



## Commercial Product Range





*Technologies for a Sustainable Future*

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.



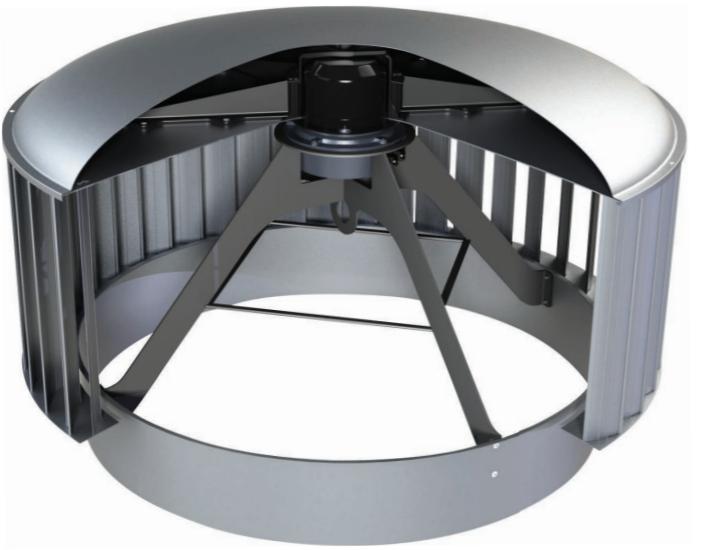
1934	Neville Edmonds established Edmonds in Crows Nest, NSW. His goal was to reproduce the S Rotor ventilator in Australia.
1980's	
1981	Acquired by Norm McDonald, an industrial draughtsman working with ventilation products through HH Robinson.
1989	Hurricane® vertical vane natural ventilator launched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

# 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
<b>Schools, Colleges and Universities</b>											
	Mix-use halls, bathrooms, change rooms	●			●	●	●		●	●	●
	Classrooms or lecture halls	●			●	●	●	●	●	●	●
	Laboratories	●			●	●	●		●	●	●
	Computer labs, data centers, server rooms			●	●	●			●	●	●
<b>Retail</b>											
	Restrooms, parenting rooms, bathrooms	●			●	●	●		●	●	●
	Shops, arcades & centers, showrooms	●			●	●	●		●	●	●
	Carparks: enclosed and multi storey			●	●	●			●	●	●
<b>Multi-Res</b>											
	Units, townhouses	●			●	●	●	●	●	●	●
	Apartments			●	●	●		●	●	●	●
	Carparks: enclosed and multi storey	●		●	●	●	●		●	●	●
<b>Industrial</b>											
	Water and sewerage plants, pipes and storage		●		●	●			●	●	
	Power stations, substations	●			●	●	●		●	●	
	Food & beverage processing plants				●	●			●		
	Abattoirs, Breweries, Dairies, Bakeries, Wineries	●			●	●	●		●	●	
	Silos, Grain elevators	●			●	●			●	●	
<b>Commercial</b>											
	Offices	●			●	●	●	●	●	●	●
	Carparks: enclosed and multi storey				●	●	●		●	●	
	Warehouse storage	●			●	●	●		●	●	
	Data centers / server room	●			●	●	●		●	●	●
<b>Warehouse, Manufacturing, Factories: Light industries</b>											
	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			●	●	●	●		●	●	
<b>Public, Sporting and Social Buildings</b>											
	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			●	●	●	●		●	●	
<b>Agricultural</b>											
	Poultry coop, pigpen/sty		●	●	●	●			●	●	
	Stable		●	●	●	●			●	●	
	Root cellar			●	●	●			●	●	
	Hatcheries	●			●	●	●		●	●	



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 (m <sup>2</sup> )	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					
m <sup>3</sup> /hr	116	255	2,400	4,280	10,000
m <sup>3</sup> /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.

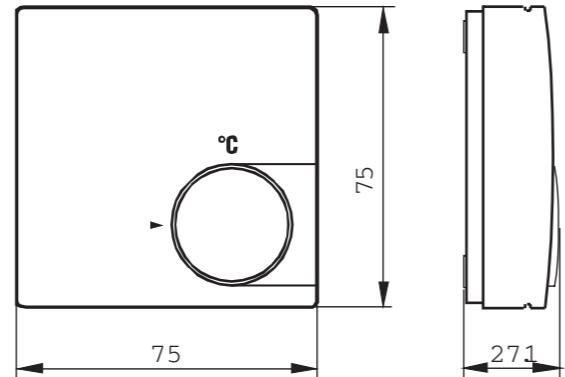


## EcoPower® EP900 CONTROL OPTIONS

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

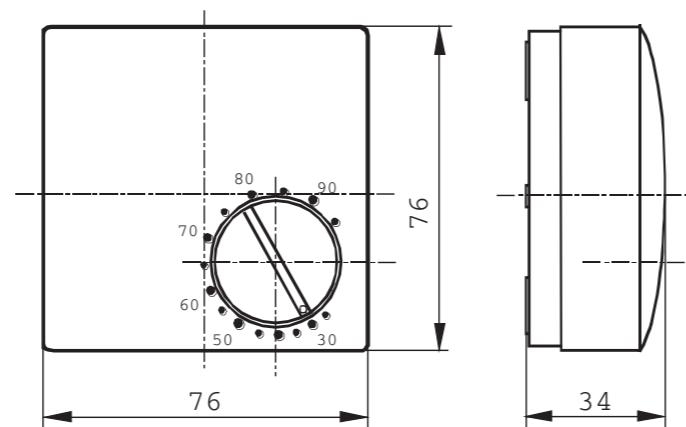
### 1. THERMOSTAT:

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.

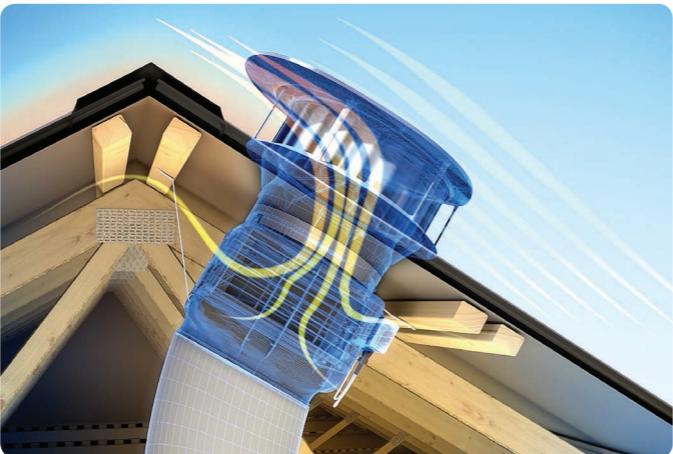
#### BENEFITS OF TEMPERATURE SENSOR

- 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 150m<sup>2</sup>, with two units recommended for 150m<sup>2</sup> - 300m<sup>2</sup>



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 <sup>2</sup> )	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 <sup>3</sup> /hr	2100	1150
m <sup>3</sup> /s	0.583	0.319
l/hr	2,100,000	
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

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

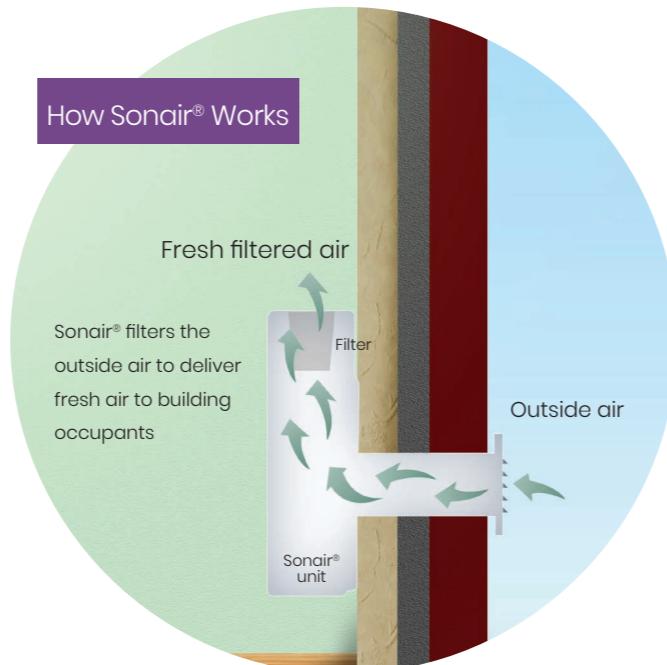
- Air flow of up to 225m<sup>3</sup>/hr using G3 filter

### QUIET OPERATION

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

### LOW ENERGY CONSUMPTION

### 2 YEAR WARRANTY



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 <sup>3</sup> /hr)	Adjustable between 0 - 225
Sound	
G3 filter @ 60 m <sup>3</sup> /hr (dBA) Typical speed	23
G3 filter @ 225 m <sup>3</sup> /hr (dBA) Max. speed	56
Power consumption	
G3 filter @ 60 m <sup>3</sup> /hr (W)	9.6
G3 filter @ 225 m <sup>3</sup> /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:

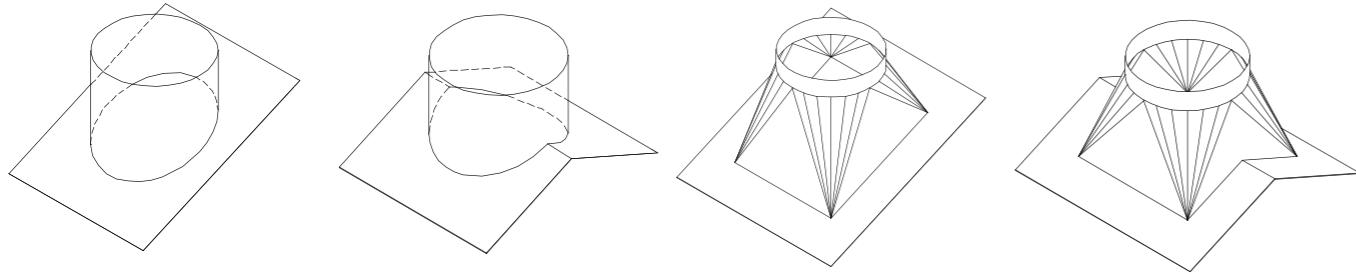
Commonly used on old saw tooth roofs with characteristic steep pitch

##### 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

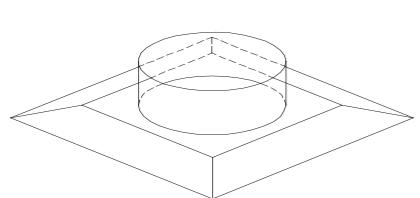


Type 1  
Spigot Slope Base

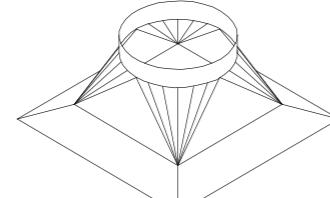
Type 2  
Spigot Ridge Base

Type 3  
Square to Round Slope

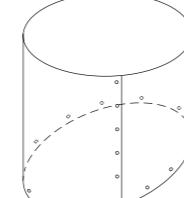
Type 4  
Square to Round Ridge



Type 6  
Square to Round Curb  
Mount



Type 7  
Spigot Pyramid Base



EX Base

Type 1 Spigot slope base		Dimensions (mm)							
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
A Flashing length	600	750	750	750	1000	1000	1200	1200	1200
B Flashing width	500	700	700	700	1000	1000	1200	1200	1200
Throat opening Ø	305	405	458	507	598	699	795	895	895
Height overall (min)	220	270	295	320	370	420	470	520	520

Type 2 Spigot ridge base		Dimensions (mm)							
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 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 60	0 - 55	0 - 55
A Flashing length	600	750	750	750	1000	1000	1200	1200	1200
B Flashing width	500	700	700	700	1000	1000	1200	1200	1200
Throat opening Ø	305	405	458	507	598	699	795	895	895
Height overall min (no damper)	150	150	150	150	150	150	200	250	250
Height overall min (with damper)	220	270	295	320	370	420	470	520	520

Type 3 Square to round slope		Dimensions (mm)*							
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	0.5 - 60	0.5 - 60	0.5 - 60	0.5 - 60	0.5 - 45	0.5 - 45	0.5 - 45	0.5 - 30	0.5 - 30
A Flashing length	375	500	560	620	750	870	995	1120	1120
B Flashing width	375	500	560	620	750	870	995	1120	1120
Throat opening Ø	305	405	458	507	598	699	795	895	895
Height overall (min)	310	360	385	410	460	510	560	610	610

Type 4 Square to round ridge		Dimensions (mm)							
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 - 60	0 - 45	0 - 45	0 - 45	0 - 30	0 - 30
A Flashing length	375	500	560	620	750	870	995	1120	1120
B Flashing width	375	500	560	620	750	870	995	1120	1120
Throat opening Ø	305	405	458	507	598	699	795	895	895
Height overall (min)	310	360	385	410	460	510	560	610	610

Type 6 Square to round curb mount		Dimensions (mm)							
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	0.5 - 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
A Flashing length	375	500	560	620	750	870	995	1120	1120
B Flashing width	375	500	560	620	750	870	995	1120	1120
Throat opening Ø	305	405	458	507	598	699	795	895	895
Height overall (min)	310	360	385	410	460	510	560	610	610

Type 7 Spigot pyramid base		Dimensions (mm)							
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	0.5 - 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
A Flashing length	400	500	600	650	700	800	950	1050	1050
B Flashing width	400	500	600	650	700	800	950	1050	1050
Throat opening Ø	305	405	458	507	598	699	795	895	895
Height overall min (no damper)	150	150	150	150	150	150	200	250	250
Height overall min (with damper)	220	270	295	320	370	420	470	520	520

EX Base		Dimensions (mm)							
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


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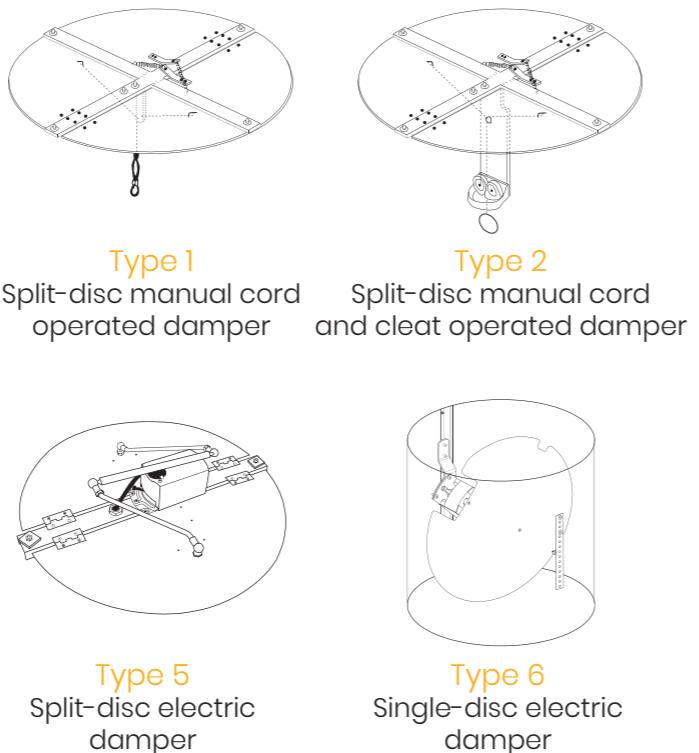
# ACCESSORIES - DAMPERS & GRILLES

## 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



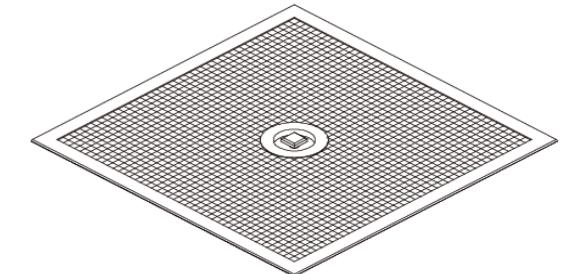
Damper size compatibility chart

Compatible with	H300	H400	H450	H500	H600	H700	H800	H900
Hurricane	n/a							
EcoPower		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.

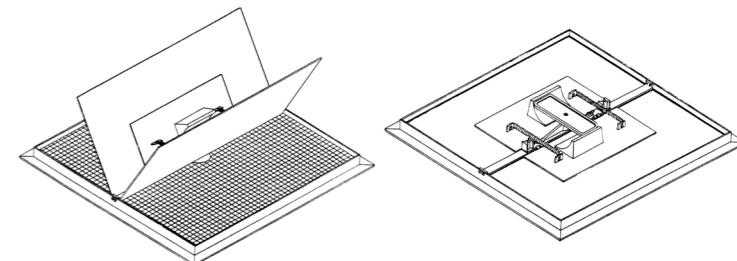
The grilles are used in indoor environment where regular fresh air replenishment is required, such as retail outlets, hotels, and other commercial applications. The aluminium grille is powered coated white to provide durability and rigidity to the construction.



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

