MULTI*WING

STANDARD INDUSTRY SIZES – EXCEPTIONAL IN ALL OTHER REGARDS

C-SERIES
AXIAL FANS

EC

WE'VE REIMAGINED THE AXIAL FAN

C-SERIES
EC

Highlights

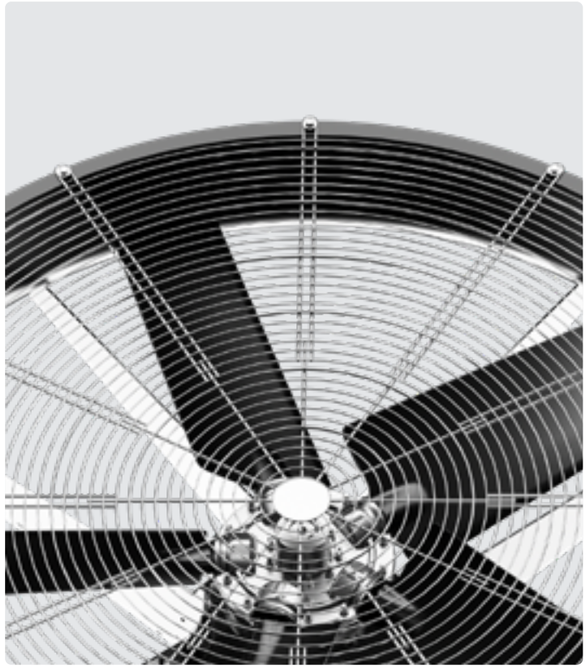
C-series fans are compact, quiet and highly efficient. Great for applications where static pressure is low to medium.

C-SERIES
OVERVIEW

They are your ideal choice for dry coolers, adiabatic dry coolers, condensers, chillers, open- or closed-circuit cooling towers and the likes.

Plug and Play

Multi-Wing's fans share clever engineering, robust construction, and perfectly matched components designed to work seamlessly together.



One-stop swap

The C-series axial fans offer a unique feature of individual serviceability. This means you have the flexibility to service and replace parts such as the, motor, drive, impeller, casing and supports/grill as per your requirements.

Modular impeller

Multi-Wing Modular impellers sits at the core of the C-series tailoring airflow to your needs, ensuring optimal performance without compromise.

Built for the elements

With exterior winding close to the airflow surface, our motor dissipates heat better than traditional designs. This results in enhanced durability against temperature swings and moisture, lower motor temperatures and longer bearing lubrication life.

Ready for ESPR

Thanks to the efficient combination of our modular impellers and the internal rotor motors, Multi-Wing's EC axial fans are ready for requirements in the EU's Ecodesign for Sustainable Products Regulation (ESPR).

Tough as Nails

Superior IP-rated motors: Standard models come with an IP55 rating, upgradeable to IP66. This level of protection is unmatched by traditional fan motors.

HVAC&R
APPLICATIONS

- Energy efficiency
- Durability
- Noise level

High performance meets high requirements

Our C-series EC fans are the perfect fit for low and medium static pressure applications. Our internal rotor motor makes it compact, fans are available in standard industry sizes, market leading standard features and with multiple add on packages to accommodate high/low temperature, high humidity and harsh environments.

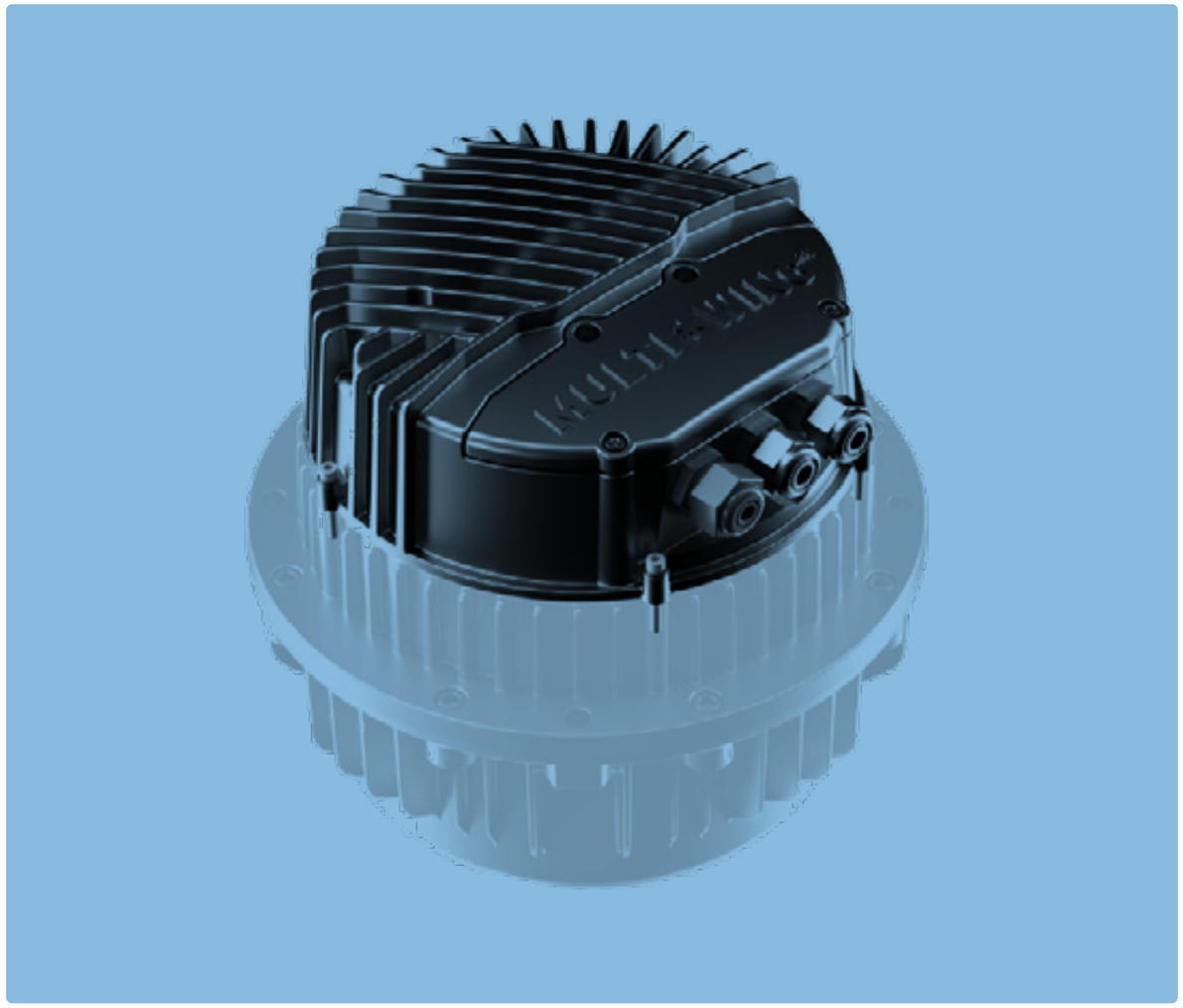
DATA CENTERS
THE PERFECT FIT

Keep your cool

Rising energy usage continues to be a key challenge for data centers, and achieving green targets is a top priority, as consumers demand greener solutions. Hyperscale data center operators are chasing sustainable operations, while many Co-Location and smaller operators follow suit. Consequently, all fans required for data center applications must be highly reliable and performance to the highest energy efficiency standards. Similarly, as a large share of operating costs relates to cooling, energy efficiency fans provide significant bottom-line impact.
Equip your data center with a Multi-Wing Axial fan to meet the industry-wide requirements of the future.

THE TECHNOLOGY BEHIND OUR EC FANS

Crafted in-house, our proprietary EC technology is tailored to your unique needs. It's the genius behind our 800-, 910-, and 1000-mm C-series EC fans. Simplicity, robustness, and modularity, all built on a foundation of well-tested and proven components.



Effortless software

Our open MODBUS protocol is like a chameleon – we can adjust it just for you. It's plug and play, with software updates distributed via MODBUS. Plus, it features a logging function for seamless service and troubleshooting.

Enhanced power grid support

The 3-phase 380–480 V drive supports multiple different distribution systems including TN, TT, IT, and corner grounding. Equipped with Modbus RTU (RS485) and 4 configurable I/O ports, it offers flexible integration and control.

Precision engineering

Our aerodynamic expertise ensures the drive's cooling fins dissipate heat to support high temperature operation.
Precision engineering at its finest.

Accessible design

We know installation and service are crucial, so we've maximized the lid and made the cable connections removable for your convenience.

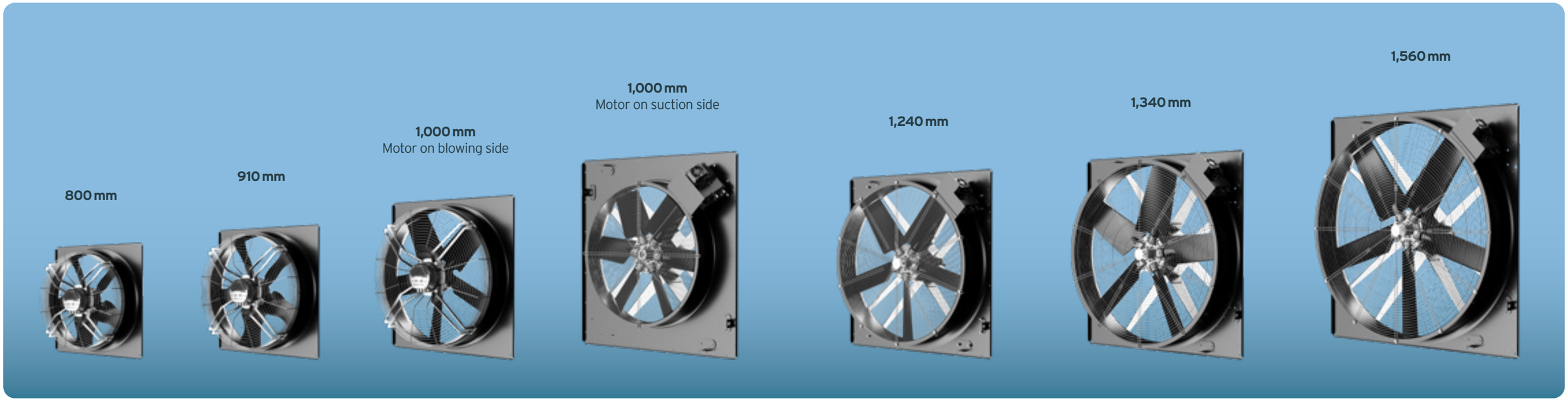
Plug-and-play components

If anything goes wrong, the drive is independently replaceable.
Plug and play – it's that simple.

Seamless connectivity

Easily daisy chain power and connection of up to four cables. Connectivity has never been this straightforward.

C-SERIES FAMILY

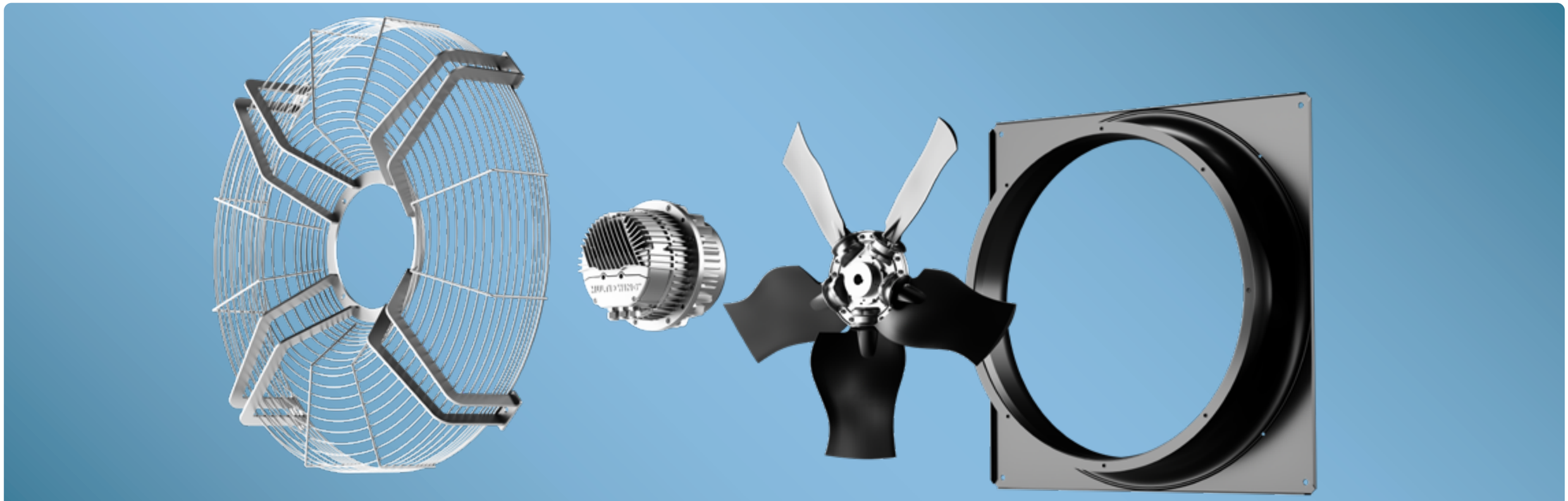


Standard features

Power supply	EC 380-480V (50/60 Hz)
Temperature	-40°C to +65°C
Ingress protection	IP55
Insulation class	F
Certification	CE / UK / UL
Motor body	Aluminium or cast iron
Compliancy	ErP2015 compliant & ESPR 2024 ready
Impeller	Reinforced blades and aluminium alloy hub
Fan housing	Pre-galvanized steel and powder coating
Fan guard and support	Electrolytic galvanizing and powder coating

Application-specific packages

1	Seashore	2	Offshore	3	Food industry low temp.
	C5 Medium protection for motor, casing, support and impeller		Additionally to Seashore, casing and support is manufactured in AISI 316L		Casing and support AISI 316L protection and start-up -40°C to +50°C
4	Cooling tower	5	Low temperature	6	Increased ingress protection
	Relative humidity up to 95%		Start-up -40°C to +50°C		Motor IP rating increased to IP66



Fan guard

All fan guards are supplied with electrolytic galvanizing and powder coating. Stainless steel is an option.

Motor

Multi-Wing's internal rotor motor is featured on fans with both blowing-side and suction-side positions. For fans 1,000 mm and smaller, it's compact and mounted on the blowing side. When more power is needed, we use a shaft-up motor on the suction side.

Modular Impeller

The efficient EMAX and SP9 impellers offer top performance for 800- and 910-mm fans. For larger sizes, rely on the proven W-series impeller. Need something more specific? Choose from over 100,000 impeller variants to optimize your airflow.

Fan housing

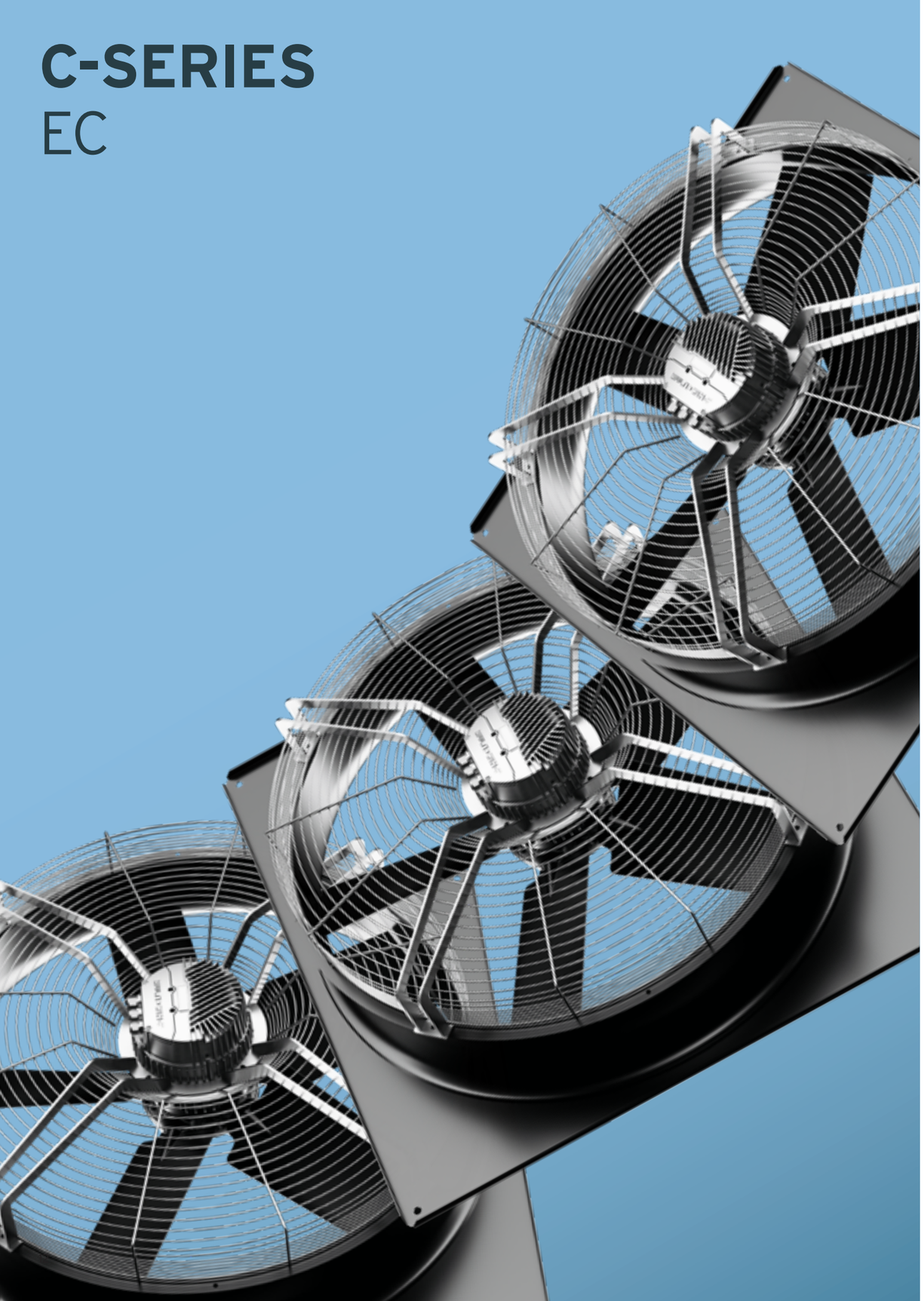
Our own design and production. Square plate, round or no plate at all – we make it fit your application, even when you need it in stainless steel.

Proprietary EC technology

Crafted in-house, our proprietary EC technology is tailored to your unique needs. It's the genius behind our 800-, 910-, and 1000-mm C-series EC fans. Simplicity, robustness, and modularity, all built on a foundation of well-tested and proven components.

Variants

C-SERIES
EC



EC Motors

800 mm
p. 14-15

910 mm
p. 16-17

1,000 mm

Motor on blowing side
p. 18-19

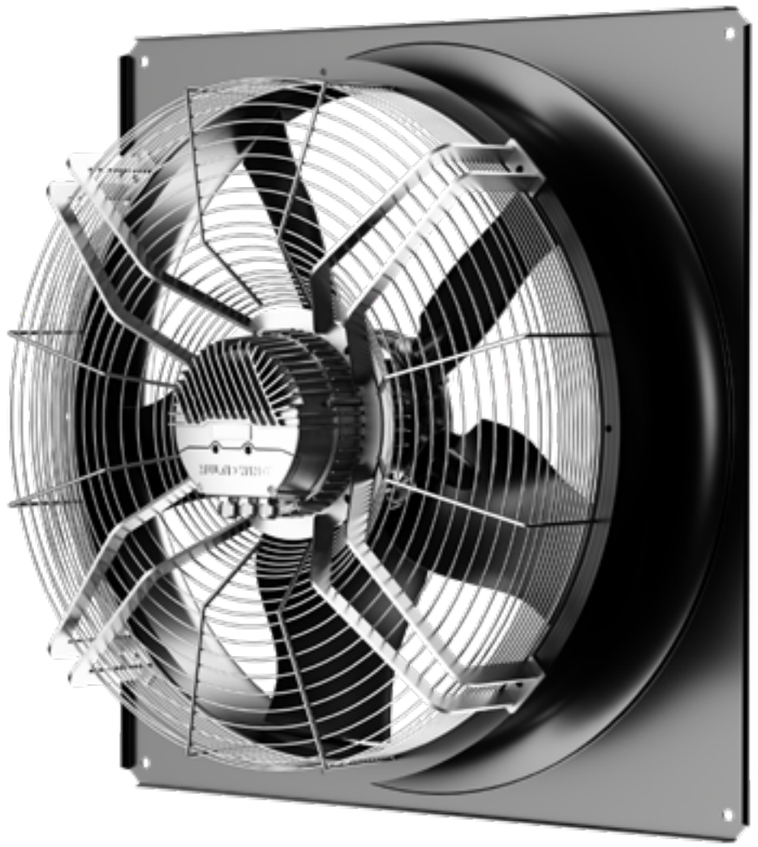
Motor on suction side
p. 20-21

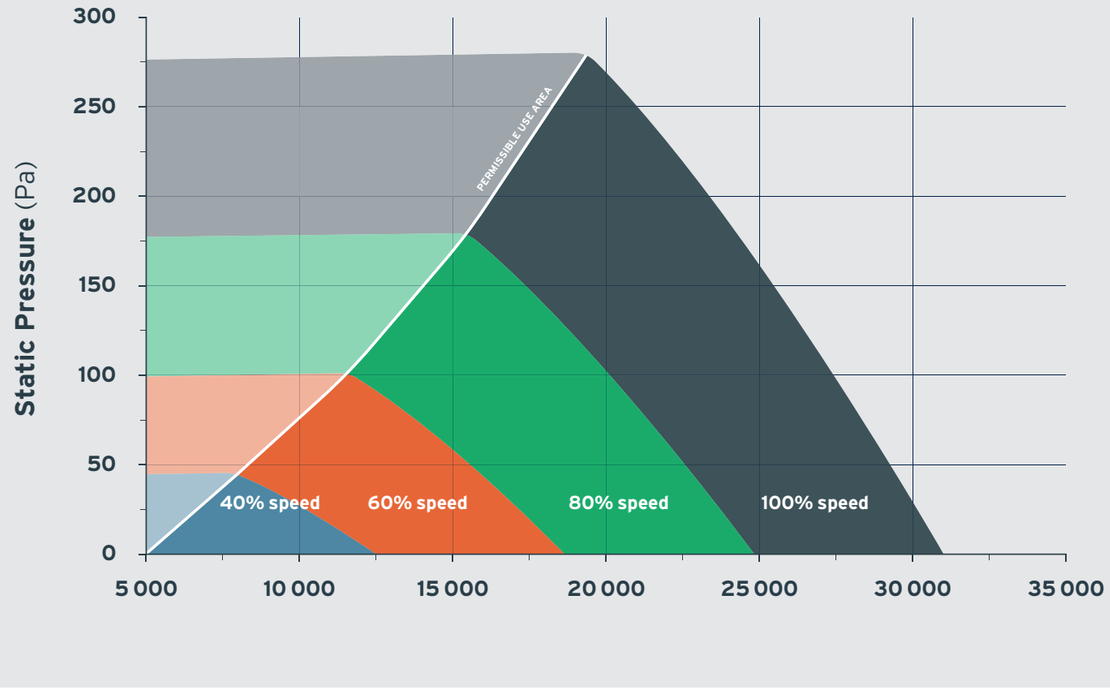
1,240 mm
p. 22-23

1,340 mm
p. 24-25

1,560 mm
p. 26-27

C-SERIES
800 mm





Conditions

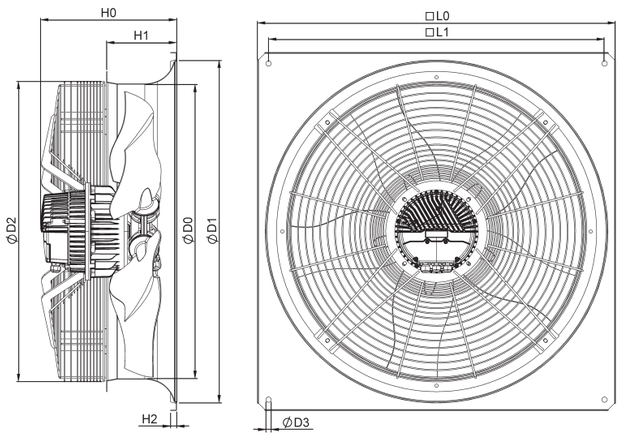
Measuring conditions: Performance data is measured after ISO 5801, installation category A, as a complete axial fan without fan guard. Data refer to air density 1,2kg/m³ (20° sea level). Sound data is measured at suction-side. The data apply only under the specified measuring conditions and may change 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.

Legend

1 DIW 080-42-8B-80-G-QZ05V0-A (100%)
2 DIW 080-42-8B-80-G-QZ05V0-A (80%)
3 DIW 080-42-8B-80-G-QZ05V0-A (60%)
4 DIW 080-42-8B-80-G-QZ05V0-A (40%)

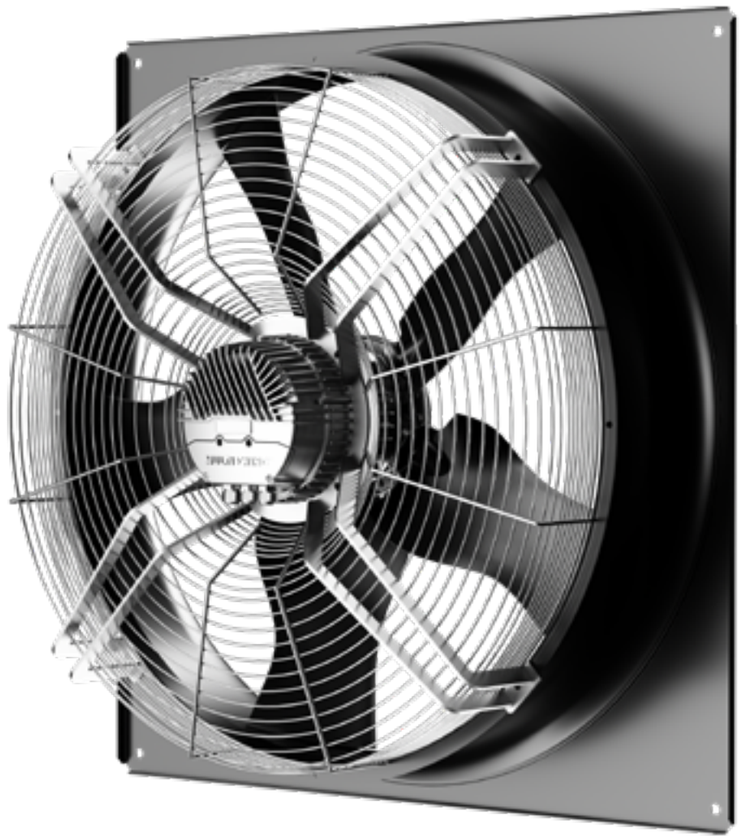
Dimensions

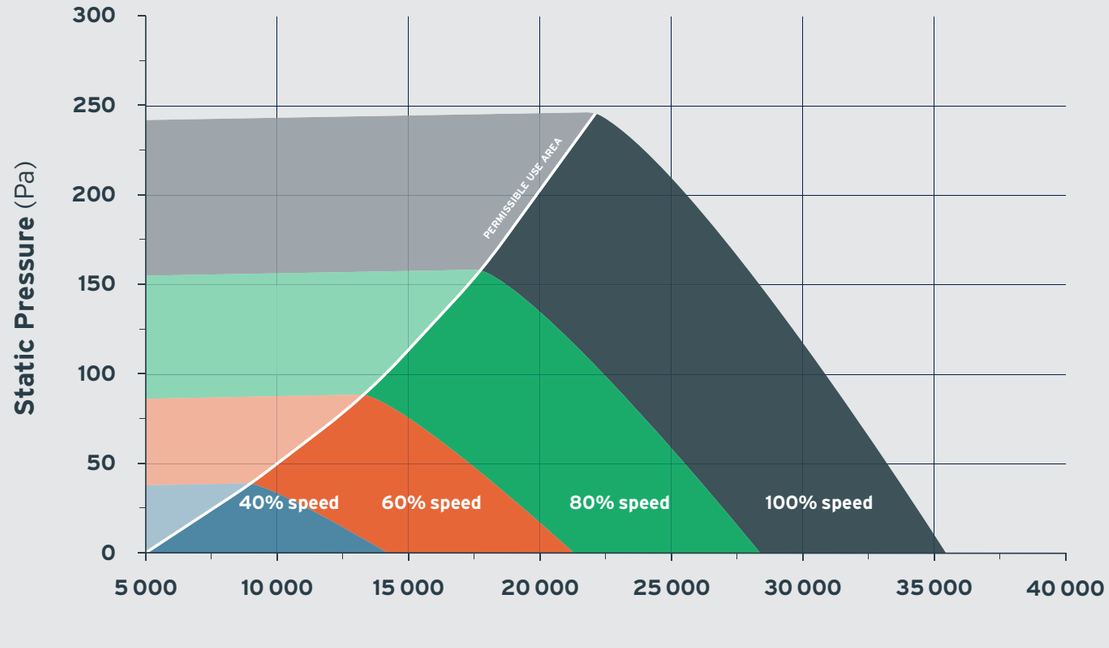
L0 [mm]	L1 [mm]	D0 [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H0 [mm]	H1 [mm]	H2 [mm]
970	910	797	928	814	14.5	370	190	17



PART NUMBER		SPECIFICATION CODE	SPEED (RPM)	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (Pa)
2401073	1	DIW 080-42-8B-80-G-QZ05V0-A (100%)	1200	3.34	5.30	280
	2	DIW 080-42-8B-80-G-QZ05V0-A (80%)	960	1.71	2.71	179
	3	DIW 080-42-8B-80-G-QZ05V0-A (60%)	720	0.72	1.14	101
	4	DIW 080-42-8B-80-G-QZ05V0-A (40%)	480	0.21	0.34	45

C-SERIES
910 mm





Conditions

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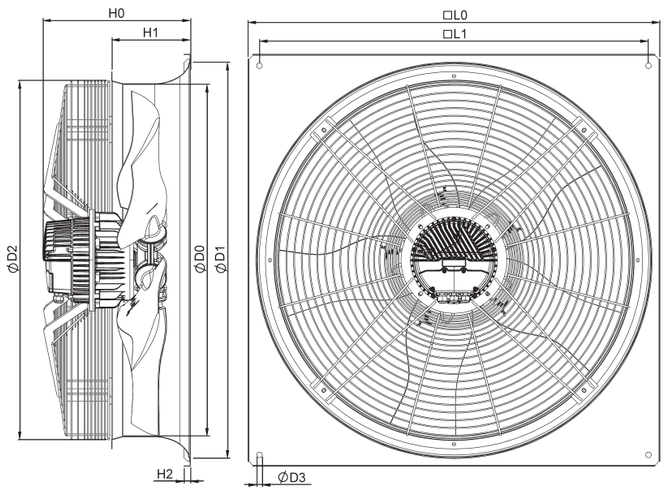
Legend

1. DIW 091-38-8B-70-G-QZ05V0-A (100%)
2. DIW 091-38-8B-70-G-QZ05V0-A (80%)
3. DIW 091-38-8B-70-G-QZ05V0-A (60%)
4. DIW 091-38-8B-70-G-QZ05V0-A (40%)

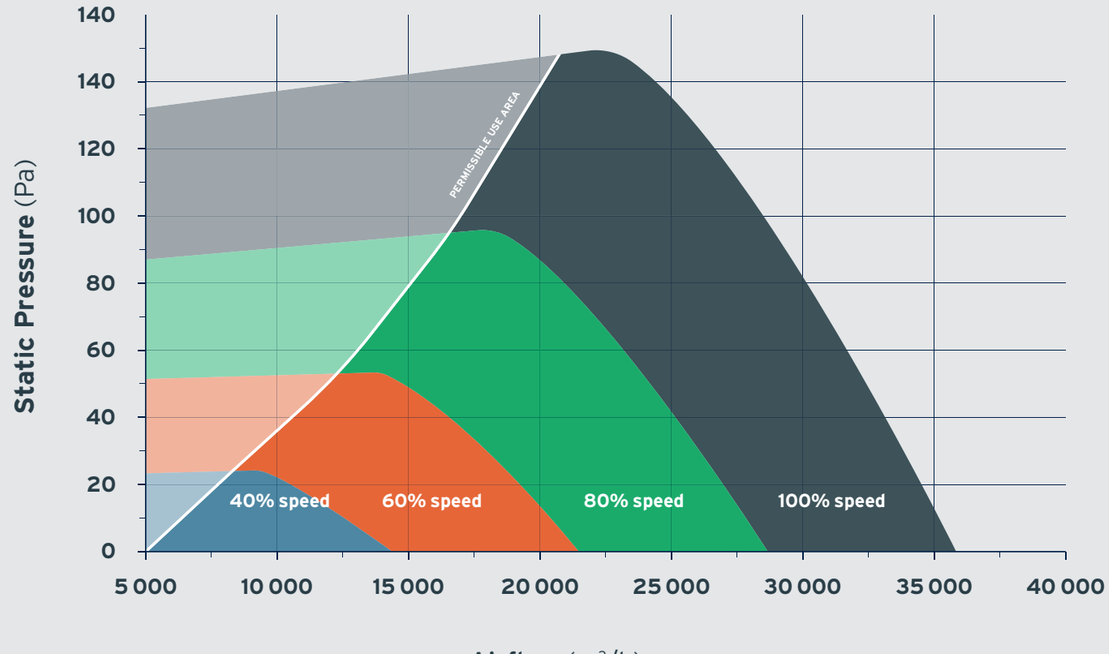
Dimensions

L0 [mm]	L1 [mm]	D0 [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H0 [mm]	H1 [mm]	H2 [mm]
1070	1010	914	1025	934	14.5	385	205	17



PART NUMBER		SPECIFICATION CODE	SPEED (RPM)	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (Pa)
2401074	1	DIW 091-38-8B-70-G-QZ05V0-A (100%)	1050	3.07	4.86	246
	2	DIW 091-38-8B-70-G-QZ05V0-A (80%)	840	1.57	2.49	158
	3	DIW 091-38-8B-70-G-QZ05V0-A (60%)	630	0.66	1.05	89
	4	DIW 091-38-8B-70-G-QZ05V0-A (40%)	420	0.20	0.31	39

C-SERIES
1,000 mm
Motor on blowing side



Conditions

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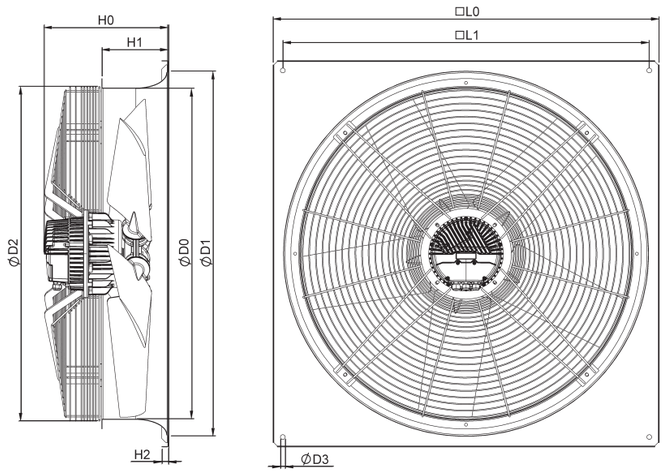
Legend

1. DIW 100-36-8B-50-G-QZH5V0-A (100%)
2. DIW 100-36-8B-50-G-QZH5V0-A (80%)
3. DIW 100-36-8B-50-G-QZH5V0-A (60%)
4. DIW 100-36-8B-50-G-QZH5V0-A (40%)

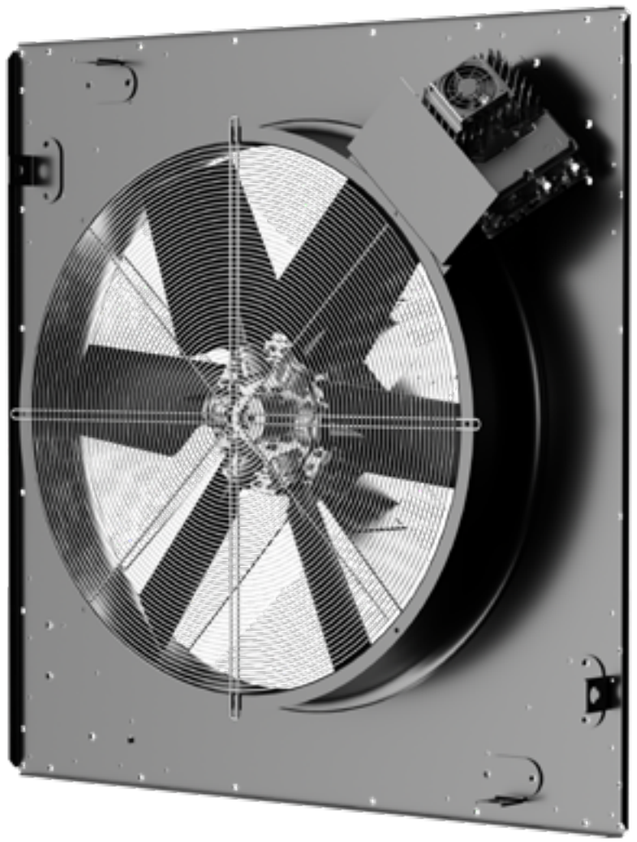
Dimensions

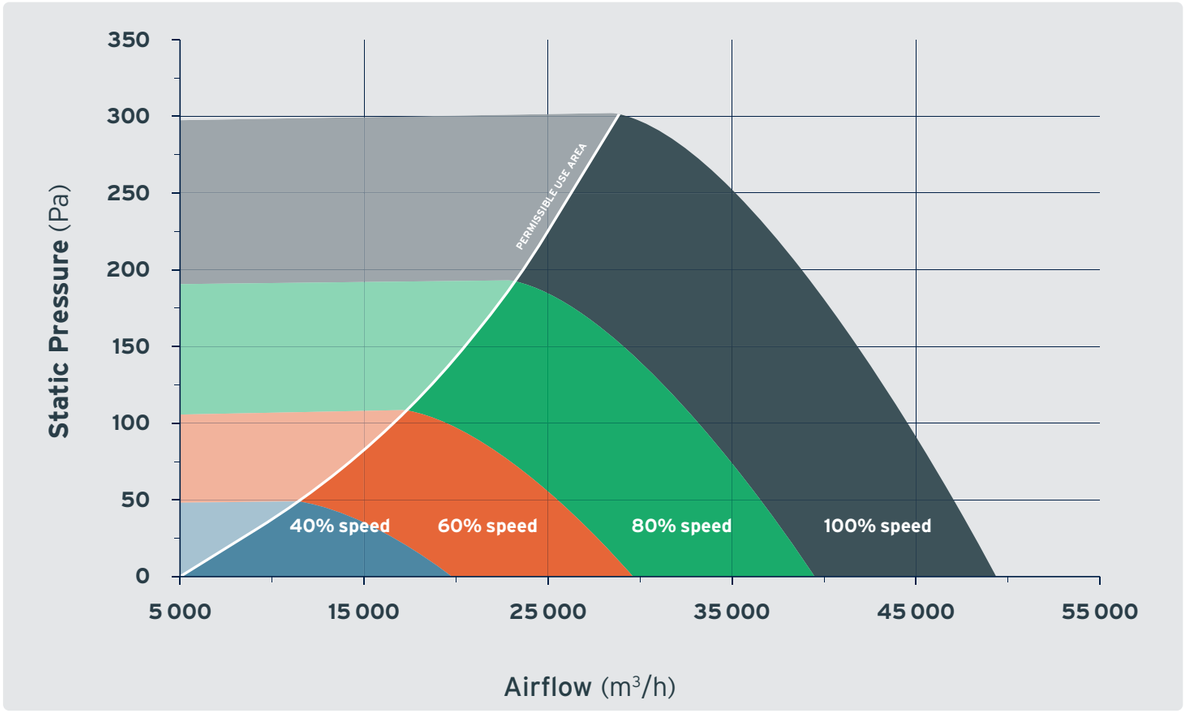
L0 [mm]	L1 [mm]	D0 [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H0 [mm]	H1 [mm]	H2 [mm]
1170	1110	1001	1106	1014	14.5	380	200	20



PART NUMBER		SPECIFICATION CODE	SPEED (RPM)	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (Pa)
2401075	1	DIW 100-36-8B-50-G-QZH5V0-A (100%)	750	2.28	3.61	148
	2	DIW 100-36-8B-50-G-QZH5V0-A (80%)	600	1.17	1.85	95
	3	DIW 100-36-8B-50-G-QZH5V0-A (60%)	450	0.49	0.78	53
	4	DIW 100-36-8B-50-G-QZH5V0-A (40%)	300	0.15	0.23	24

C-SERIES
1,000 mm
Motor on suction side





Conditions

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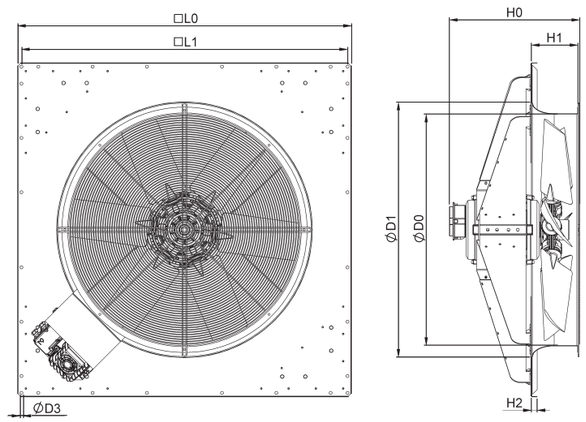
Legend

1. JWW 100-37-8B-70-K-QZH6O4-P (100%)
2. JWW 100-37-8B-70-K-QZH6O4-P (80%)
3. JWW 100-37-8B-70-K-QZH6O4-P (60%)
4. JWW 100-37-8B-70-K-QZH6O4-P (40%)

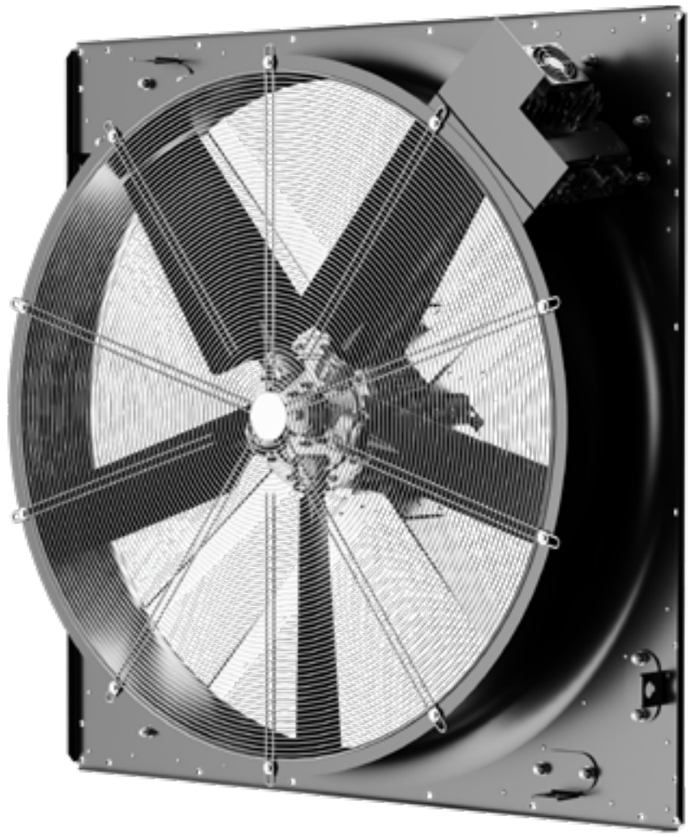
Dimensions

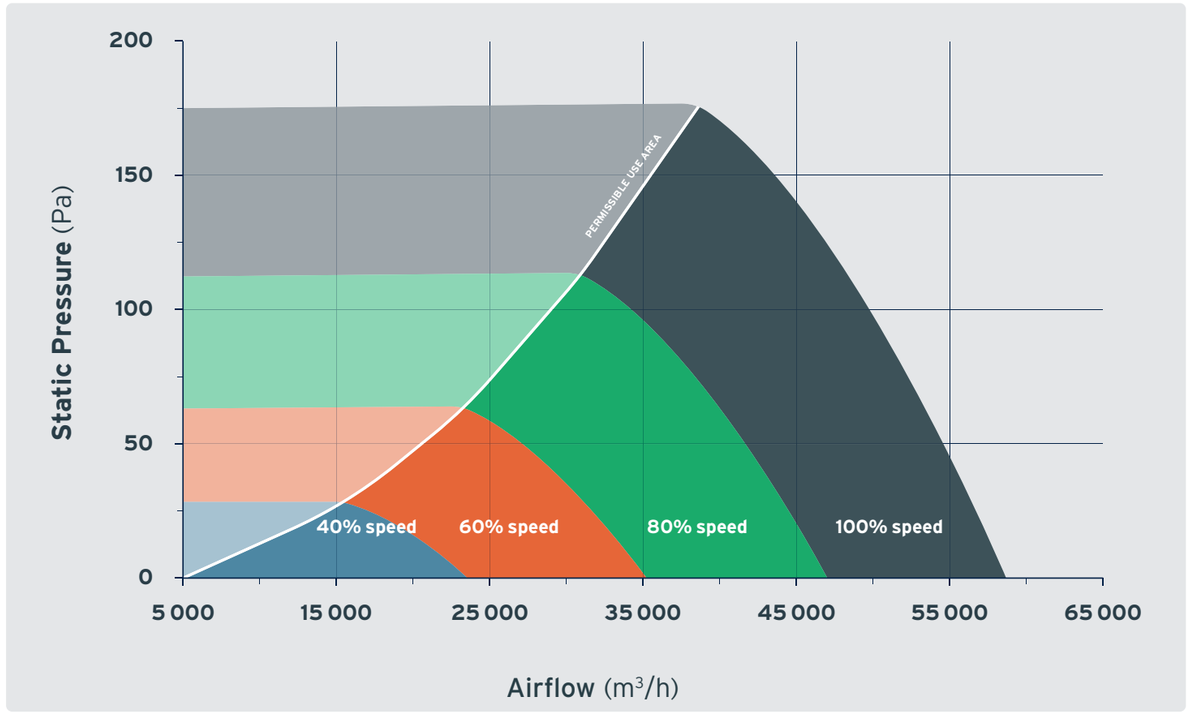
L0 [mm]	L1 [mm]	D0 [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H0 [mm]	H1 [mm]	H2 [mm]
1445	1411	1001	1106	\	13	565	200	25



PART NUMBER		SPECIFICATION CODE	SPEED (RPM)	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (Pa)
2401076	1	JWW 100-37-8B-70-K-QZH6O4-P (100%)	1050	5.30	8.41	303
	2	JWW 100-37-8B-70-K-QZH6O4-P (80%)	840	2.72	4.31	194
	3	JWW 100-37-8B-70-K-QZH6O4-P (60%)	630	1.15	1.82	109
	4	JWW 100-37-8B-70-K-QZH6O4-P (40%)	420	0.34	0.54	49

C-SERIES
1,240 mm





Conditions

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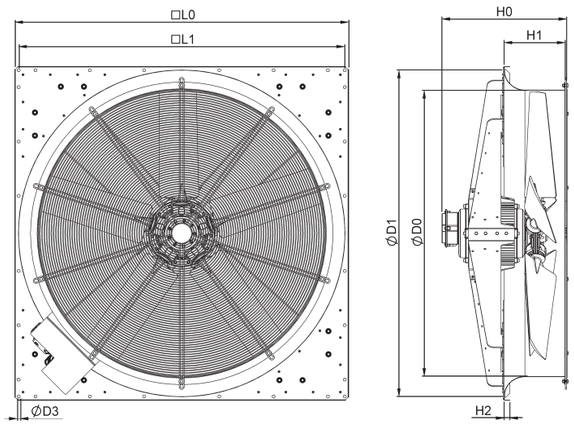
Legend

1. JWW 124-37-8B-50-K-QZH5O4-P (100%)
2. JWW 124-37-8B-50-K-QZH5O4-P (80%)
3. JWW 124-37-8B-50-K-QZH5O4-P (60%)
4. JWW 124-37-8B-50-K-QZH5O4-P (40%)

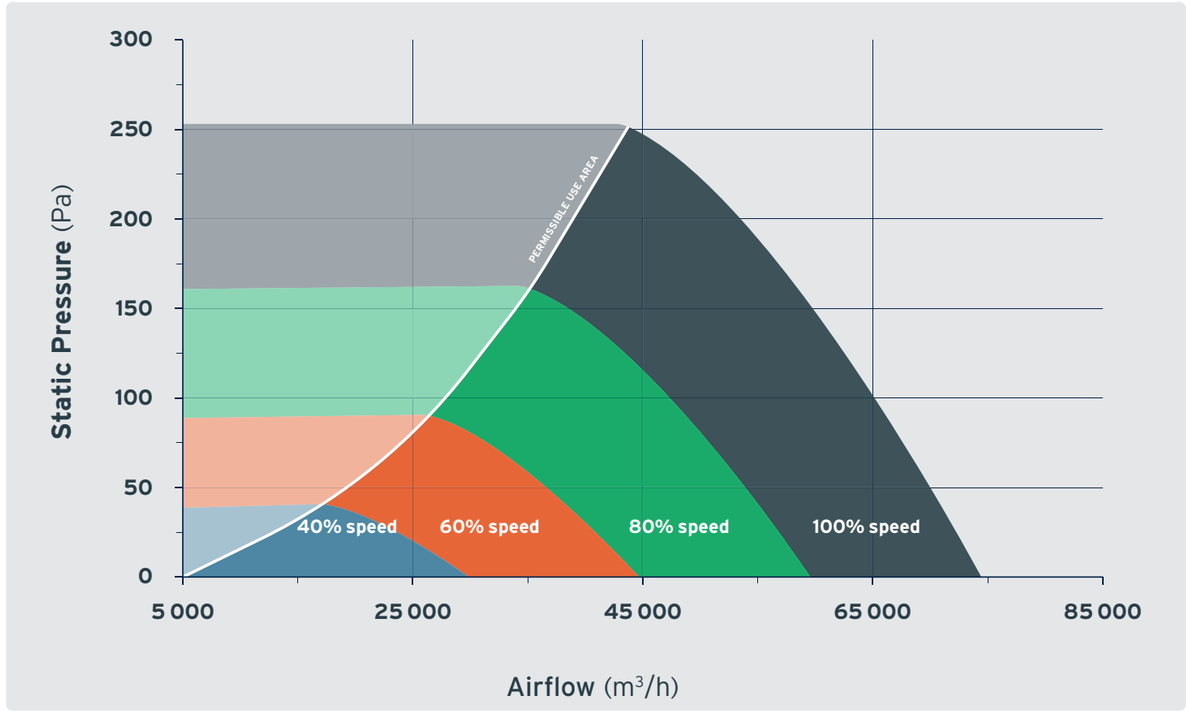
Dimensions

L0 [mm]	L1 [mm]	D0 [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H0 [mm]	H1 [mm]	H2 [mm]
1445	1411	1238	1423	\	13	540	265	25



PART NUMBER		SPECIFICATION CODE	SPEED (RPM)	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (Pa)
2401077	1	JWW 124-37-8B-50-K-QZH5O4-P (100%)	750	4.19	6.65	177
	2	JWW 124-37-8B-50-K-QZH5O4-P (80%)	600	2.15	3.40	113
	3	JWW 124-37-8B-50-K-QZH5O4-P (60%)	450	0.91	1.44	64
	4	JWW 124-37-8B-50-K-QZH5O4-P (40%)	300	0.27	0.43	28

C-SERIES
1,340 mm



Conditions

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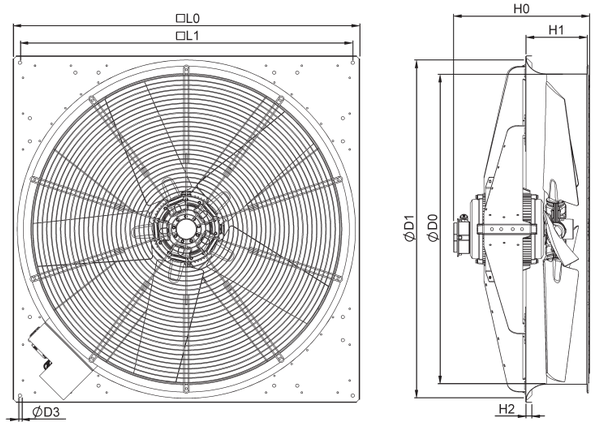
Legend

1. JWW 134-34-8B-50-K-QZM5A4-P (100%)
2. JWW 134-34-8B-50-K-QZM5A4-P (80%)
3. JWW 134-34-8B-50-K-QZM5A4-P (60%)
4. JWW 134-34-8B-50-K-QZM5A4-P (40%)

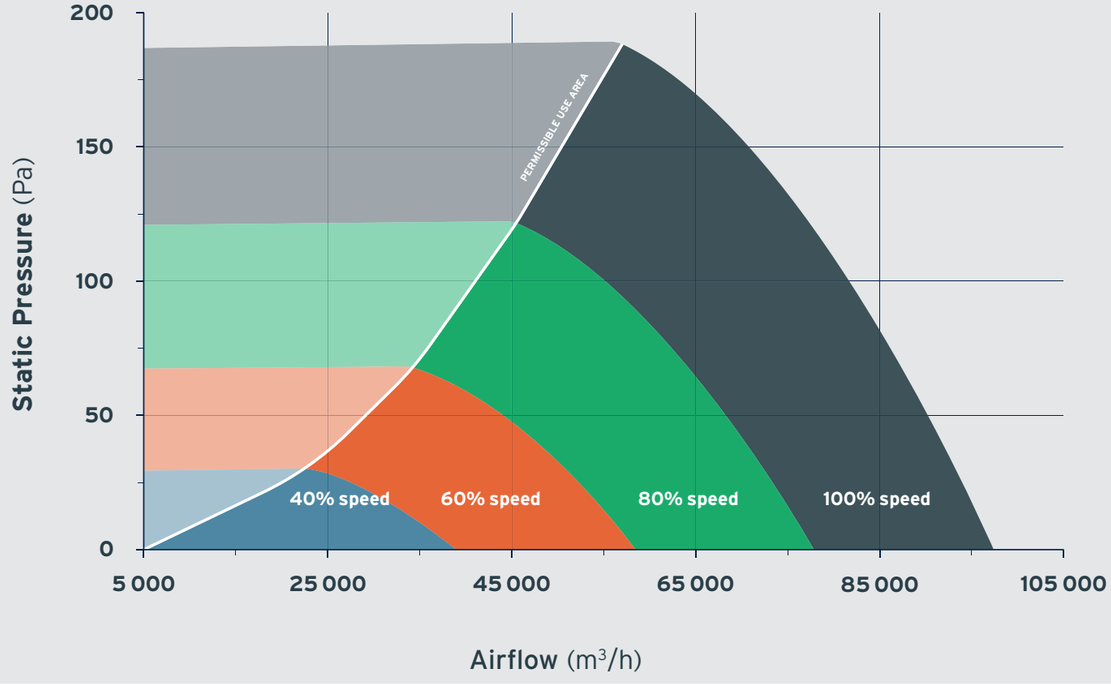
Dimensions

L0 [mm]	L1 [mm]	D0 [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H0 [mm]	H1 [mm]	H2 [mm]
1445	1411	1238	1413	\	13	590	265	25



PART NUMBER		SPECIFICATION CODE	SPEED (RPM)	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (Pa)
2401078	1	JWW 134-34-8B-50-K-QZM5A4-P (100%)	750	6.46	10.25	254
	2	JWW 134-34-8B-50-K-QZM5A4-P (80%)	600	3.31	5.25	163
	3	JWW 134-34-8B-50-K-QZM5A4-P (60%)	450	1.40	2.21	91
	4	JWW 134-34-8B-50-K-QZM5A4-P (40%)	300	0.41	0.66	41

C-SERIES
1,560 mm



Conditions

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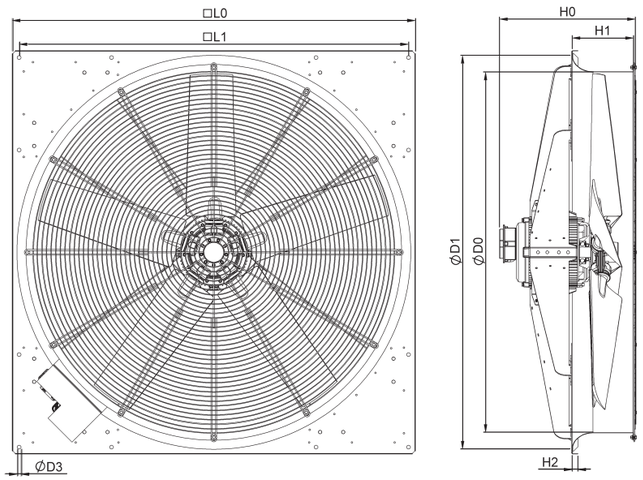
Legend

1. JWW 156-39-8B-40-K-QZM5A4-P (100%)
2. JWW 156-39-8B-40-K-QZM5A4-P (80%)
3. JWW 156-39-8B-40-K-QZM5A4-P (60%)
4. JWW 156-39-8B-40-K-QZM5A4-P (40%)

Dimensions

L0 [mm]	L1 [mm]	D0 [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H0 [mm]	H1 [mm]	H2 [mm]
1745	1685	1560	1704	\	16.5	590	265	25



PART NUMBER		SPECIFICATION CODE	SPEED (RPM)	MAX INPUT POWER (kW)	MAX. INPUT CURRENT (A)	MAX. BACK PRESSURE (Pa)
2401079	1	JWW 156-39-8B-40-K-QZM5A4-P (100%)	600	6.39	10.13	190
	2	JWW 156-39-8B-40-K-QZM5A4-P (80%)	480	3.27	5.19	122
	3	JWW 156-39-8B-40-K-QZM5A4-P (60%)	360	1.38	2.19	68
	4	JWW 156-39-8B-40-K-QZM5A4-P (40%)	240	0.41	0.65	30

SHAPING AIRFLOW FOR FUTURE GENERATIONS

MULTI*WING

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* 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

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ASIA / PACIFIC

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

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)

MIDDLE EAST / AFRICA

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

NORTH AMERICA

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

SOUTH AMERICA

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Brazil • Pomerode, Santa Catarina

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