | ● | ● |
| | Computer labs, data centers, server rooms | | | ● | ● | ● | | | ● | ● | ● |
| Retail | | | | | | | | | | | |
|  | Restrooms, parenting rooms, bathrooms | ● | | | ● | ● | ● | | ● | ● | ● |
| | Shops, arcades & centers, showrooms | ● | | | ● | ● | ● | | ● | ● | ● |
| | Carparks: enclosed and multi storey | | | ● | ● | ● | | | ● | ● | ● |
| Multi-Res | | | | | | | | | | | |
|  | Units, townhouses | ● | | | ● | ● | ● | ● | ● | ● | ● |
| | Apartments | | | ● | ● | ● | | ● | ● | ● | ● |
| | Carparks: enclosed and multi storey | ● | | ● | ● | ● | ● | | ● | ● | ● |
| Industrial | | | | | | | | | | | |
|  | Water and sewerage plants, pipes and storage | | ● | | ● | ● | | | ● | ● | |
| | Power stations, substations | ● | | | ● | ● | ● | | ● | ● | |
| | Food & beverage processing plants | | | | ● | ● | | | ● | | |
| | Abattoirs, Breweries, Dairies, Bakeries, Wineries | ● | | | ● | ● | ● | | ● | ● | |
| | Silos, Grain elevators | ● | | | ● | ● | | | ● | ● | |
| Commercial | | | | | | | | | | | |
|  | Offices | ● | | | ● | ● | ● | ● | ● | ● | ● |
| | Carparks: enclosed and multi storey | | | | ● | ● | ● | | ● | ● | |
| | Warehouse storage | ● | | | ● | ● | ● | | ● | ● | |
| | Data centers / server room | ● | | | ● | ● | ● | | ● | ● | ● |
| Warehouse, Manufacturing, Factories: Light industries | | | | | | | | | | | |
|  | Caustic Soda, sulphuric acid handling facilities | | ● | ● | ● | ● | | | ● | ● | |
| | Light chemical fumes concentration | ● | ● | ● | ● | ● | | | ● | ● | |
| | Welding/powder coating facilities | ● | | | ● | ● | ● | | ● | ● | |
| | Exhaust fumes - Petrol, diesel | ● | | | ● | ● | ● | | ● | ● | |
| | Bathrooms, change rooms | ● | | | ● | ● | ● | | ● | ● | ● |
| | Storage warehouse | ● | | | ● | ● | ● | | ● | ● | |
| | Flammable material storage | | ● | ● | ● | ● | | | ● | ● | |
| | Carparks: enclosed and multi storey | | | ● | ● | ● | ● | | ● | ● | |
| Public, Sporting and Social Buildings | | | | | | | | | | | |
|  | Police, ambulance, fire stations | ● | | | ● | ● | ● | | ● | ● | |
| | Airport, bus, rail & sea | ● | | | ● | ● | ● | | ● | ● | |
| | Religious Buildings, chapels | ● | | | ● | ● | ● | | ● | ● | |
| | Community centres, Youth centres | ● | | | ● | ● | ● | ● | ● | ● | ● |
| | Retirement villages | ● | | | ● | ● | ● | ● | ● | ● | ● |
| | Sports, gyms, stadiums, auditoriums & townhalls | ● | | | ● | ● | ● | ● | ● | ● | |
| | Aquatic centers, swimming pools | | ● | ● | ● | ● | ● | | ● | ● | |
| | Carparks: enclosed and multi storey | | | ● | ● | ● | ● | | ● | ● | |
| Agricultural | | | | | | | | | | | |
|  | Poultry coop, pigpen/sty | | ● | ● | ● | ● | | | ● | ● | |
| | Stable | | ● | ● | ● | ● | | | ● | ● | |
| | Root cellar | | | ● | ● | ● | | | ● | ● | |
| | Hatcheries | ● | | | ● | ● | ● | | ● | ● | |

TRUE HYBRID™ VENTILATION TECHNOLOGY

EcoPower® TECHNICAL DATA SUMMARY

In a world first, EcoPower® is a hybrid ventilation unit which incorporates Australian - engineered True-Hybrid™ technology. EcoPower is capable of operating unhindered in natural wind mode, or in both natural and energy efficient mechanical modes simultaneously.



FEATURES & BENEFITS

UNIQUE OPEN THROAT DESIGN

Patented hybrid ventilator design that enables an open throat to improve airflow performance

HIGH EFFICIENCY EC MOTOR

- Advanced ebm-papst EC motor for long lasting performance and durability

VERTICAL VANE™ TECHNOLOGY

- High performance, unique design allows ventilator turbine to act as a centrifugal impeller

INSTALLATION BENEFITS

- Lightweight design (<40kg). Two-person installation may be achieved
- Variable pitch base design can adapt to most roof angles
- Special bases can be custom made for known roof angle

SINGLE PHASE INPUT

- Ideal for retrofitting

QUIET OPERATION

- Virtually inaudible from typical background sound pressures, at 45.5 dB(A) at 3m for EP900, even in power mode

EP900 CONTROLS*

- Variable speed control via 0-10V input or temperature sensors that responds to factory pre-set range
- On/off control through optional external temperature and humidity controllers

* EP900 model only. Must be specified at the time of purchase.

Refer to page 10 for more details

WARRANTY

- EP400, EP600 and EP 900: 10 year warranty for turbine body/2 year warranty for motor and accessories
- EP100 and EP150: 5 year warranty for turbine body/2 year warranty for accessories/1 year warranty motor

Refer to website for terms and conditions

| Model | EP100 | EP150 | EP400 | EP600 | EP900 |
|--------------------------------------------------------|------------------------------|---------|-----------------------------|-------------|-------------------|
| Power Source | Hybrid - Wind and electrical | | | | |
| Dimensions on varipitch* | | | | | |
| Height Overall (mm) | 323 | 343 | 574 | 734 | 962 |
| Diameter Turbine (mm) | 290 | 332 | 561 | 766 | 1093 |
| Flashing Length (mm) | 430 | 430 | 750 | 1000 | 1200 |
| Flashing Width (mm) | 430 | 430 | 700 | 1000 | 1200 |
| Throat area (m²) | 0.009 | 0.019 | 0.132 | 0.285 | 0.632 |
| Mass*(kg) | 2.5 | 2.7 | 9.4 | 18.2 | 36.0 |
| Material | | | | | |
| Turbine Top | | | | | Aluminium 5005 |
| Varipitch | | | | | Aluminium 5005 |
| Flashing | | | | | Aluminium 5005 |
| Finish | | | | | Mill / Powdercoat |
| Roof slope range - varipitch | 0-45° | 0-45° | 0-45° | 0-45° | 0-22.5° |
| Sound | | | | | |
| Sound Pressure Level (LA) @ 3m distance & ΔP=0 (dB(A)) | n/a | n/a | 46 | 49 | 45.5 |
| Electrical | | | | | |
| Phase | n/a | n/a | Single | Single | Single |
| Motor | | | Electronic Commutating (EC) | | |
| Input Voltage | 6-9 VDC | 6-9 VDC | 200-277 VAC | 200-277 VAC | 200-277 VAC |
| Input Voltage (Hz) | n/a | n/a | 50/60 | 50/60 | 50/60 |
| Max. running current draw (A) | 1 | 1.1 | 0.28 | 0.47 | 1.21 |
| Max. running power consumption (W) | 9 | 9.9 | 68 | 116 | 260 |
| Flow rate at ΔP=0 | | | | | |
| m³/hr | 116 | 255 | 2,400 | 4,280 | 10,000 |
| m³/s | 0.032 | 0.071 | 0.67 | 1.19 | 2.78 |
| l/hr | 116,000 | 255,000 | 2,400,000 | 4,280,000 | 10,000,800 |
| l/s | 32.2 | 70.8 | 667 | 1,189 | 2,778 |
| Accessories | | | | | |
| Electric Dampers | No | No | Yes | Yes | Yes |
| Temperature Variable Speed Control | No | No | No | No | Yes |
| Thermostat | Yes | Yes | Yes | Yes | Yes |
| Humidistat | Yes | Yes | Yes | Yes | Yes |
| 0-10V variable speed control | No | No | No | No | Yes |
| Special bases - spigot slope | No | No | Yes | Yes | Yes |
| Special bases - spigot ridge | No | No | Yes | Yes | Yes |
| Special bases - square to round slope | No | No | Yes | Yes | Yes |
| Special bases - square to round ridge | No | No | Yes | Yes | Yes |
| Special bases - spigot curb mount | No | No | Yes | Yes | Yes |
| Special bases - square to round pyramid | No | No | Yes | Yes | Yes |
| Special bases - spigot pyramid | No | No | Yes | Yes | Yes |
| Special bases - EX base | No | No | Yes | Yes | Yes |
| Sparkguard | No | No | Yes | Yes | Yes |
| Australian designed and built | Yes | Yes | Yes | Yes | Yes |
| Manufactured in ISO 9001 facility | Yes | Yes | Yes | Yes | Yes |

* Tolerance: Dimension +/- 5mm. Weight +/- 0.5kg

Flow rate figures are based on testing conducted by CSR Edmonds and in accordance to ISO5801. Published flow rate results are optimal figures based on precision testing input and the other formulas are derived from fluid mechanics. Application results may vary due to external environmental factors, internal heat load, supply air capacity, construction materials and installation factors etc.



EcoPower® EP900 operation can be controlled either by simple on/off manual switch or via in-line digital devices that control power to the motor.

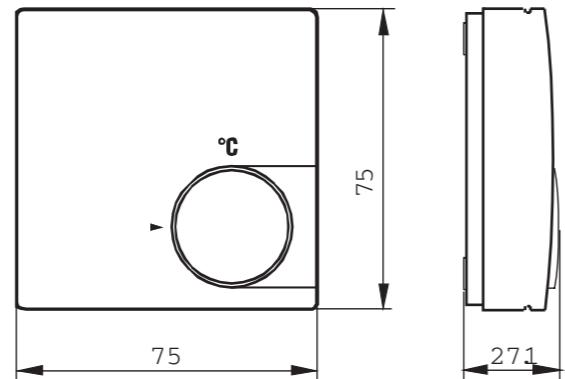


EcoPower® EP900 CONTROL OPTIONS

Due to the highly flexible technology incorporated in hybrid ventilation, the operation of an EP900 model can be controlled using:

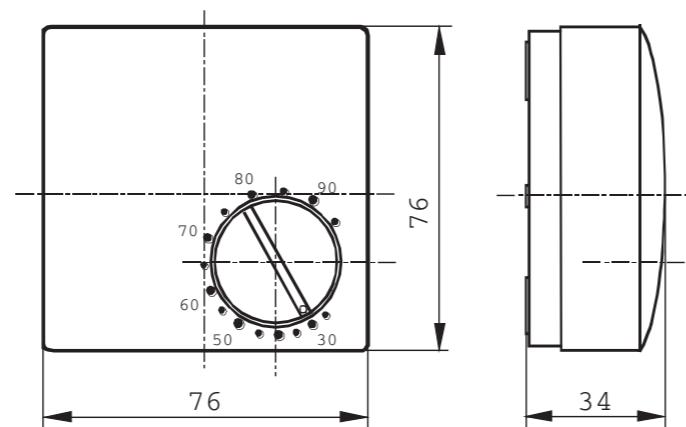
1. THERMOSTAT:

A thermostat will activate EP900 into mechanical mode once the temperature in the building passes a set point. When the temperature in the building falls below a chosen temperature, set by the user via a dial, EP900 will exit mechanical mode and return to natural wind mode only.



2. HUMIDISTAT:

Similar to thermostat, a humidistat will activate the EP900 into mechanical mode once the humidity levels in the building passes a set point. When the humidity levels in the building drop below a chosen humidity point, set by the user via a dial, EP900 will exit mechanical mode and return to natural wind mode only.



*Dimension in mm

The custom designed EP900 EC motor supplied by ebm-papst (Germany) allows for additional variable speed control capabilities:

3. 0 - 10V VARIABLE SPEED CONTROL:

Direct speed control through 0-10V signal, which can be integrated into a Building Management System if required. An in-house design connection box is installed to enable the easy fit of a CAT 5e cable.

4. TEMPERATURE SENSOR VARIABLE SPEED CONTROL:

The temperature sensor is factory pre-programmed to power up at 27°C, as measured by the temperature in the throat of the ventilator, then follow a speed ramp up rate which is established by setting a full speed maximum temperature at 40°C. Alternative temperature range, can be specified at time of purchase.

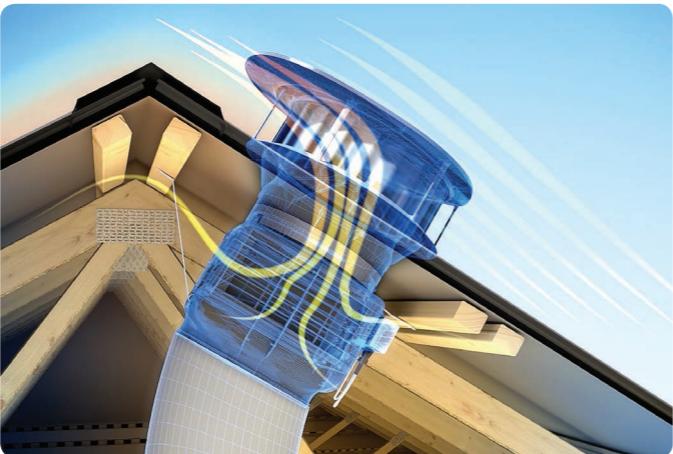
BENEFITS OF TEMPERATURE SENSOR

- Allows zone programming of vents i.e. zone 1 may be programmed to commence in mechanical mode at 25°C, zone 2 at 28°C etc.
- Increased flexibility and control versus simple on/off operation
- Enable automated and simultaneous reaction to variable ambient conditions
- Variable speed operation further improves the energy efficiency of EP900. The current draw is proportional to the flow rate need.

Edmonds' factory in Seven Hills NSW, Australia was the first installation in the world to use the EP900 integrated temperature sensor control. The resulting factory conditions have proved highly satisfactory for workers. Visitors are welcome to experience the benefits of the temperature programmed EP900 installation.

Note: An electrician is required to complete all electrical work. All of the above methods of control options for EP900 (including dampers) are optional accessories that need to be specified at time of purchase.

Odyssey® is a smart, energy efficient, free air cooling system for homes, schools and light commercial use such as offices. It provides thorough ventilation to remove odours, allergens and freshen the air.



FEATURES & BENEFITS

ENERGY EFFICIENT

- Award winning, energy efficient hybrid technology improves occupant comfort as well as reducing the load on air conditioners

INSTALLATION BENEFITS

- The sleek roof mounted ventilator is ducted through your roof space to a discrete ceiling vent

YEAR ROUND COMFORT

- Keeps you cooler in summer by expelling hot air and drawing in cooler night air
- In winter, warmer outside air is drawn in to improve comfort levels

HUMIDITY CONTROL AND MOISTURE REMOVAL

- Improves comfort by removing moisture and condensation from the environment

SUITABLE FOR HOME OR OFFICE APPLICATIONS

- Single unit is suitable for area up to 150m², with two units recommended for 150m² - 300m²



| Model | Odyssey® | |
|--------------------------------------------------------|----------------------------------------------|----------------|
| Power Source | Hybrid - Wind and electrical | |
| Dimensions Turbine with flashing (mm) | | |
| Height Overall | 316 | |
| Width overall | 700 | |
| Length overall | 800 | |
| Throat area (m ²) | 0.112 | |
| Mass (kg) | | |
| Turbine | 9.21 | |
| Diverter valve | 2.97 | |
| Ceiling Grille | 1.06 | |
| Roof slope range | 3 - 35° | |
| Turbine speed (RPM) | Cooling 430 | Heating 250 |
| Flow rate capacity ΔP=0 | | |
| m ³ /hr | 2100 | 1150 |
| m ³ /s | 0.583 | 0.319 |
| l/hr | 2,100,000 | 1,150,000 |
| l/s | 583 | 319 |
| Material | | |
| Turbine Top | ASA & PPS-GF40 | |
| Flashing | Aluminium 5005 | |
| Diverter valve | ASA & PA6-GF30 | |
| Colours | Headland, Night Sky, Surfmist, Woodland Grey | |
| Sound | | |
| Sound Pressure Level (LA) @ 2m distance & ΔP=0 (dB(A)) | 30 | |
| Electrical | | |
| Phase | Single phase | |
| Motor | Electronic Commutating (EC) | |
| Input Voltage | 200-240 VAC | |
| Input Voltage (Hz) | 50-60 | |
| Max. running current draw (A) | 0.23 | |
| Max. running power consumption (W) | 55 | |
| Sensors | | |
| Temperature min-max | -10 - 85° | |
| Temperature accuracy (°) | +/- 0.4° | |
| Relative humidity min-max (%) | 0-100 | |
| Relative humidity accuracy (%) | +/-3% | |
| Australian designed and built | Yes | |
| Manufactured in ISO 9001 facility | Yes | |
| Tested to AS4740 | Yes | |

*Tolerance: Dimension +/- 5mm, Weight +/- 0.5kg

MECHANICAL AIR VENTILATION

Sonair® improves indoor air quality (IAQ) by effectively delivering fresh, filtered air, removing dust and airborne pollutants through mechanical filtration.



FEATURES & BENEFITS

DELIVERS FRESH AIR TO BUILDING OCCUPANTS

- Ideal for applications where windows need to be closed due to noise, odours, fumes and dust

EASY TO MAINTAIN

- Simple once-a-year filter replacement (or as needed for more polluted areas)

FILTER SELECTION

- Standard particle G3 filter for normal use or optional F9K carbon filter for filtering fine dusts and odours

VARIABLE AND CONTROLLABLE AIR FLOW RATE

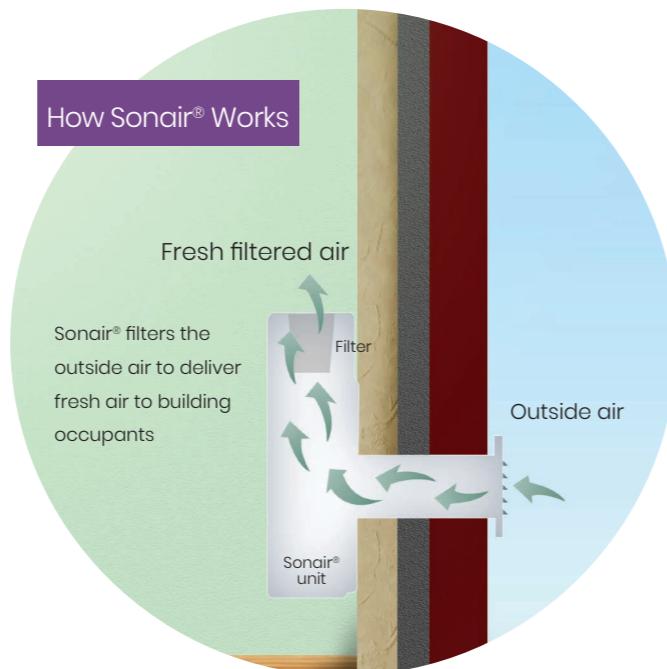
- Air flow of up to 225m³/hr using G3 filter

QUIET OPERATION

- Sound absorbing chamber reduces noise to a virtually inaudible 23dBA at normal speed

LOW ENERGY CONSUMPTION

2 YEAR WARRANTY



Sonair®

TECHNICAL DATA SUMMARY

| Model | Sonair F+ |
|-------------------------------------------------------|----------------------------|
| Power Source | Electrical |
| Dimensions (mm) | |
| Height Overall | 445 |
| Width | 310 |
| Depth | 134 |
| Mass (kg) | 5.5 |
| Material | |
| Housing | ABS |
| Electrical | |
| Phase | Single |
| Input Voltage (Hz) | 50 |
| Protection class | 2 |
| Input Voltage (VAC) | 220-240 |
| Max. running power consumption (W) | 52.3 |
| Main cable length (m) | 1.8 |
| Flow Rate | |
| G3 filter (m ³ /hr) | Adjustable between 0 - 225 |
| Sound | |
| G3 filter @ 60 m ³ /hr (dBA) Typical speed | 23 |
| G3 filter @ 225 m ³ /hr (dBA) Max. speed | 56 |
| Power consumption | |
| G3 filter @ 60 m ³ /hr (W) | 9.6 |
| G3 filter @ 225 m ³ /hr (W) | 52.3 |

Special Bases are designed to aid in the installation of Hurricane® and EcoPower® ventilators. The custom made bases are used on steep angled roofs that exceed the adjustable limits of the varipitch, when additional clearance is needed to avoid wind shadows or when inclusion of a damper is required.

EDMONDS HAS 3 PRIMARY TYPES OF SPECIAL BASES:

1. Round Spigot bases:

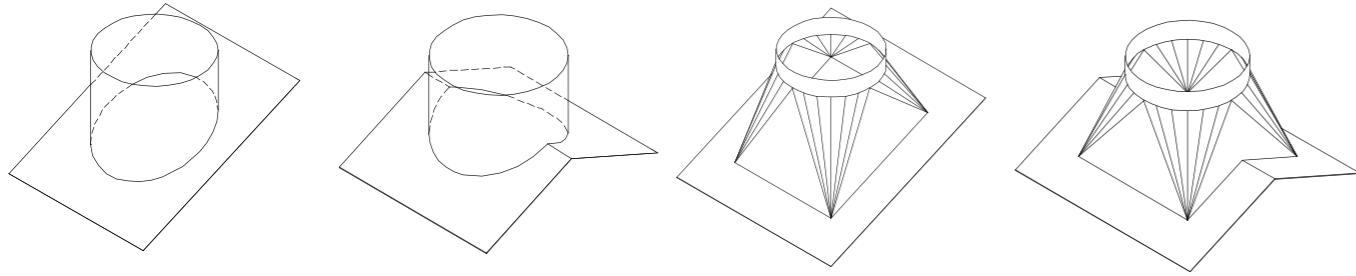
Commonly used on old saw tooth roofs with characteristic steep pitch

2. Square to Round bases

Provide additional strength, flow rate and weather tightness

3. EX bases

EX base is a spigot neck sent to site rolled but not fastened. The ends of neck can be fasten on site via pre-laser cut holes



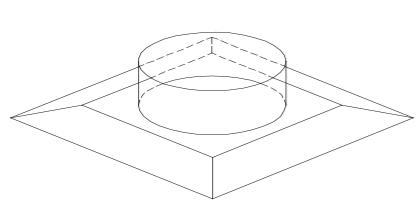
Type 1

Spigot Slope Base

Type 2 Spigot Ridge Base

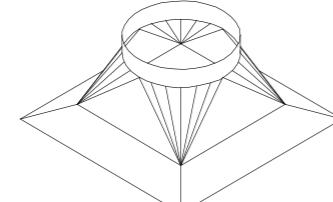
Type 3 Square to Round Slope

Type 4 Square to Round Ridge

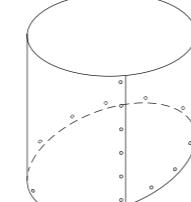


Type 6

Square to Round Curb Mount



Type 7 Spigot Pyramid Base



EX Base

| Type 1 Spigot slope base | | | | | | | | | | |
|--------------------------|----------------------|-----------------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|
| Compatible with | | Hurricane EcoPower | H300 n/a | H400 EP400 | H450 n/a | H500 n/a | H600 EP600 | H700 n/a | H800 n/a | H900 EP600 |
| Min-max angle | | 0 - 45 | 0 - 45 | 0 - 45 | 0 - 45 | 0 - 45 | 0 - 45 | 0 - 45 | 0 - 35 | 0 - 35 |
| Dimensions* (mm) | A Flashing length | 600 | 750 | 750 | 750 | 1000 | 1000 | 1200 | 1200 | |
| | B Flashing width | 500 | 700 | 700 | 700 | 1000 | 1000 | 1200 | 1200 | |
| | Throat opening Ø | 305 | 405 | 458 | 507 | 598 | 699 | 795 | 895 | |
| | Height overall (min) | 220 | 270 | 295 | 320 | 370 | 420 | 470 | 520 | |

| Type 2 Spigot ridge base | | | | | | | | | |
|----------------------------------|-----------------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|--------|
| Compatible with | Hurricane EcoPower | H300 n/a | H400 EP400 | H450 n/a | H500 n/a | H600 EP600 | H700 n/a | H800 n/a | |
| Min-max angle | 0 - 60 | 0 - 60 | 0 - 60 | 0 - 60 | 0 - 60 | 0 - 60 | 0 - 60 | 0 - 55 | 0 - 55 |
| Dimensions* (mm) | | | | | | | | | |
| A Flashing length | 600 | 750 | 750 | 750 | 1000 | 1000 | 1200 | 1200 | |
| B Flashing width | 500 | 700 | 700 | 700 | 1000 | 1000 | 1200 | 1200 | |
| Throat opening Ø | 305 | 405 | 458 | 507 | 598 | 699 | 795 | 895 | |
| Height overall min (no damper) | 150 | 150 | 150 | 150 | 150 | 150 | 200 | 250 | |
| Height overall min (with damper) | 220 | 270 | 295 | 320 | 370 | 420 | 470 | 520 | |

| Type 3 Square to round slope | Hurricane EcoPower | H300 n/a | H400 EP400 | H450 n/a | H500 n/a | H600 EP600 | H700 n/a | H800 n/a | H900 EP600 |
|------------------------------|-----------------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|
| Compatible with | | | | | | | | | |
| Min-max angle | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 45 | 0.5 - 45 | 0.5 - 45 | 0.5 - 45 | 0.5 - 30 | 0.5 - 30 |
| Dimensions (mm)* | | | | | | | | | |
| A Flashing length | 375 | 500 | 560 | 620 | 750 | 870 | 995 | 1120 | |
| B Flashing width | 375 | 500 | 560 | 620 | 750 | 870 | 995 | 1120 | |
| Throat opening Ø | 305 | 405 | 458 | 507 | 598 | 699 | 795 | 895 | |
| Height overall (min) | 310 | 360 | 385 | 410 | 460 | 510 | 560 | 610 | |

| Type 4 Square to round ridge | | | | | | | | | | |
|------------------------------|--|-----------------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|
| Compatible with | | Hurricane EcoPower | H300 n/a | H400 EP400 | H450 n/a | H500 n/a | H600 EP600 | H700 n/a | H800 n/a | H900 EP600 |
| Min-max angle | | 0 - 60 | 0.5 - 60 | 0 - 60 | 0 - 45 | 0 - 45 | 0 - 45 | 0 - 30 | 0 - 30 | |
| Dimensions (mm) | | A Flashing length | 375 | 500 | 560 | 620 | 750 | 870 | 995 | 1120 |
| | | B Flashing width | 375 | 500 | 560 | 620 | 750 | 870 | 995 | 1120 |
| | | Throat opening Ø | 305 | 405 | 458 | 507 | 598 | 699 | 795 | 895 |
| | | Height overall (min) | 310 | 360 | 385 | 410 | 460 | 510 | 560 | 610 |

| Type 6 Square to round curb mount | | | | | | | | | |
|-----------------------------------|----------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|
| Compatible with | | H300 n/a | H400 EP400 | H450 n/a | H500 n/a | H600 EP600 | H700 n/a | H800 n/a | H900 EP600 |
| Min-max angle | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 |
| Dimensions* (mm) | | | | | | | | | |
| A Flashing length | 375 | 500 | 560 | 620 | 750 | 870 | 995 | 1120 | |
| B Flashing width | 375 | 500 | 560 | 620 | 750 | 870 | 995 | 1120 | |
| Throat opening Ø | 305 | 405 | 458 | 507 | 598 | 699 | 795 | 895 | |
| Height overall (min) | 310 | 360 | 385 | 410 | 460 | 510 | 560 | 610 | |

| Type 7 Spigot pyramid base | | | | | | | | | |
|----------------------------|----------------------------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|
| Compatible with | | H300 n/a | H400 EP400 | H450 n/a | H500 n/a | H600 EP600 | H700 n/a | H800 n/a | H900 EP600 |
| Min-max angle | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 | 0.5 - 60 |
| Dimensions* (mm) | A Flashing length | 400 | 500 | 600 | 650 | 700 | 800 | 950 | 1050 |
| | B Flashing width | 400 | 500 | 600 | 650 | 700 | 800 | 950 | 1050 |
| | Throat opening Ø | 305 | 405 | 458 | 507 | 598 | 699 | 795 | 895 |
| | Height overall min (no damper) | 150 | 150 | 150 | 150 | 150 | 150 | 200 | 250 |
| | Height overall min (with damper) | 220 | 270 | 295 | 320 | 370 | 420 | 470 | 520 |

| EX Base | | | | | | | | | | |
|------------------|--|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Compatible with | | Hurricane | H300 | H400 | H450 | H500 | H600 | H700 | H800 | H900 |
| | | EcoPower | n/a | EP400 | n/a | n/a | EP600 | n/a | n/a | EP600 |
| Min-max angle | | 0 - 6 | 0 - 6 | 0 - 6 | 0 - 6 | 0 - 6 | 0 - 6 | 0 - 6 | 0 - 6 | 0 - 6 |
| Dimensions* (mm) | | Height overall (min) | 190 | 250 | 290 | 315 | 340 | 340 | 365 | 390 |
| | | Throat opening Ø | 305 | 405 | 458 | 507 | 598 | 699 | 795 | 895 |

EX Base is a neck only product, additional flashing will be required to complete the base of the product.

| | |
|------------------------------------|-----------------------|
| Finish | Mill/Powercoat |
| Materials | Aluminium 5005 |
| Australian Design and built | Yes |
| Manufactured in ISO 9001 Facility | Yes |

Maximum overall height and total weight are dependent on angle specified.

* Tolerance: Dimension +/- 5mm

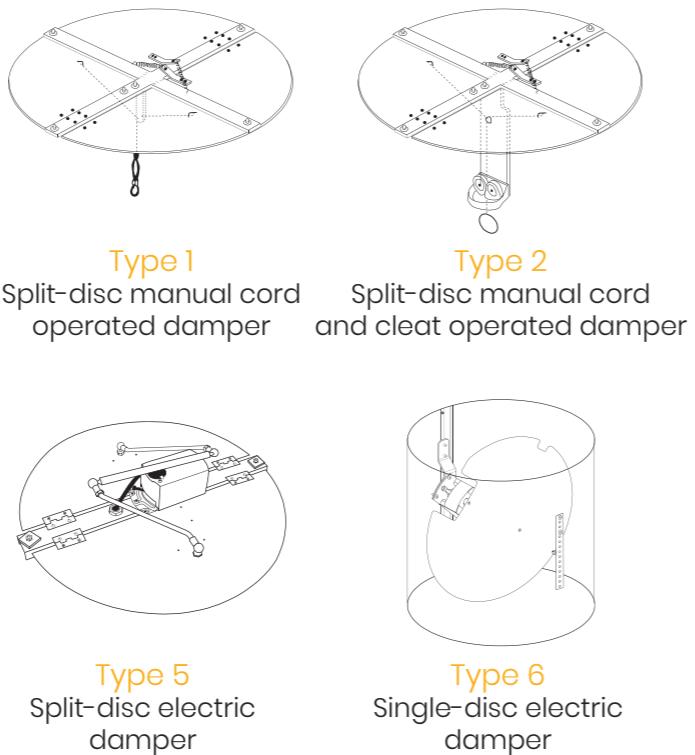
ACCESSORIES - DAMPERS & GRILLES

DAMPERS

In certain applications such as colder climates, dampers are used to retain heat by closing ventilators during colder months.

Single disc or split disc dampers can be operated via:

1. Manual cord operation
2. Electric motor



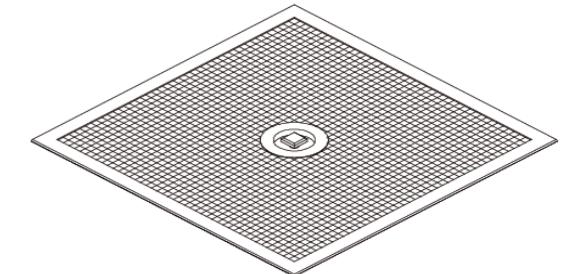
Damper size compatibility chart

| Compatible with | Hurricane | H300 | H400 | H450 | H500 | H600 | H700 | H800 | H900 |
|-----------------|-----------|------|-------|------|------|-------|------|------|------|
| EcoPower | n/a | | EP400 | n/a | n/a | EP600 | n/a | n/a | n/a |
| Type | | | | | | | | | |
| 1 | • | • | • | • | • | • | • | • | • |
| 2 | • | • | • | • | • | • | • | • | • |
| 5 | • | • | • | • | • | • | • | • | • |
| 6 | • | • | • | • | | | | | |

GRILLES

The EggCrate (EC) grilles allow air supply to be drawn from the enclosed area of a building i.e. classroom or office.

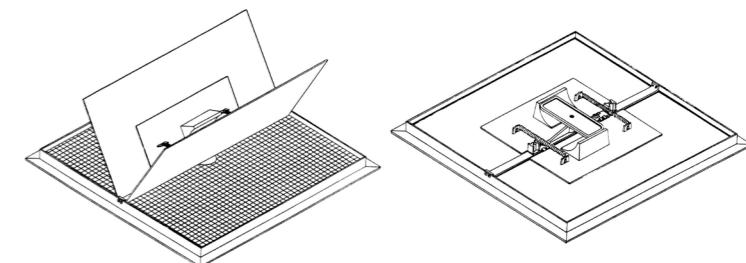
The grilles are used in indoor environment where regular fresh air replenishment is required, such as retail outlets, hotels, and other commercial applications. The aluminium grille is powered coated white to provide durability and rigidity to the construction.



Egg Crate (EC) Grille

| Model* | 400 | 450 | 500 | 600 | 700 | 800 |
|--------------------|------------------|-----|-----|-----|-----|-----|
| Overall length | 459 | 509 | 559 | 659 | 759 | 859 |
| Overall width | 459 | 509 | 559 | 659 | 759 | 859 |
| Neck size | 395 | 445 | 495 | 595 | 695 | 795 |
| Overall depth | 35 | 35 | 35 | 35 | 35 | 35 |
| Grill opening size | 383 | 433 | 483 | 583 | 683 | 783 |
| Material | Aluminium | | | | | |
| Finish | Powdercoat white | | | | | |

*Model size equates to hole size in ceiling. All sizes in mm with +/- 3mm tolerances



Egg Crate (EC) Damper Grille

| Model | 400 | 595 |
|--------------------------------|------------------|-----|
| Overall length | 459 | 595 |
| Overall width | 459 | 595 |
| Neck size | 395 | 552 |
| Grill opening size | 383 | 540 |
| Overall depth with damper open | 175 | 250 |
| Material | Aluminium | |
| Grille | Aluminium | |
| Damper | PVC | |
| Finish | Powdercoat white | |
| Grille | Powdercoat white | |
| Damper | White | |

*All sizes in mm with +/- 3mm tolerances

AUSTRALIAN DESIGNED



Building technologies for a sustainable future is our passion. All of the Research and Development is conducted at our Seven Hills, NSW facility. We work with leading universities and industry leaders such as the CSIRO to ensure that Bradford ventilators are engineered and purpose built for the Australian climate. We also proudly support Australian manufacturing and giving back to our local communities.



1300 858 674

www.bradfordventilation.com.au

Bradford Ventilation

PO Box 231, Seven Hills, NSW 1730, Australia

EcoPower®, Hurricane®, Odyssey® are registered trade marks of CSR Building Products Limited ABN 55008631356.

The content of this publication are the property of Bradford Ventilation, and may not be reproduced unless written permission is granted. Specifications and data are subject to change without notice. Every care has been taken to ensure the accuracy of the information contained within, but no liability can be accepted for any loss or damage whether direct, indirect or consequential due to the use of information contained herein.

Copyright 2019