

# VINDUS FAN



## M650

The M650 provides extreme value with a brushless DC (BLDC) motor with scalable torque. It is able to operate at top speed while consuming just 275 watts of power. The fan's easy installation process makes it an ideal fit for commercial spaces that are looking for a cost-effective way to cool the air. The M650 Series has been built to provide maximum value even when considering its effortless installation process, which requires only a single cable. The M650's drive features a built-in HMI, which is located at floor level for easy access and service. This makes bringing the M650 into your facility an extremely low-cost endeavor. The M650 Series delivers comfortable airflow throughout the year. It cools efficiently in summer and equalizes a building's temperature in the winter to warm it. This model works best in medium-sized spaces with ceiling heights ranging from 2.75m (9ft) to 7m (23ft) and it's available in diameters spanning from 3m (10ft) to 4.27m (14ft) to suit your building's needs.



## PRODUCT DETAILS

Models \ Performance	Diameter	Number of Blades	Weight	Max Rotation Speed	Max Airflow (AMCA 230-15) *	Max Airflow (AMCA 230-99) *	Power Usage (Average)	Covered Area (m2)	Recommended Blade Height (m)
M650-10	3 m	5	31	112 RPM	77,080 m³/h	108,991 m³/h	190 W	230 m2	5-7 m
M650-12	3.6 m	5	34	100 RPM	124,027 m³/h	175,374 m³/h	275 W	350 m2	5-7 m
M650-14	4.2 m	5	37	78 RPM	141,017 m³/h	199,398 m³/h	335 W	490 m2	5-7 m

General specifications	
Voltage	220VAC - 240VAC Single Phase, 50Hz / 60Hz
Sound @ Max Speed	<45 dBA
IP Rating	IPX5 Indoor/Outdoor
Temperature Rating	-10°C / + 50°C with Safety Slowdown
Certifications	CE, CB for local IEC Certification
Controller	Forward direction 0-100%
Mounting	Fully Adjustable
Mount to Blades Height	1m Standard
Warranty	3 Years on all Parts - Extended Warranty Optional

### Motor Technology: Direct drive technology

#### Advantage

- No oil
- No seals to leak
- Only 2 moving parts
- Low noise
- Low energy consumption
- Low weight

### Transverse Flux Machine Motor Type

#### Advantage

- Lighter weight
- High torque density
- Smaller package
- Low energy losses

## FEATURES



- 5 anodized aluminium blades
- Available in custom-painted colors
- Quick and easy installation
- Wireless remote and IOT available
- Energy-efficient operation
- Forward 0-100% speed
- Network available for up to 20 fans
- Conforms to CE, EN, and IEC standards
- 7 speed levels
- Multiple redundancies in critical components, including blades and mount



Maximizes HVAC system efficiency



Lower energy consumption



Reduces energy costs



Reduces your carbon footprint



Improves indoor air quality



Improves thermal comfort in summer



Extremely quiet operation



Reduces mental fatigue



Increases worker productivity

## CONTROLLER



### HMI BI 1-20 Controller

- Compatible with M650 and M750
- Integrated wall mount design
- LCD display
- Up to 20 Vindus fans can be easily operated using this digital controller
- Easy command for forward functions with 7 speed levels
- Multi-function potentiometer with LED status indicator
- Wireless remote control (optional)
- Built-in smart internet of things (IoT) module (optional)

Ready to Make Your Systems as Efficient As Possible?

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