

TECHNICAL SPECIFICATION

24 FEET EMF PMSM HVLS FAN

ecocair®



HIGH COVERAGE



SAFETY FEATURES



DURABILITY



USER FRIENDLY



ENERGY EFFICIENT

SAFETY AND FEATURE'S

1. Primary and Secondary Safety Feature's for anti fall protection of all components of the fan.
2. The Safety GI wire rope's ensures secure attachment for the Blade, Extension Tube, providing maximum stability and durability in high-stress environments.
3. Compatible with the Building Management System, ensuring seamless integration and efficient control.
4. The real-time monitoring system offers instant insights for proactive management.
5. Capability of Communicating seamlessly via Modbus RTU 485.
6. Real-time control for instant ON/OFF.

NOTE:

1. Coverage area is based on fan max speed, which can be influence by ceiling height, airflow barriers, and the fans distance from floor.
2. Fan weight varies based on the extension rod length.
3. Specifications is based on updated 2025 model range.

MODEL NO : ECOPM7E

FAN DIAMETER (FT)	24
TYPE OF FAN	PMSM HVLS FAN
PROTECTION RATING	IP65
BLADE FINISH	ANODISED SILVER WITH POWDER COATING
BLADE MATERIAL	HIGH GRADE ALUMINUM ALLOY 6061 T6
NO. OF BLADE	5
IMPELLER GRADE	DIN 17100 GR. ST 52.3
MOTOR TYPE	PMSM MOTOR
MOTOR MAKE	EMF MOTOR
POWER (KW)	0.98
POWER LINE/VOLTAGE (V)	1ϕ /3 ϕ – (230 V/415 V)
FREQUENCY (HZ)	50
INSULATION CLASS	F
DRIVE MAKE	DANFOSS
SPEED (RPM)	52
AIR FLOW (CFM)	3,78,000
COVERAGE AREA (SQ FT)	16,900
STATIC WEIGHT (KG)	140
DYNAMIC WEIGHT (KG)	114
SOUND LEVEL @ 3m BELOW FAN (dB)	< 50
SPEED CONTROL METHOD	ANALOG INPUT SPEED SETTING THROUGH 0 TO 10 V

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TECHNICAL SPECIFICATION

20 FEET EMF PMSM HVLS FAN

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MODEL NO : ECOPM6E

FAN DIAMETER (FT)	20
TYPE OF FAN	PMSM HVLS FAN
PROTECTION RATING	IP65
BLADE FINISH	ANODISED SILVER WITH POWDER COATING
BLADE MATERIAL	HIGH GRADE ALUMINUM ALLOY 6061 T6
NO. OF BLADE	5
IMPELLER GRADE	DIN 17100 GR. ST 52.3
MOTOR TYPE	PMSM MOTOR
MOTOR MAKE	EMF MOTOR
POWER (KW)	1.1
POWER LINE/VOLTAGE (V)	1 ϕ /3 ϕ – (230 V/415 V)
FREQUENCY (HZ)	50
INSULATION CLASS	F
DRIVE MAKE	DANFOSS
SPEED (RPM)	68
AIR FLOW (CFM)	2,88,000
COVERAGE AREA (SQ FT)	10,500
STATIC WEIGHT (KG)	130
DYNAMIC WEIGHT (KG)	105
SOUND LEVEL @ 3m BELOW FAN (dB)	< 50
SPEED CONTROL METHOD	ANALOG INPUT SPEED SETTING THROUGH 0 TO 10 V

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TECHNICAL SPECIFICATION

16 FEET EMF PMSM HVLS FAN

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MODEL NO : ECOPM5E

FAN DIAMETER (FT)	16
TYPE OF FAN	PMSM HVLS FAN
PROTECTION RATING	IP65
BLADE FINISH	ANODISED SILVER WITH POWDER COATING
BLADE MATERIAL	HIGH GRADE ALUMINUM ALLOY 6061 T6
NO. OF BLADE	5
IMPELLER GRADE	DIN 17100 GR. ST 52.3
MOTOR TYPE	PMSM MOTOR
MOTOR MAKE	EMF MOTOR
POWER (KW)	0.63
POWER LINE/VOLTAGE (V)	1 ϕ /3 ϕ – (230 V/415 V)
FREQUENCY (HZ)	50
INSULATION CLASS	F
DRIVE MAKE	SCHNEIDER
SPEED (RPM)	72
AIR FLOW (CFM)	2,25,000
COVERAGE AREA (SQ FT)	9,000
STATIC WEIGHT (KG)	100
DYNAMIC WEIGHT (KG)	83
SOUND LEVEL @ 3m BELOW FAN (dB)	< 50
SPEED CONTROL METHOD	ANALOG INPUT SPEED SETTING THROUGH 0 TO 10 V

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TECHNICAL SPECIFICATION

12 FEET EMF PMSM HVLS FAN

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MODEL NO : ECOPM4E

FAN DIAMETER (FT)	12
TYPE OF FAN	PMSM HVLS FAN
PROTECTION RATING	IP65
BLADE FINISH	ANODISED SILVER WITH POWDER COATING
BLADE MATERIAL	HIGH GRADE ALUMINUM ALLOY 6061 T6
NO. OF BLADE	5
IMPELLER GRADE	DIN 17100 GR. ST 52.3
MOTOR TYPE	PMSM MOTOR
MOTOR MAKE	EMF MOTOR
POWER (KW)	0.29
POWER LINE/VOLTAGE (V)	1ϕ /3 ϕ – (230 V/415 V)
FREQUENCY (HZ)	50
INSULATION CLASS	F
DRIVE MAKE	SCHNEIDER
SPEED (RPM)	86
AIR FLOW (CFM)	1,30,000
COVERAGE AREA (SQ FT)	6,800
STATIC WEIGHT (KG)	90
DYNAMIC WEIGHT (KG)	74
SOUND LEVEL @ 3m BELOW FAN (dB)	< 50
SPEED CONTROL METHOD	ANALOG INPUT SPEED SETTING THROUGH 0 TO 10 V

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10 FEET EMF PMSM HVLS FAN

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3. Specifications is based on updated 2025 model range.

MODEL NO : ECOPM3E

FAN DIAMETER (FT)	10
TYPE OF FAN	PMSM HVLS FAN
PROTECTION RATING	IP65
BLADE FINISH	ANODISED SILVER WITH POWDER COATING
BLADE MATERIAL	HIGH GRADE ALUMINUM ALLOY 6061 T6
NO. OF BLADE	5
IMPELLER GRADE	DIN 17100 GR. ST 52.3
MOTOR TYPE	PMSM MOTOR
MOTOR MAKE	EMF MOTOR
POWER (KW)	0.29
POWER LINE/VOLTAGE (V)	1 ϕ /3 ϕ – (230 V/415 V)
FREQUENCY (HZ)	50
INSULATION CLASS	F
DRIVE MAKE	SCHNEIDER
SPEED (RPM)	100
AIR FLOW (CFM)	99,000
COVERAGE AREA (SQ FT)	5,500
STATIC WEIGHT (KG)	58
DYNAMIC WEIGHT (KG)	44
SOUND LEVEL @ 3m BELOW FAN (dB)	< 50
SPEED CONTROL METHOD	ANALOG INPUT SPEED SETTING THROUGH 0 TO 10 V

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TECHNICAL SPECIFICATION

8 FEET EMF PMSM HVLS FAN

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MODEL NO : ECOPM2.4E

FAN DIAMETER (FT)	10
TYPE OF FAN	PMSM HVLS FAN
PROTECTION RATING	IP65
BLADE FINISH	ANODISED SILVER WITH POWDER COATING
BLADE MATERIAL	HIGH GRADE ALUMINUM ALLOY 6061 T6
NO. OF BLADE	5
IMPELLER GRADE	DIN 17100 GR. ST 52.3
MOTOR TYPE	PMSM MOTOR
MOTOR MAKE	EMF MOTOR
POWER (KW)	0.29
POWER LINE/VOLTAGE (V)	1ϕ /3 ϕ – (230 V/415 V)
FREQUENCY (HZ)	50
INSULATION CLASS	F
DRIVE MAKE	SCHNEIDER
SPEED (RPM)	110
AIR FLOW (CFM)	87,000
COVERAGE AREA (SQ FT)	4,500
STATIC WEIGHT (KG)	55
DYNAMIC WEIGHT (KG)	40
SOUND LEVEL @ 3m BELOW FAN (dB)	< 50
SPEED CONTROL METHOD	ANALOG INPUT SPEED SETTING THROUGH 0 TO 10 V

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