MULTI*WING

GET MORE
FOR LESS

L-SERIES
AXIAL EC FANS

LARGE EC FANS
GO LARGE – GET MORE AIRFLOW FOR LESS

L-SERIES
Highlights

The large and aerodynamically optimized L-series axial fans feature advanced heavy-duty casing design, including bellmouth inlets and short diffusers, ensuring superior flow and performance.

L-SERIES
OVERVIEW

The excellent choice for applications such as cooling towers and large dry coolers

Protected electronics

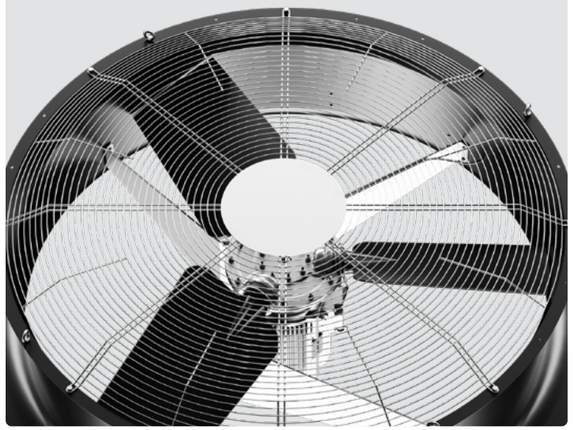
The electronic components are shielded from the airflow, thus increasing electronics lifetime. This also allows for more powerful motors and increased performance.

CEC Title 20 Compliant

Our HVAC/R fan series exceed CEC Title 20 energy efficiency standard. Designed for sustainability and performance, Multi-Wing helps optimize your systems and meet compliance with confidence.

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 200Nm/30kW.



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.

COOLING TOWERS
APPLICATIONS

- Energy efficiency
- Durability
- Large fan diameter

Cooling tower

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 70.9 inch in specific shapes and formats, tailored to your application.

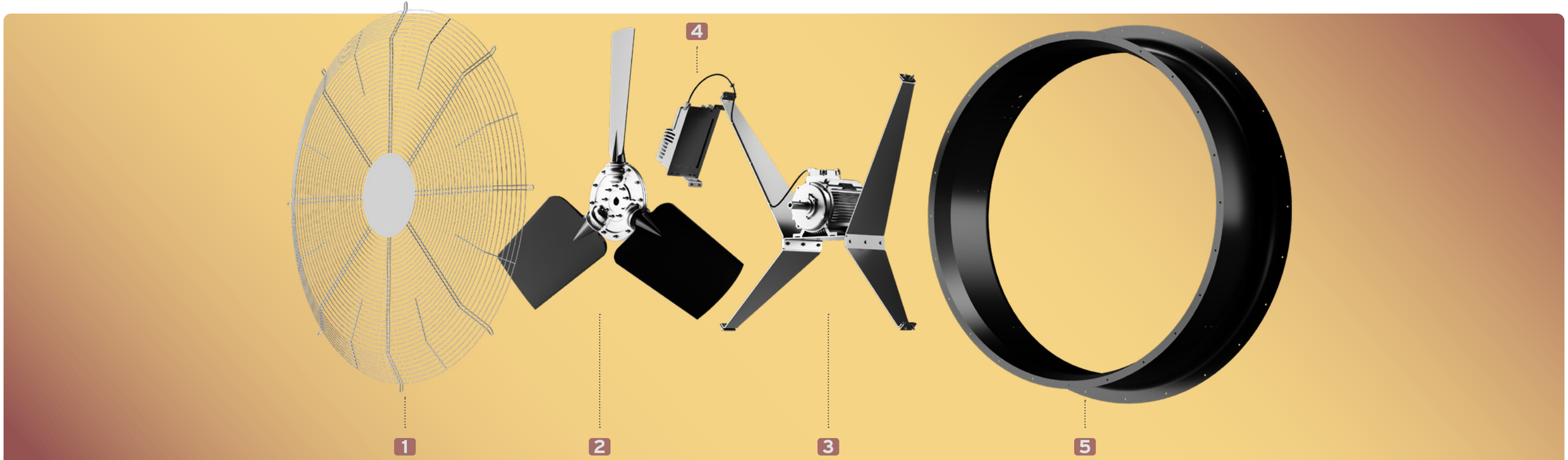
L-SERIES
TECHNICAL DATA

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*	-86°F to +158°F
Ambient temp. range**	-40°F to +122°F
Conformity	CE, UL listed components used, ErP 2015 compliant, ESPR ready
Motor	Housing: cast iron – DE, End shield: cast iron - C3M
Casing	Pre-galvanized steel, powder coating RAL7021, C3H
Motor supports	Hot-dip galvanized steel and powder coated RAL7021, C4H
Impeller	PAG blades and corr. resistant Al alloy hub, A2 stainless steel bolting
Protection grid	S235JR, ZnNi ,powder coated RAL 7021 (Compliant to ISO 13857), C4H

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

L-SERIES
CHARACTERISTICS



1 - Fan grid

Aerodynamically optimized design for minimal energy waste.
C4-level corrosion-resistant paint grade as standard.

2 - Impeller

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

Airfoil shape,
9W2 and 10G impellers

Sickle blade,
1G impeller

3 - Internal rotor motor

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

4- External drive

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

5 - 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
(59.0 in)
EC

p. 10-11

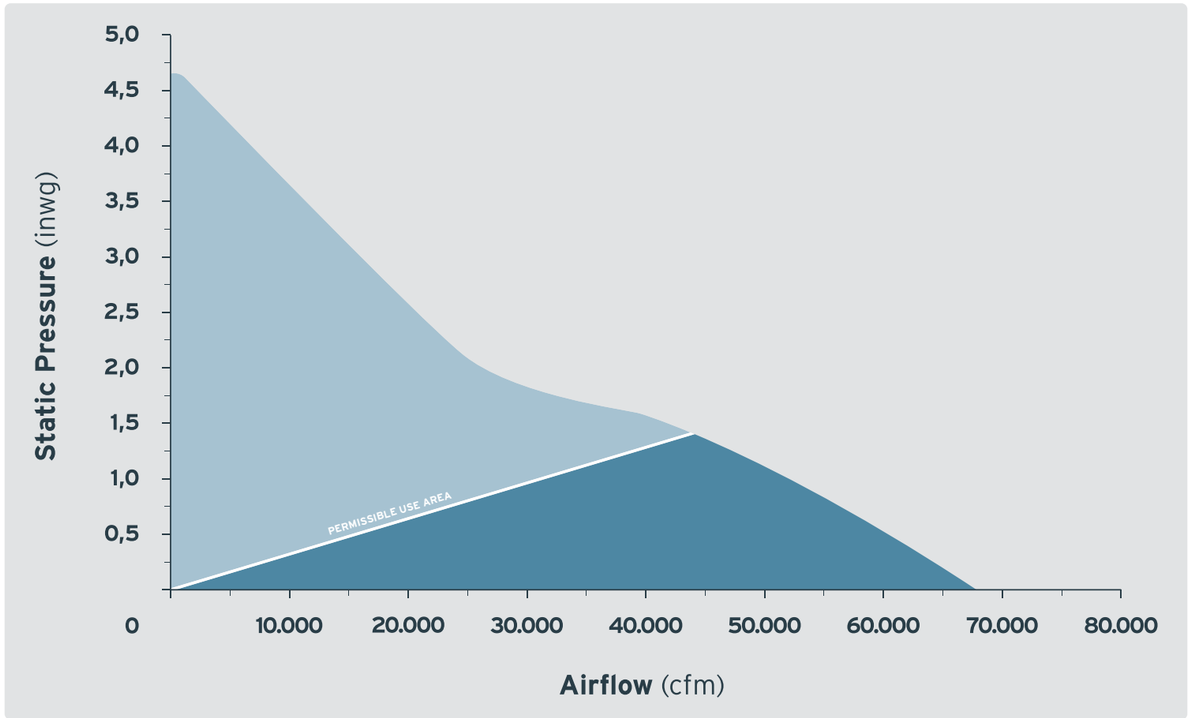
1,600 mm
(63.0 in)
EC

p. 12-13

1,800 mm
(71.0 in)
EC

p. 14-15

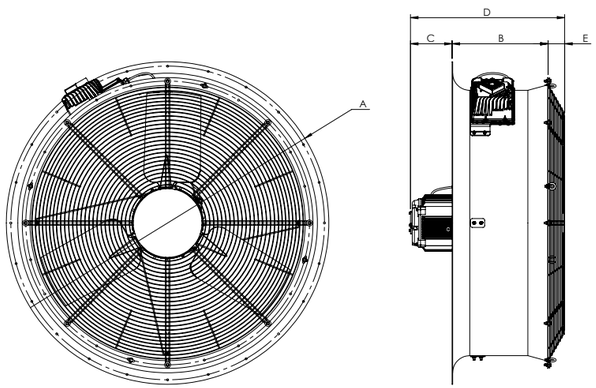
59.0 in
KL.1500X



Conditions
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 0.699 lb/ft³ (68° 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.

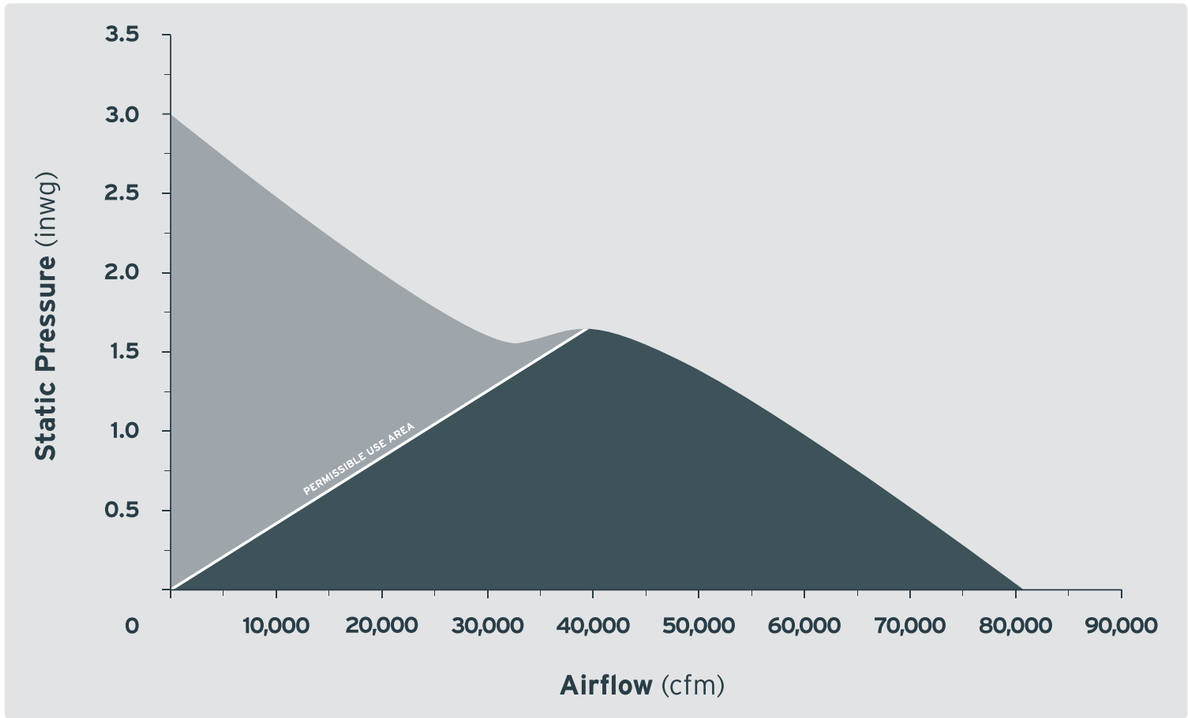
Dimensions

	A [in]	B [in]	C [in]	D [in]	E [in]
1	72.0	21.5	7.7	32.8	3.7



	PART NUMBER	SPECIFICATION CODE	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (inwg)	MAX. SPEED (RPM)
1	FP150000002	JUW 150 - 36 - 8B - 56 - L - Q Z X 3 X 5 - P - M R	16.34	24.56	1.37	850

63.0 in
KL.1600X



Conditions
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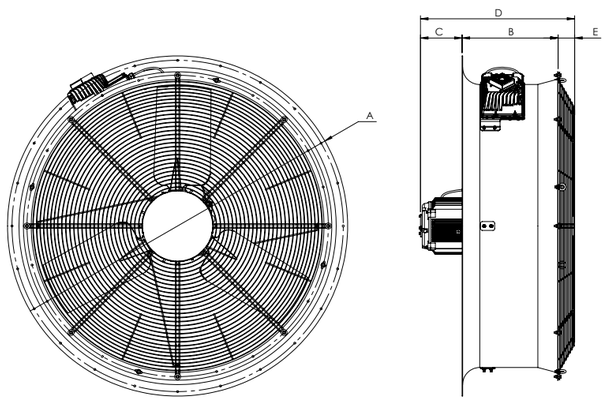
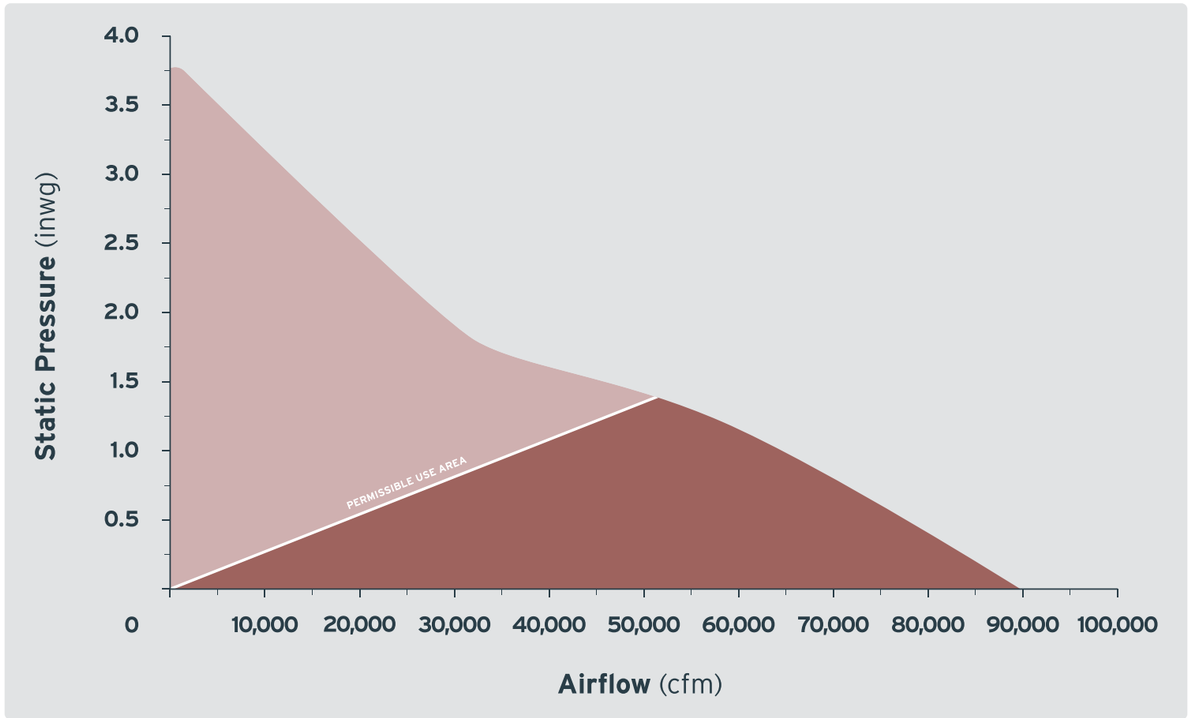
Dimensions

	A [in]	B [in]	C [in]	D [in]	E [in]
1	76.0	21.5	7.7	32.8	3.7



	PART NUMBER	SPECIFICATION CODE	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (inwg)	MAX. SPEED (RPM)
1	FP160000005	JUW 160 - 39 - 8B - 53 - L - Q Z X 3 X 5 - P - M R	16.45	24.73	1.33	800

71.0 in
KL.1800X



Conditions
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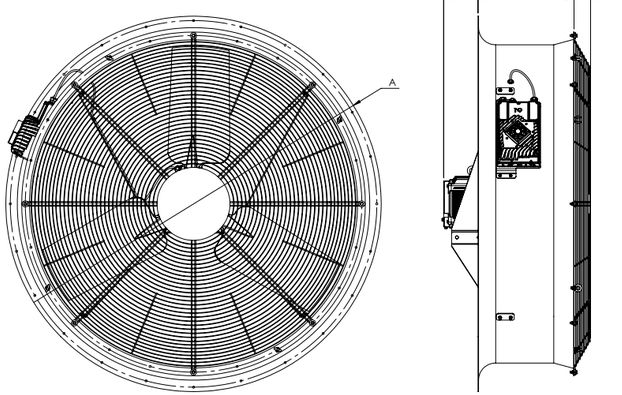
Dimensions

	A [in]	B [in]	C [in]	D [in]	E [in]
1	83.9	21.5	7.7	32.8	3.7



	PART NUMBER	SPECIFICATION CODE	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (inwg)	MAX. SPEED (RPM)
1	FP180000003	JUW 180 - 33 - 8B - 49 - L - Q Z X 3 X 5 - P - M R	16.45	24.73	1.37	740

SHAPING AIRFLOW FOR FUTURE GENERATIONS

MULTI*WING

A GREENER TRANSITION

Central to our mission and strategy is a concern for environmental impact - of our business, products, and their applications.

EFFICIENT & DURABLE FANS

Designed to reduce energy consumption, lowering costs and CO_2 emissions.

LEGISLATION COMPLIANCE

Exceeding ESPR and DOJ standards for peace of mind.

LIFETIME MAXIMATION

Fans are repairable and serviceable, making them last longer, decreasing raw material use.

DRIVE REPLACEABILITY

Design for proper recycling of electronics at end of life.

SCIENCE-BASED TARGETS

Approved with a market leading net zero goals aligned with the Paris treaty.

UN GLOBAL COMPACT

Active membership of the world's #1 corporate sustainability initiative.

RECYCLED MATERIALS

>90% recycled aluminum from our main source.

GLOBAL PROXIMITY

Minimizing shipment of components and offering returnable packaging.

OUR DEDICATED ESG TEAM

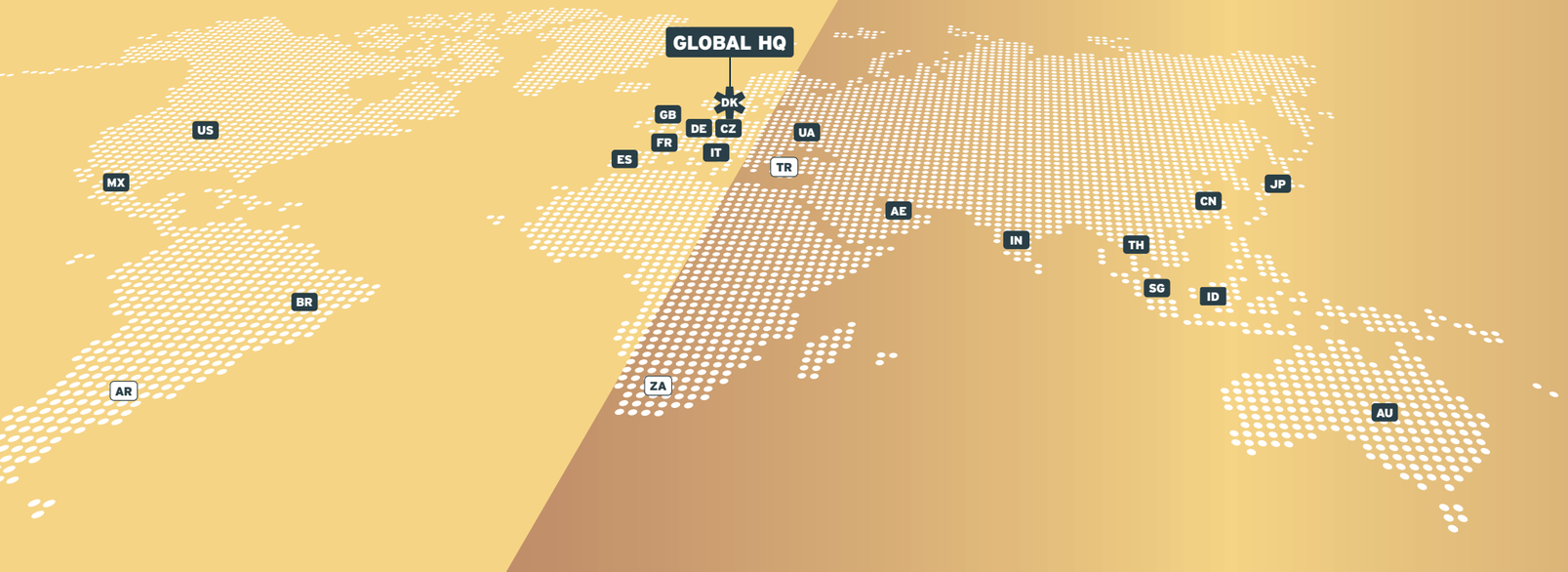
Ready to help you achieve your sustainability goals.

OUR COMMITMENT TO SUSTAINABILITY

GLOBAL REACH, LOCAL PRESENCE

Fast and relevant support.
Anywhere in the world.

Our global team of Multi-Wing engineers and technicians is like a well-oiled machine, working together to keep things running smoothly. Our major hubs and local entities act as one team with only one purpose: Giving you the best experience.



WHERE ARE YOU FROM?

No matter where, we look forward to serving you.

GLOBAL HEADQUARTERS

Staktoften 16
2950 Vedbæk (Copenhagen), Denmark

+45 4589 0133
info@multi-wing.com

EUROPE

Czechia • Nový Bydžov (Hradec Králové)
France • Gien (Orléans)
Germany • Quickborn (Hamburg)
Italy • Settimo Milanese (Milan)
Spain • La Roca del Vallès (Barcelona)
Ukraine • Horodok (Lviv)
United Kingdom • Thurmaston (Leicester)

NORTH AMERICA

Mexico • Apodaca (Monterrey)
USA • Middlefield (Cleveland), Ohio

ASIA / PACIFIC

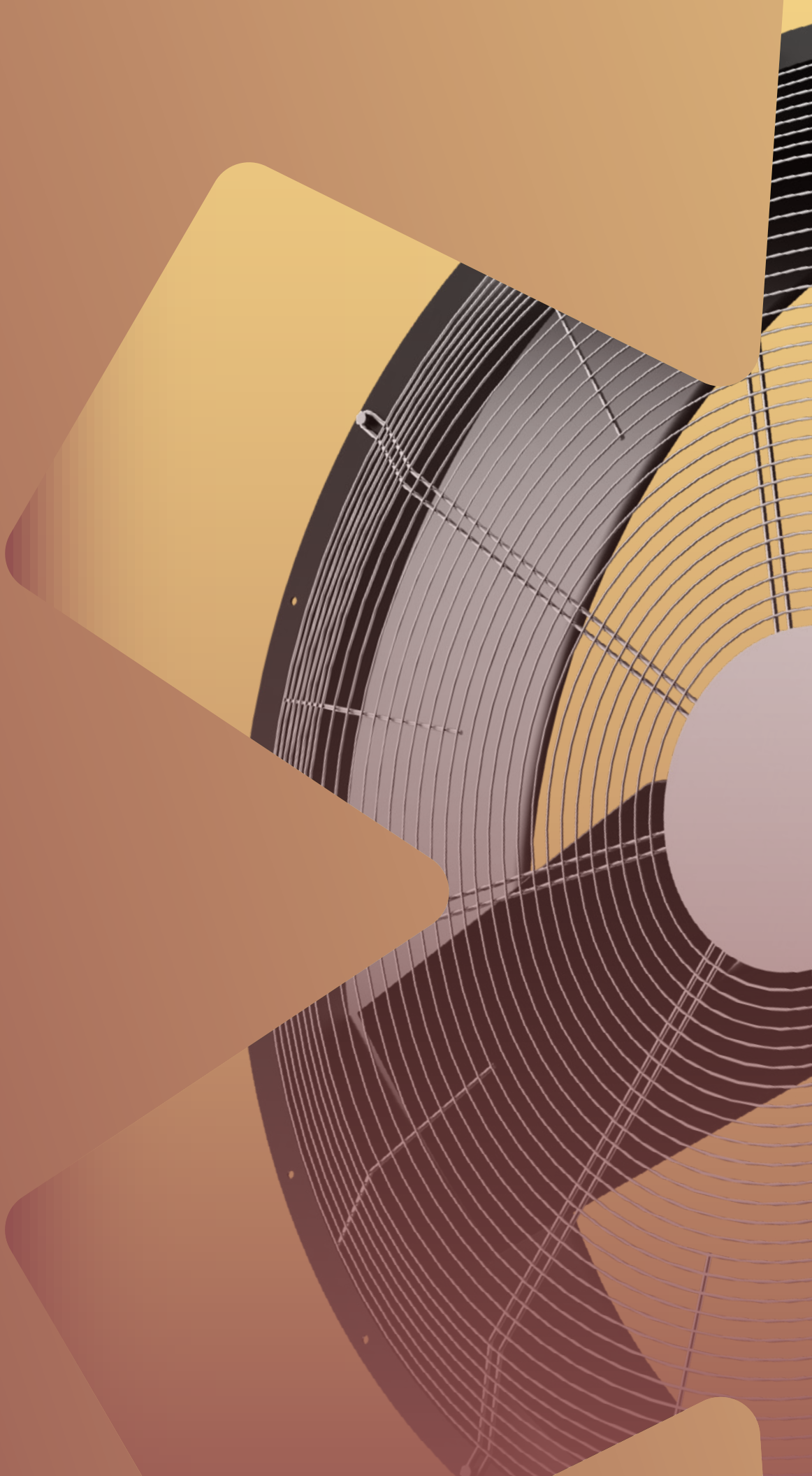
Australia • Tullamarine (Melbourne)
China • Suzhou
India • Pune
Indonesia • Bekasi (Jakarta)
Japan • Tokyo
Singapore • Singapore
Thailand • Samut Prakan (Bangkok)

MIDDLE EAST / AFRICA

South Africa • Rispark (Johannesburg)
Türkiye • Nilüfer (Bursa)
United Arab Emirates • Dubai

SOUTH AMERICA

Argentina • Buenos Aires
Brazil • Pomerode, Santa Catarina



Get in touch

multi-wing.com
info@multi-wing.com