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CDM SERIES

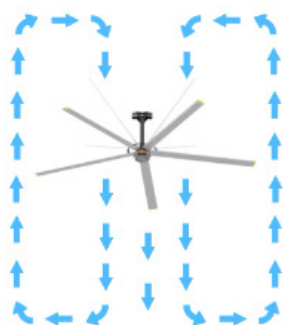
6 BLADE - 1.8M to 3.6M DIAMETER

ULTRA EFFICIENT DIRECT DRIVE PMSM
MOTOR TECHNOLOGY

ABOUT APOGEE FANS

THE VENTILATION PRINCIPLE OF HVLS FANS

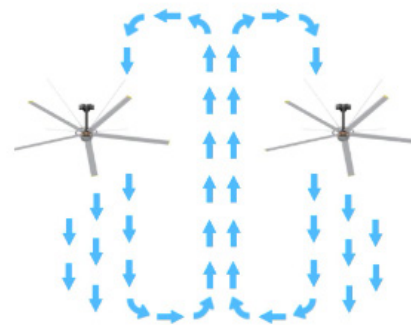
Apogee HVLS Fans generate a powerful column of air that is directed downward from heights of 1–3 metres, spreading evenly across a 360° area. This promotes continuous air circulation, lowering the ambient temperature by 3–5°C while reducing humidity. The airflow mimics a natural breeze, creating a light, comfortable cooling effect on the skin and helping maintain a healthier indoor environment.



IN A CLOSED ENVIRONMENT



IN A OPEN ENVIRONMENT



IN AN ENVIRONMENT WITH TWO FANS

PMSM DIRECT-DRIVE MOTOR - PATENTED PRODUCT



The Apogee HVLS Fan is powered by a permanent magnet synchronous (PMSM) direct-drive motor that eliminates the need for gears, gear oil, or ongoing maintenance, delivering over 15 years of reliable performance with zero servicing costs.

With a wide speed range of 10–60 RPM (up to 110 RPM max), the IE4 motor provides up to 50% energy savings while operating at a whisper-quiet 38dB. Its lightweight aluminium alloy blades can rotate clockwise or counterclockwise, ensuring efficient, durable, and maintenance-free operation—never again worry about costly upkeep.

COST COMPARISON (\$AUD ESTIMATED)

Cost comparison is completed between warehouse grade Air Conditioner, Evaporative Air Cooler and Apogee Fan.

SOLUTION	Power (kW)	Quantity (set)	Product Life (Years)	Annual Cost	Maintenace Cost (per unit)	10 Year Cost	Cost Percentage
Air Conditioner	600 kW	1	10	\$19,000	\$2,870	\$315,340	100%
Evaporative Air Cooler	15 kW	75	6	\$3,590	\$740	\$75,860	24%
Apogee DM Series Fan	< 1.35 kW	8	15+	\$280	\$21	\$8,154	3%

* Estimated Calculation Values based on Typical Conditions on 10,000m² space, 10 hours running per day from October to March.

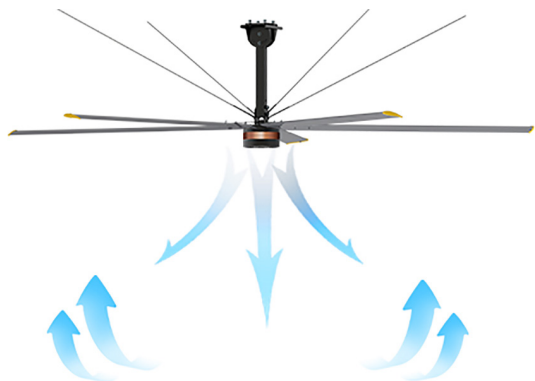
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CDM SERIES

APOGEE CDM SERIES FAN BENEFITS



The Apogee HVLS Ceiling Fan harnesses ultra-efficient PMSM motor technology to deliver massive airflow at low speed, making it the most effective solution for large-space ventilation, cooling, and circulation.

With aerodynamic blades and advanced manufacturing, it outperforms traditional HVAC and high-speed fans by moving high volumes of air with as little as 1kW of power, while also controlling moisture.

For commercial applications, the Apogee CDM Series HVLS Fan is powered by a direct-drive IE4 PMSM motor for whisper-quiet 38dB operation, offering maintenance-free efficiency that makes it ideal for business halls, schools, bars, and other public spaces.



WIDE AREA
COVERAGE



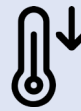
ENERGY
EFFICIENT



MASS AIR
CIRCULATION



SAFE AND
DURABLE



DECREASE
TEMPERATURE

CDM SERIES - TECHNICAL SPECIFICATIONS

PMSM MOTOR

The patented Apogee PMSM direct-drive motor is highly efficient, delivering up to 50% energy savings compared to similar fans, while offering zero maintenance and exceptional reliability.

BLADES & WINGTIPS

Equipped with six high-performance aluminium blades paired with engineered wing-tips shaped to maximise downward air movement, the fan delivers airflow more quickly and efficiently.

CONTROLLER OPTIONS

The Apogee CDM Series Fan comes standard with a AEXP touch screen controller. Optionally, it can be upgraded to have Wi-Fi capability to be used in conjunction with the Smart Central Control, which can be control up to 30 fans. Other Wi-Fi options include thermostat or humidity control (further accessories required)

INSTALLATION

The CDM-Series fan is designed for flexible installation, with options for H-beams, I-beams, spherical grids, trusses, reinforced concrete, and wall mounts.

MODEL	Size (m)	Blades	Weight	Power Supply	Power (kW)	Phase	Speed (RPM)	Airflow (m³/min)	Cover Area (m²)
68CDM-1800	1.8	6	34 kg	230V	0.3 kW	1ph	180	3900	180
68CDM-2000	2.0	6	35 kg	230V	0.3 kW	1ph	180	4350	200
68CDM-2400	2.4	6	36 kg	230V	0.3 kW	1ph	150	5200	250
68CDM-3000	3.0	6	41 kg	230V	0.3 kW	1ph	120	6350	300
68CDM-3600	3.6	6	45 kg	230V	0.5 kW	1ph	100	7500	400

* Estimated Values based on Typical Conditions

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CONTROLS & LIGHTS

AEXP - TOUCH SCREEN CONTROL PANEL



The AEXP touch screen controller provides real-time display of fan operation data, making monitoring and adjustments simple and efficient. With one-key speed adjustment, forward/reverse switching, and visual function control, it ensures quick, user-friendly operation. Built with high-quality electronic components and rigorously tested for safety, the system offers comprehensive protection against overvoltage, undervoltage, overcurrent, overheating, phase loss, vibration, and collisions—automatically shutting down the fan in case of abnormalities.

Key Features:

- Real-time touch screen monitoring and control.
- One-button speed adjustment with forward/reverse switching.
- Comprehensive safety protection with automatic shutdown.
- High-quality electronic components with strict testing.

SCC - WIRELESS CENTRAL CONTROL



The SCC central control system allows intelligent management of multiple fans from a single controller, simplifying daily operation across large spaces. It supports remote, automatic, and customised controls including temperature and humidity regulation, big data integration, and timed operation to optimise efficiency. By improving the environment while minimising electricity costs, SCC control offers a smart, factory-ready solution. ** Must have WIFI Module installed in AEXP to be upgraded.

Key Features:

- Manage up to 30 fans with one controller.
- Remote, automatic, and customised control options.
- Integrated timing and temperature sensing for energy savings.
- Simple touch screen interface for modern intelligent management.

MODEL	Wall Size (L x W x H)	Control Capacity	Interface	Smart Features
68FM-WIFI	N/A	1 per AEXP Panel	WIFI Module	Enables WIFI Capability for AEXP Controller
68SCC-WIFI	120 x 70 x 60	Up to 30 WIFI enabled AEXP Panels	Touch screen	Remote & automatic control, scheduling, temperature & humidity sensing, big data integration

* Estimated Values based on Typical Conditions

LED LIGHT OPTIONS - AVAILABLE AS LDM FAN MODEL

Available in 50W–250W options, the LED light delivers high luminous efficiency with low energy use, long life, waterproof and dustproof design, multiple beam angles (60°, 90°, 120°), and a larger, more efficient light-emitting surface than traditional bulbs.

POWER	50W	100W	150W	200W	520W	300W
COLOUR	White / Warm					
AREA (M ²)	40	60	85	110	135	150

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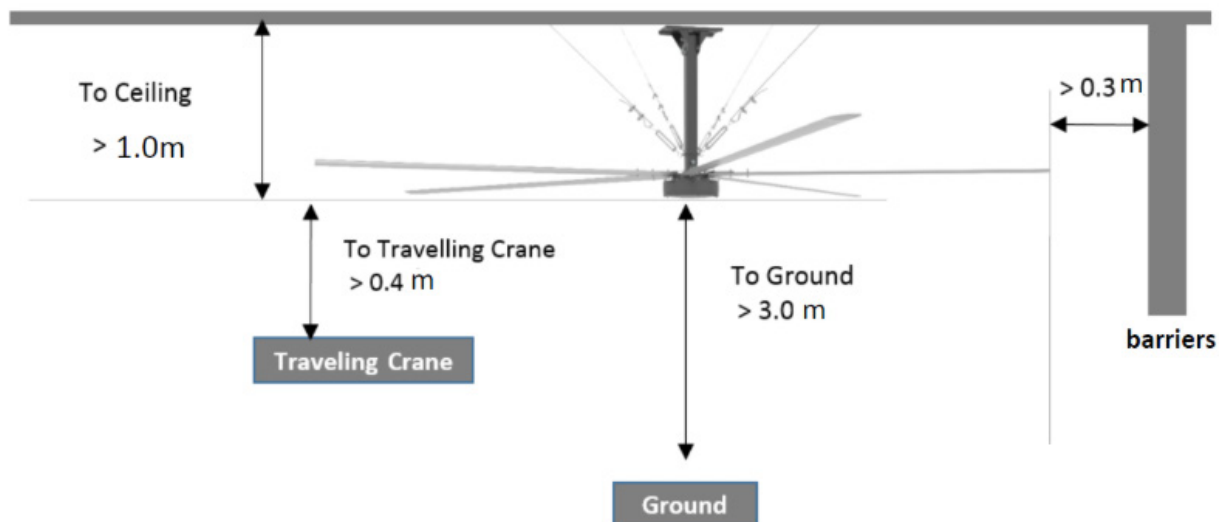
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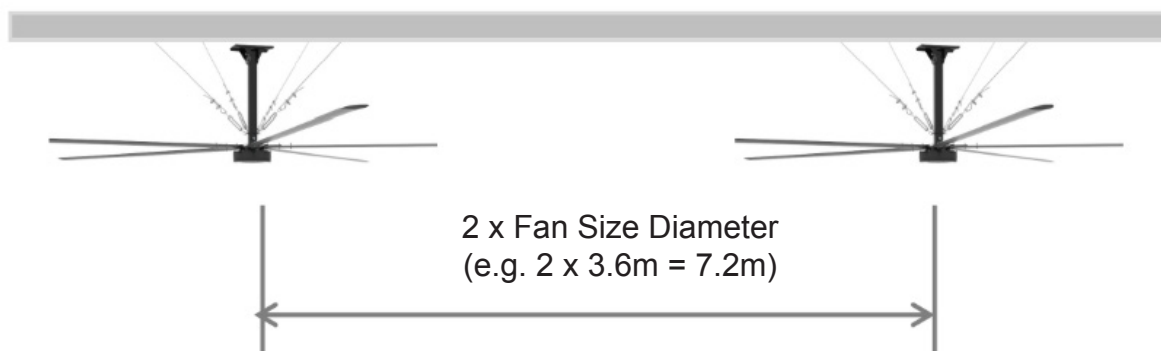
INSTALLATION

INSTALLATION REQUIREMENTS

CASE: INSTALLATION OF 1 UNIT



CASE: INSTALLATION OF MORE THAN 1 UNIT



INSTALLATION POINT MOUNTS AVAILABLE



Cement/concrete walls



Round/square steel



I/H - Beam

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