MULTI*WING™

BIG FANS OF THINKING BIGGER

L-SERIES AXIAL EC FANS

multi-wing.com

L-SERIES OVERVIEW

Protected electronics

The electronic components are shielded from the airflow, thus increasing electronics lifetime. This also allows for more powerful motors and increased performance.

Future ready

The L-series is fully equipped to meet the stringent performance, repairability, and fan performance requirements of EU's Energy-related Products Directive (ErP2026) and other standards. At Multi- Wing, we are ready to assist you in complying with these standards efficiently and confidently.

Built for the elements

The L-series is ideal for the Multi-Wing internal rotor motor, offering superior heat dissipation, improved durability, lower motor temperatures, and longer bearing life. It delivers higher power output, perfect for high-power applications up to 15 kW.

Modular design

Suitable for harsh environments, the fan is easily serviceable. Upgradable components enhance corrosion protection, while individual part replacements improve serviceability and eco-friendliness.

WHY SETTLE for small solutions when your cooling challenges keep growing?

The Multi-Wing L-Series Axial EC Fans are designed to take on rising heat loads with fewer, but larger, modular fans. That means higher airflow, lower noise, and simpler maintenance. All with less energy use.

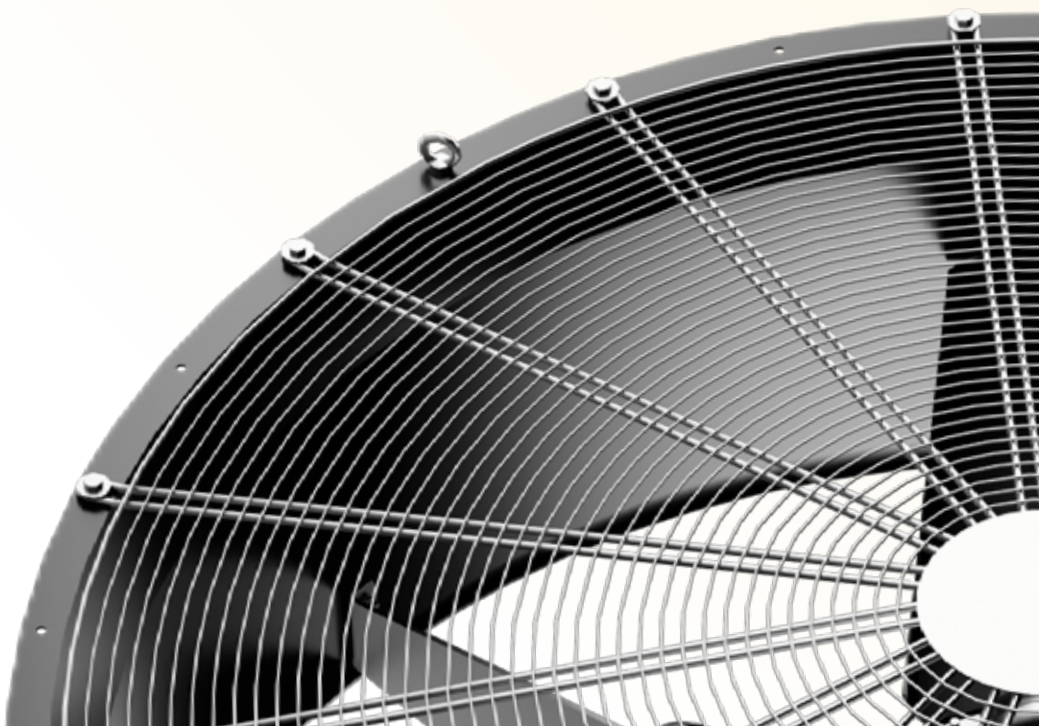
WHY CHOOSE L-SERIES?

More airflow, less energy

1

Reduced complexity, lower maintenance

2



MORE AIR. LESS ENERGY.

With diameters up to 1,800 mm (5.9 ft) and optimized blade geometry, each fan moves more air per revolution, reducing turbulence and energy consumption. Fewer fans also mean fewer motors, fewer connections, and fewer points of failure. In short, more uptime and less hassle.

Built for high-efficiency and long-term ROI

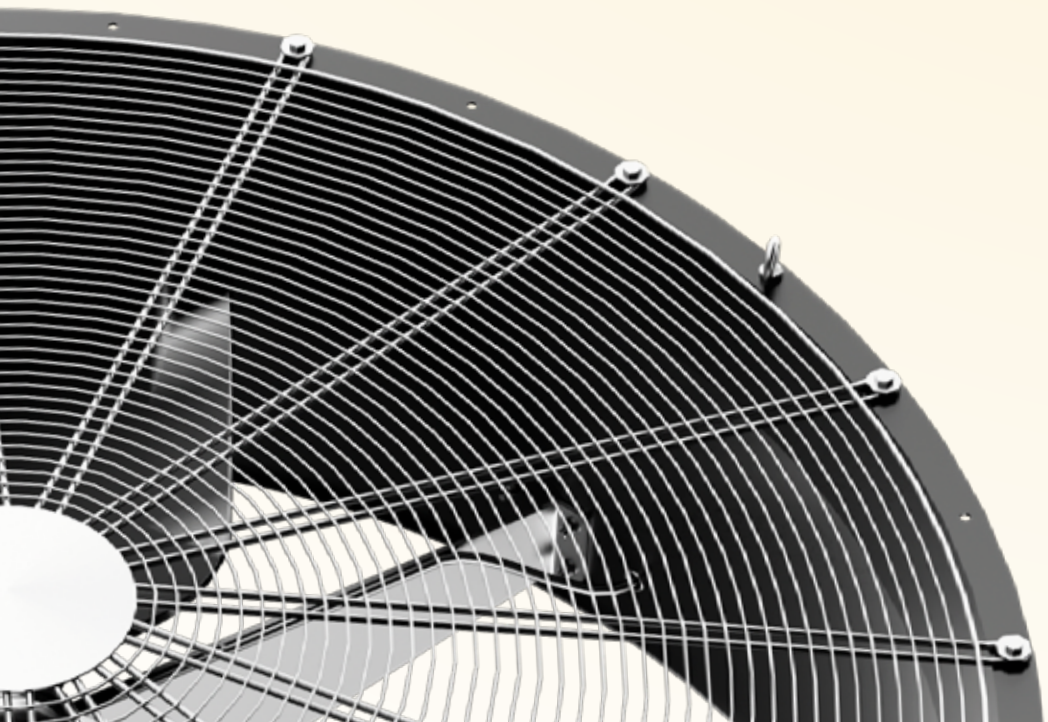
3

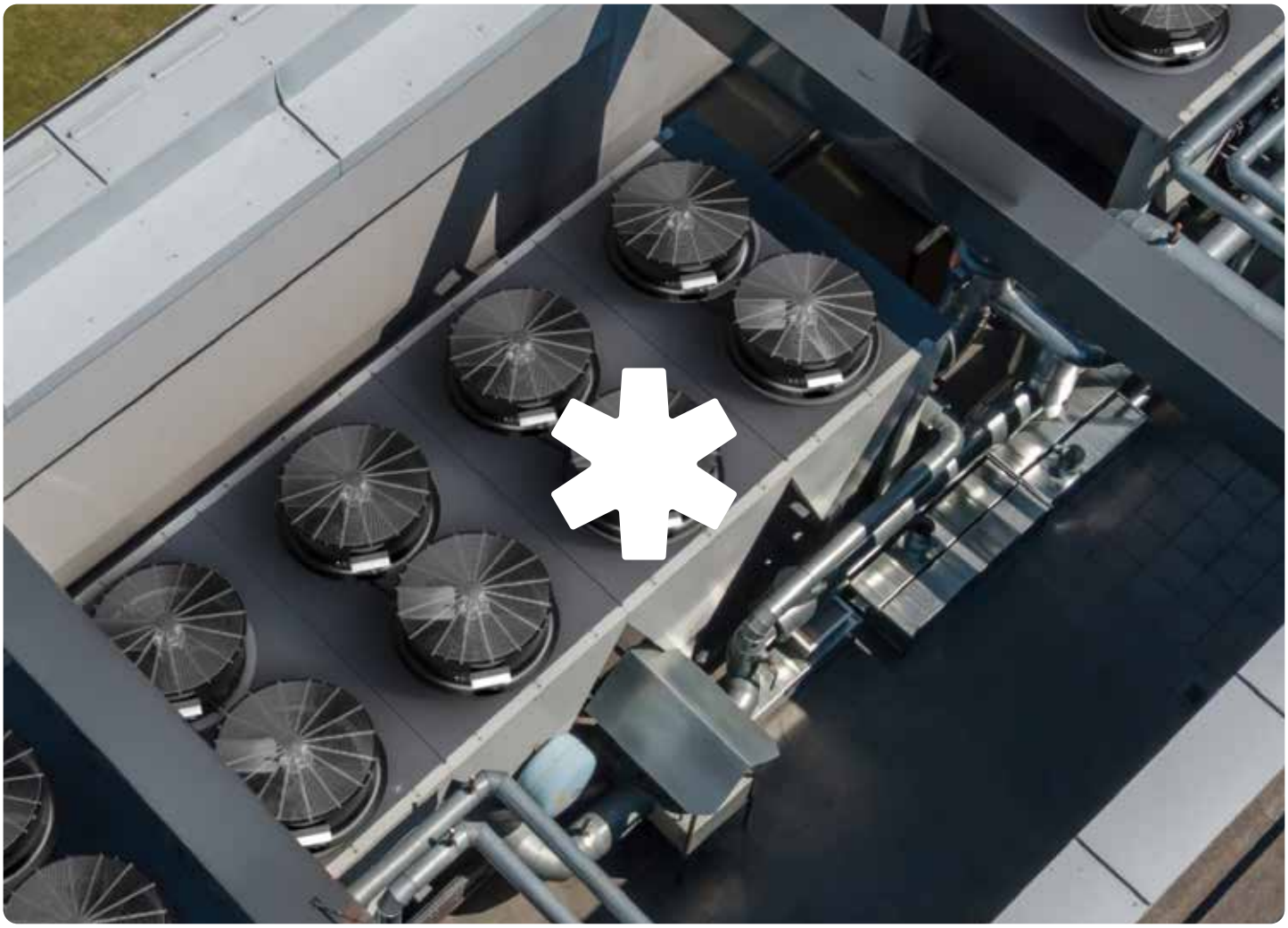
Flexible, future-ready configurations

4

Lower acoustic output by design

5





COOLING TOWER

- Energy efficiency
- Durability
- Large fan diameter

Heavily exposed to corrosive and wet environments, fans in cooling towers need to be very durable. Cooling towers come in larger but variable sizes so they can be fit for purpose, which also presents variability in the optimal size of the fan.

Multi-Wing can equip your cooling towers with large variable speed fans, tailored for corrosive operating conditions. Our customized designs result in significant energy savings, eliminating the need to invest in several smaller fans.

With Multi-Wing's long aerodynamics history, we customize axial fans up to 1,800 mm (5.9 ft) in specific shapes and formats, tailored to your application.

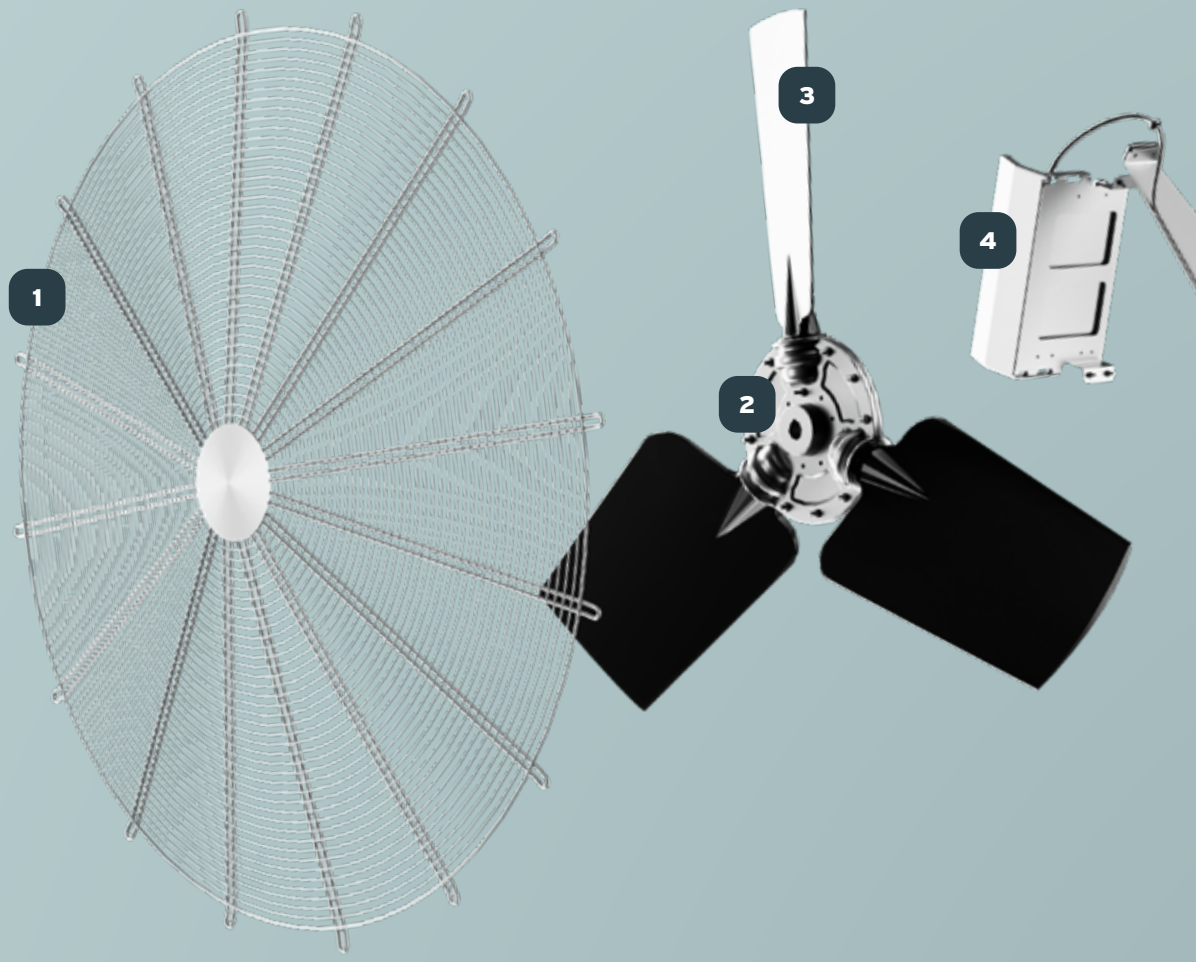
L-SERIES
TECHNICAL DATA

Ready for cooling towers and similar demanding applications.

Power supply	3ph, 380–480 V ~ 10% 50Hz/60Hz
IP protection grade	IP55
Insulation class	F/B
Motor technology	PM synchronous motor
Drive	External PM drive: Mounted on duct, outside airflow
Digital communication	MODBUS RTU, RS-485
Analog communication	0–10 VDC, 100% @ 9.5 VDC +/-2%
Airflow temp. range*	-30°C to +70°C (-22°F to 158°F)
Ambient temp. range	-40°C to +50°C (-40°F to 122°F)
Conformity	CE, UL listed components used
Motor	Housing: cast iron – DE, End shield: cast iron – C3M
Casing	Hot-dip galvanized steel, powder coating RAL7021, C3M
Motor supports	Hot-dip galvanized steel and powder coated RAL7021, C3M
Impeller	PAG blades and corr. resistant Al alloy hub, A4 stainless steel bolting
Protection grid	S235JR, ZnNi, powder coated RAL 9005 (Compliant to ISO 13857), C3M

* Linked to motor's limits
** Linked to drive's limits

L-SERIES CHARACTERISTIC



1 Grid

Aerodynamically optimized design for minimal energy waste. C3-level corrosion-resistant paint grade as standard.

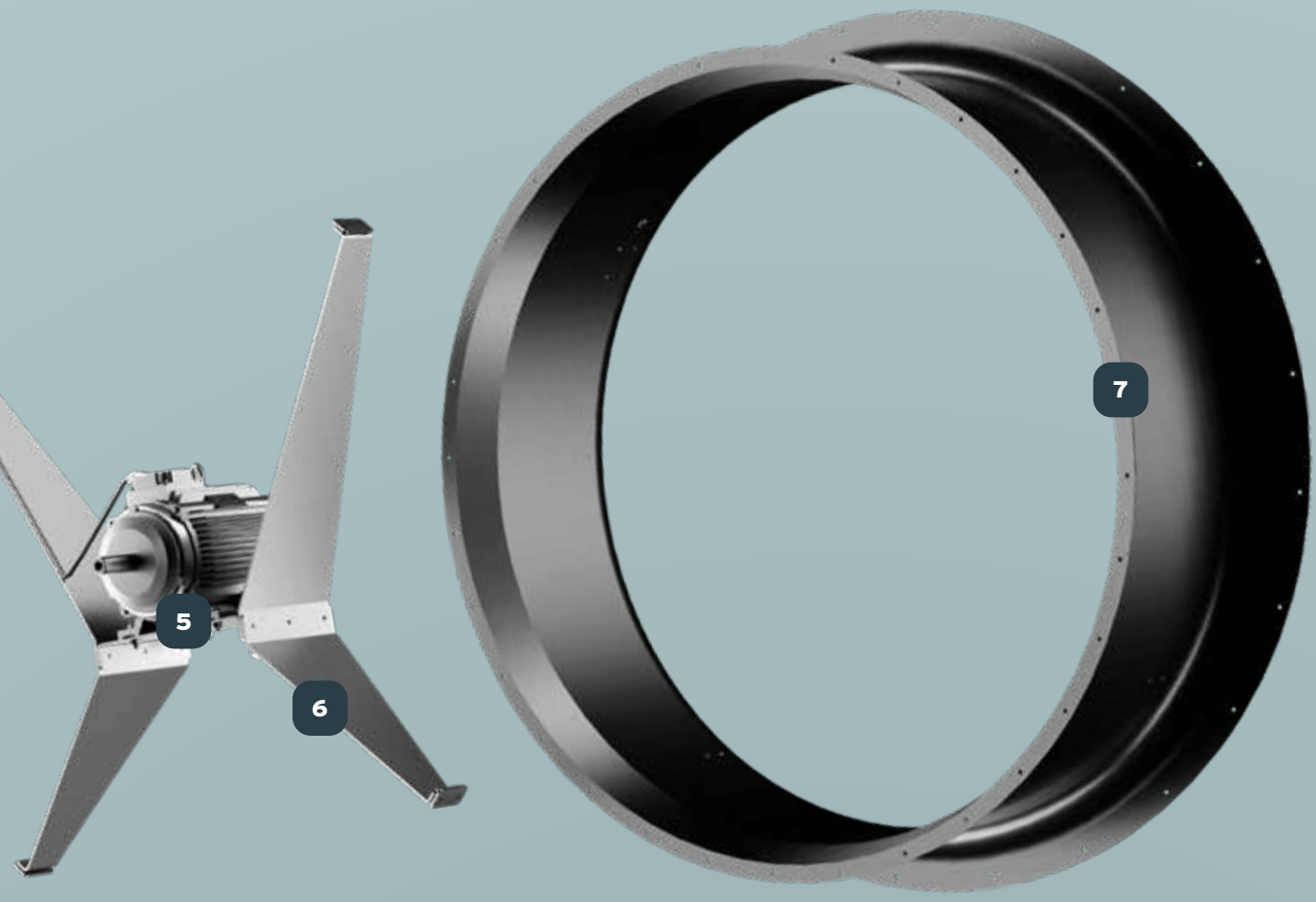
2 Hub

Perfectly paired to maximize blades' full airflow potential.

3 Blade

Utilizing the width of the modular impeller range to achieve the maximum performance.

Airfoil shape	
	9W2 impeller
	10G impeller
Sickle blade	
	1G impeller



4 External drive

Out-of-airflow, ready to provide the additional power needed for environments like cooling towers.

6 Brackets

Harmonized design, engineered to minimize airflow impact.

5 Internal rotor motor

Robust direct driven powerful PM internal rotor motor mounted on the suction side for maximum performance and durability.

7 Housing

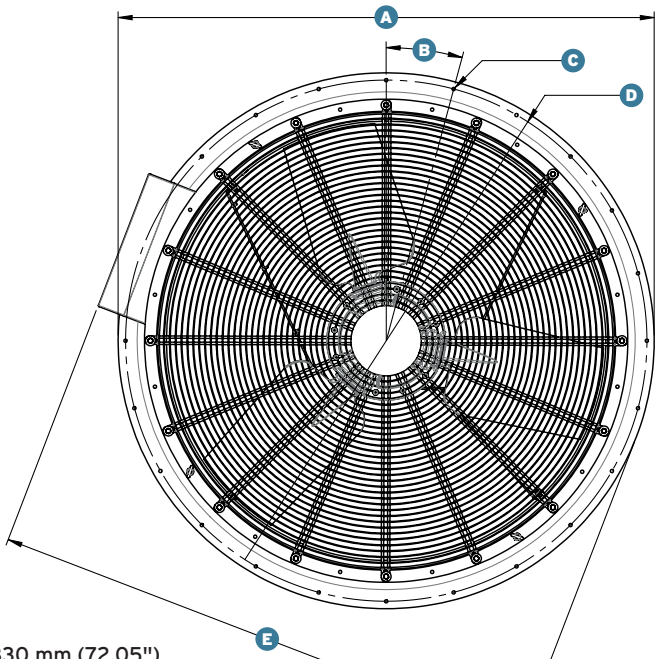
Specially designed bellmouth heavy duty inlet and short diffuser providing superior flow and performance. Available both as square or round plate.

L-SERIES

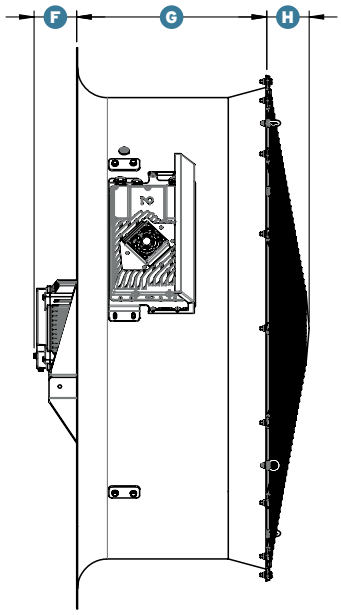
1,500 mm (4.9 ft)

KL.1500X

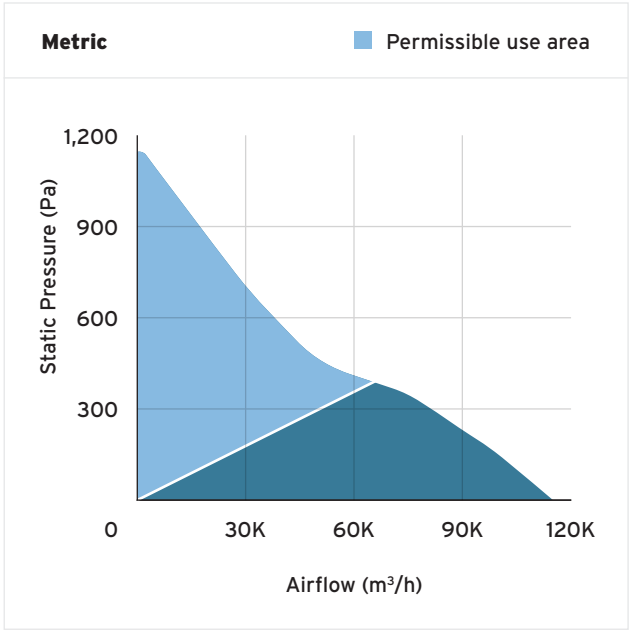
Part number	10135368
Specification code	JUW 150-35-8B-56-L-QZX3X5-P-MR
Max input power (kW)	16.34
Max input current (A)	24.56
Max back pressure (PA)	340
Max speed (RPM)	850

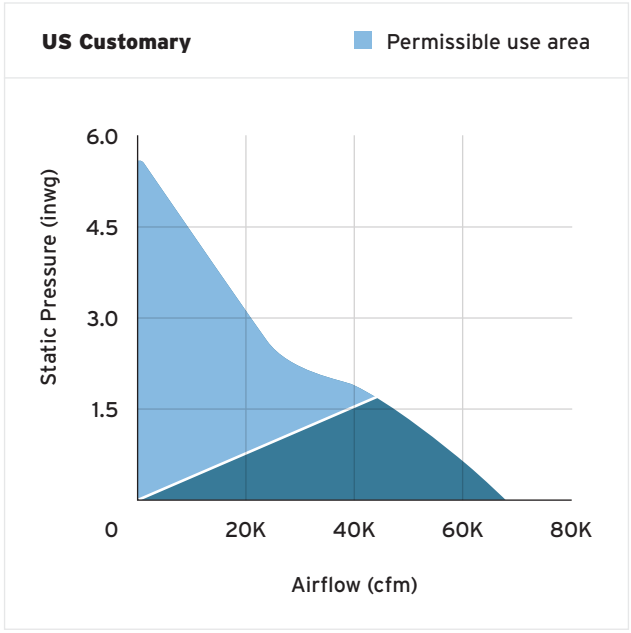


A 1830 mm (72.05")
B 24x15°
C 24xØ11 mm (Ø0.43")
D BC Ø1780 mm (Ø70.08")
E 1876 mm (73.86")



F 139 mm (5.47")
G 620 mm (24.41")
H 138 mm (5.43")





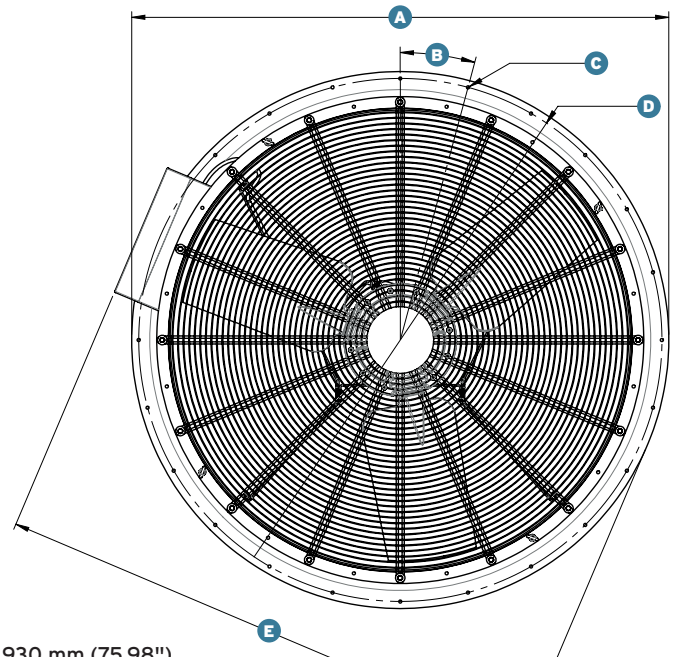
Measuring conditions: Performance data is measured after ISO 5801, installation category A, as a complete axial fan without fan guard. Data refer to air density 1.2 kg/m³ (20°C/68°F sea level). Sound data is measured at suction-side. The data apply only under the specified measuring conditions and may change due to installation conditions. In case of deviations from the standard design, the characteristic values must be checked in the installed condition. Upon request sound data according to ISO 3745 can be measured.

L-SERIES

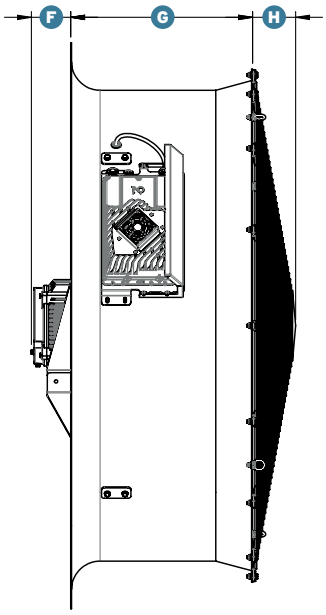
1,600 mm (5.2 ft)

KL.1600X

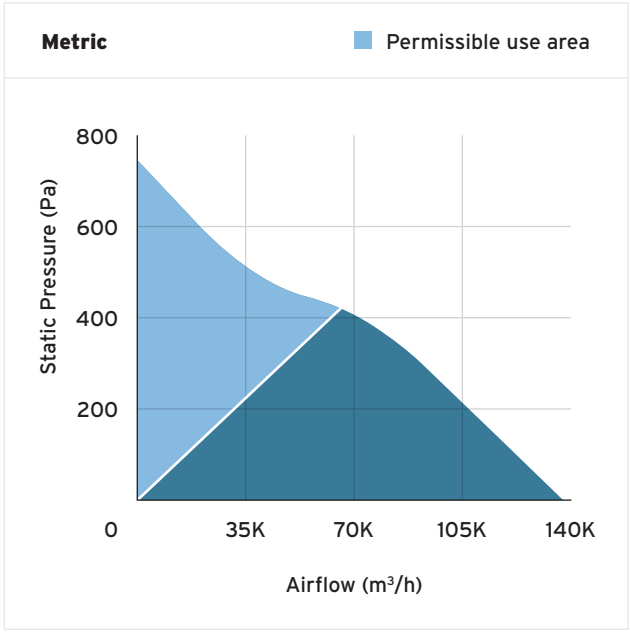
Part number	10135369
Specification code	JUW 160-36-8B-52-L-QZX3X5-P-MR
Max input power (kW)	16.45
Max input current (A)	16.45
Max back pressure (PA)	330
Max speed (RPM)	800

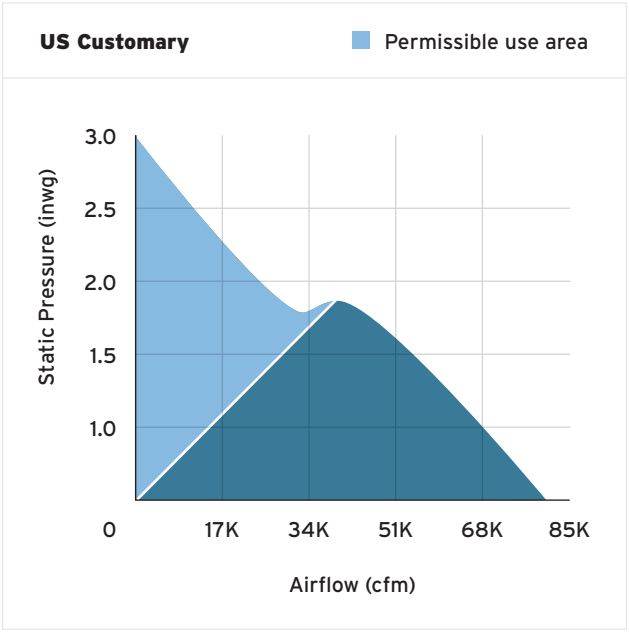


A 1930 mm (75.98")
B 24x15°
C 24xØ11 mm (Ø0.43")
D BC Ø1880 mm (Ø74.02")
E 1978 mm (77.87")



F 134 mm (5.28")
G 620 mm (24.41")
H 147 mm (5.79")





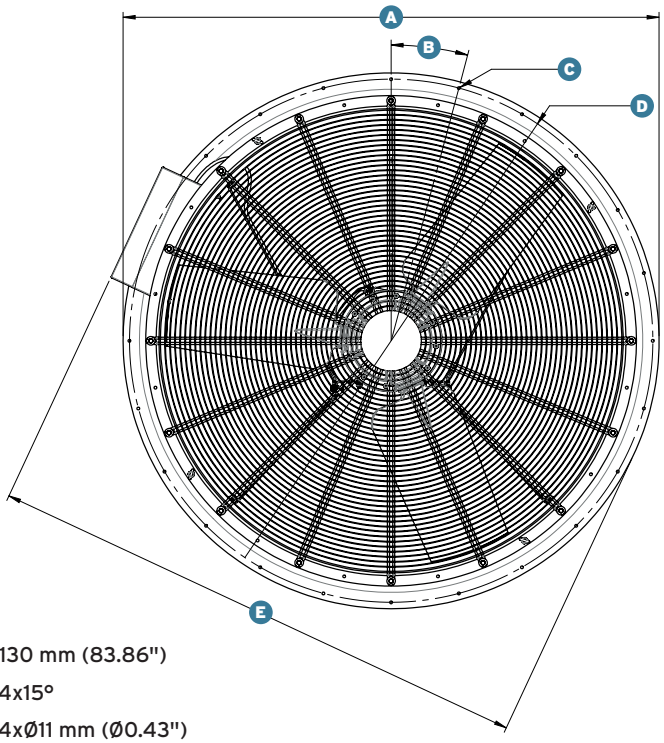
Measuring conditions: Performance data is measured after ISO 5801, installation category A, as a complete axial fan without fan guard. Data refer to air density 1.2 kg/m³ (20°C/68°F sea level). Sound data is measured at suction-side. The data apply only under the specified measuring conditions and may change due to installation conditions. In case of deviations from the standard design, the characteristic values must be checked in the installed condition. Upon request sound data according to ISO 3745 can be measured.

L-SERIES

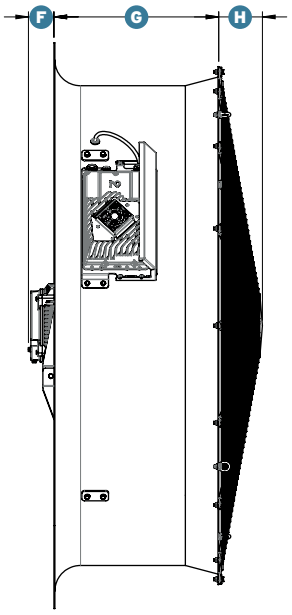
1,800 mm (5.9 ft)

KL.1800X

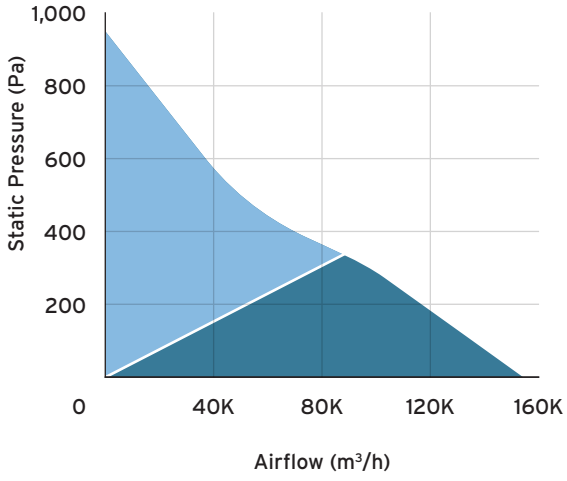
Part number	10135370
Specification code	JUW 180-32-8B-49 L-QZX3X5-P-MR
Max input power (kW)	16.45
Max input current (A)	24.73
Max back pressure (PA)	340
Max speed (RPM)	740

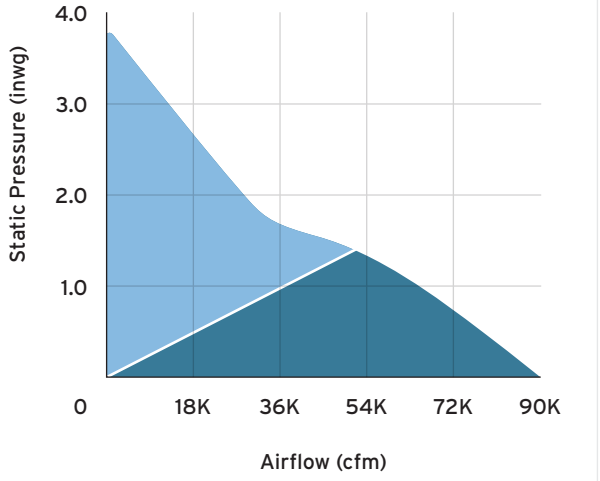


A 2130 mm (83.86")
B 24x15°
C 24xØ11 mm (Ø0.43")
D BC Ø2080 mm (Ø81.89")
E 2181 mm (85.87")



F 96 mm (3.78")
G 620 mm (24.41")
H 165 mm (6.50")





Measuring conditions: Performance data is measured after ISO 5801, installation category A, as a complete axial fan without fan guard. Data refer to air density 1.2 kg/m³ (20°C/68°F sea level). Sound data is measured at suction-side. The data apply only under the specified measuring conditions and may change due to installation conditions. In case of deviations from the standard design, the characteristic values must be checked in the installed condition. Upon request sound data according to ISO 3745 can be measured.

GLOBAL REACH,
LOCAL PRESENCE

GET IN TOUCH
info@multi-wing.com
multi-wing.com

ML-100036