



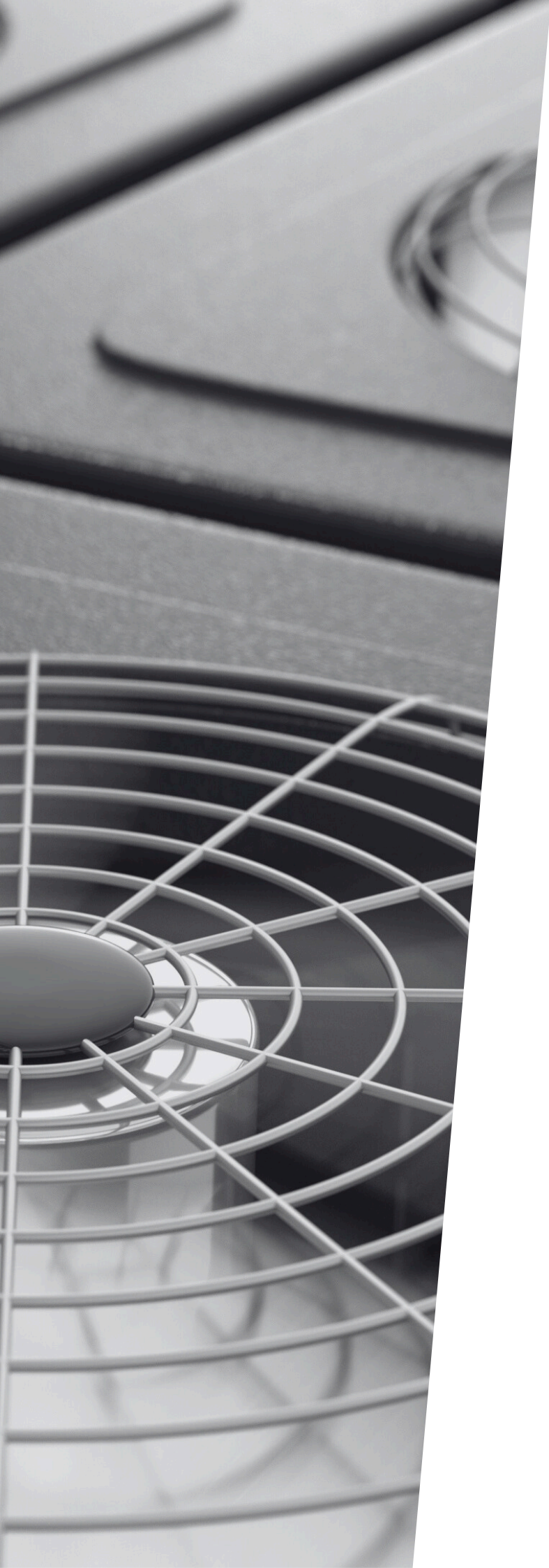
UNADA



CATALOGUE

2025





FAN SOLUTIONS

- LAGRANGE SERIES
AIRFLOW

EC MOTORS

- UC 100 SERIES
- UC 300 SERIES
- UC 400 SERIES

WIRING DIAGRAMS

EXTERNAL VIEWS

- FAN SOLUTIONS
- EC MOTORS

LAGRANGE SERIES

SHAPED BY DATA: Our second generation UNADA EC fanpacks, the Lagrange Series, sets an unrivalled level of efficiency for refrigeration solutions. Optimized for food retail and food service applications, the Lagrange Series is the ideal solution for OEMs seeking energy savings.

By closely collaborating with technology leaders in refrigerated cases, the new designs are the direct result of application data and expertise from customer cooperation with cutting-edge machine learning-aided design. The final product is optimized for low profile and quiet operation. A seamless drop-in solution, users of the first generation can now benefit from this leading industry technology

LAG200

FAN SERIES

NOMINAL DIAMETER, cm

FANPACK VARIATION

0	Integrated inlet cone
1	Integrated inlet cone and finger guard
4	Low profile integrated inlet cone
5	Finger guard
6	Moulded bracket
9	No support

SPECIFICATIONS

TEMPERATURE RANGE	:	-40°C to +50°C
SPEED SELECTION	:	3 Discrete Speeds; Programmable
TIMED REVERSE	:	Optional; Programmable
BEARINGS	:	Sealed ball bearings
INSULATION CLASS	:	Class B
MOTOR PROTECTION	:	Electronically protected (EP)

MODEL	NOMINAL DIAMETER		RATED VOLTAGE	FREQUENCY	PHASE	RATED SPEED	MAX FREE AIR FLOW		1550 RPM FREE AIR FLOW		APPROVALS	IP RATING	WIRING DIAGRAM
	cm.	inches	VAC	Hz		RPM	m³/h	cfm	m³/h	cfm			
LAG170	17	7	120 / 230	50/60	1~	400 to 2400	510	300	340	200	UL / CE / TÜV / ATEX	IP66	WA
LAG200	20	8	120 / 230	50/60	1~	400 to 2400	850	500	570	340	UL / CE / TÜV / ATEX	IP66	WA
LAG230	23	9	110-240	50/60	1~	400 to 2000	1000	590	780	460	UL / CE / TÜV	IP66	WA
LAG254	25	10	110-240	50/60	1~	400 to 2000	920	540	760	450	UL / CE / TÜV	IP66	WA
LAG300 Patent Pending	30	12	120-240	50/60	1~	400 to 1800	1890	1110	1540	910	UL	IP55	WB
LAG305 Patent Pending	30	12	120-240	50/60	1~	400 to 1800	1520	890	1290	760	UL	IP55	WB





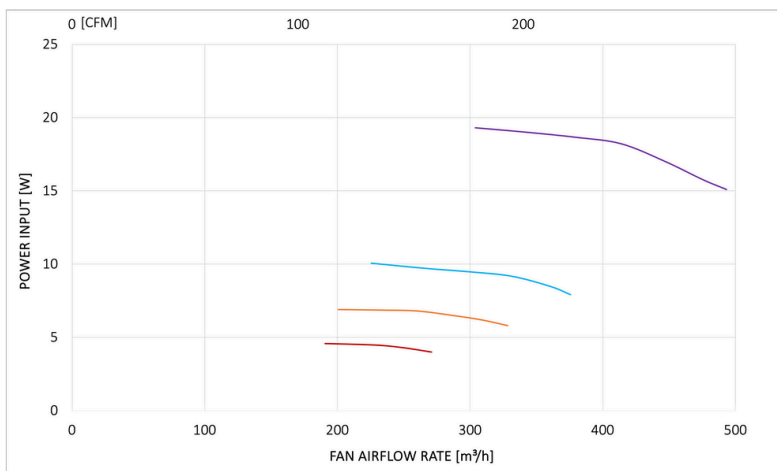
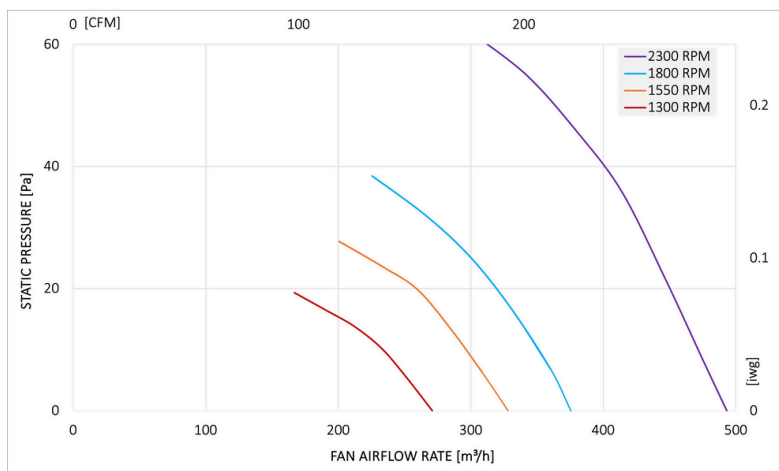
AIRFLOW

230 VAC 50 Hz; STANDARD MOTOR OPTION

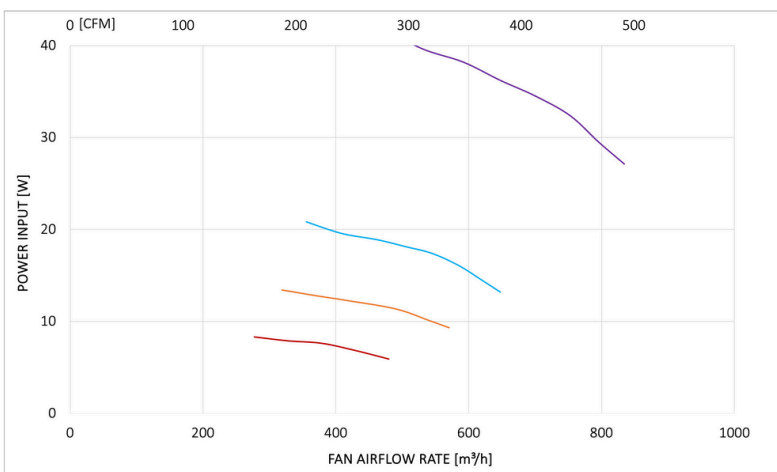
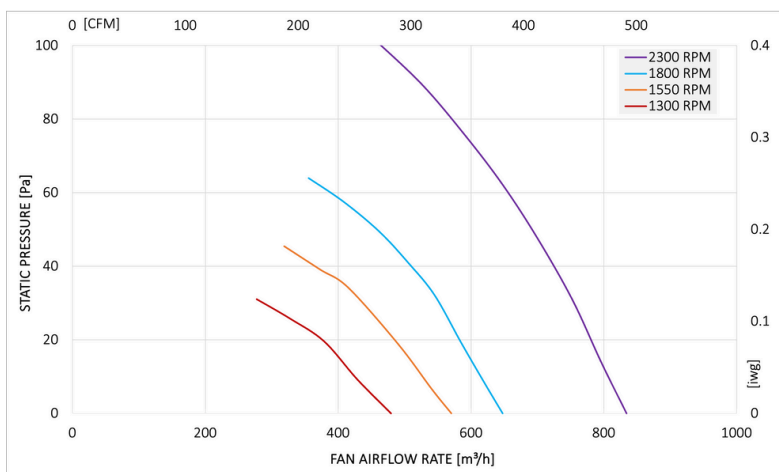
AMCA 210 INSTALLATION FIG. 15; FREE INLET, FREE OUTLET; 1.2 kg/m³ AIR.

LAG170 - LAG200 - LAG230

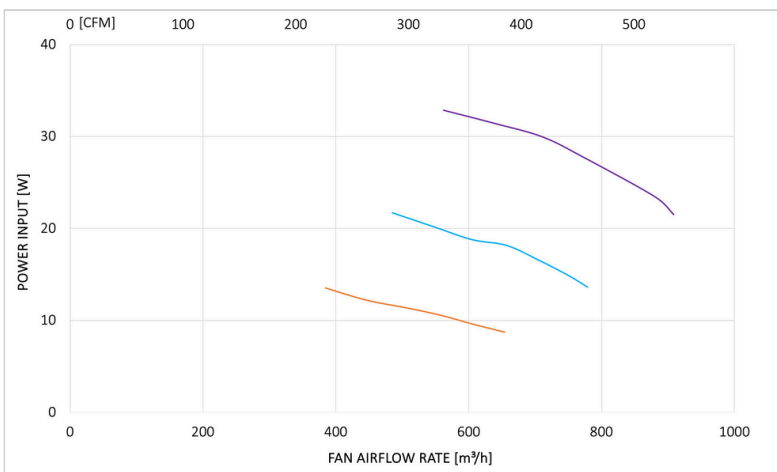
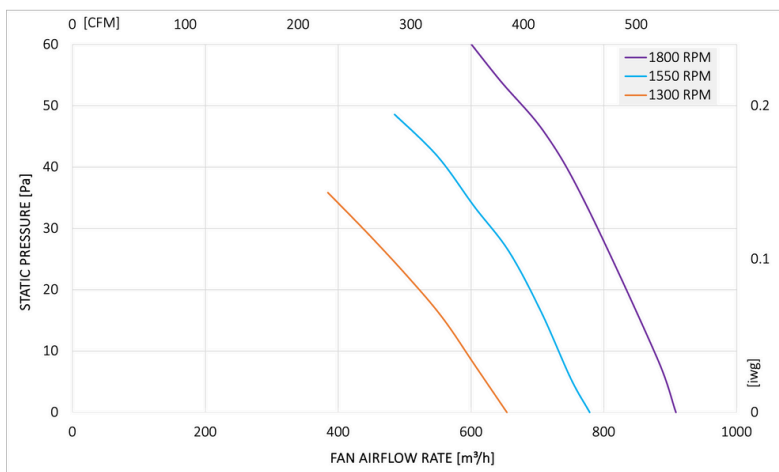
LAG170



LAG200



LAG230

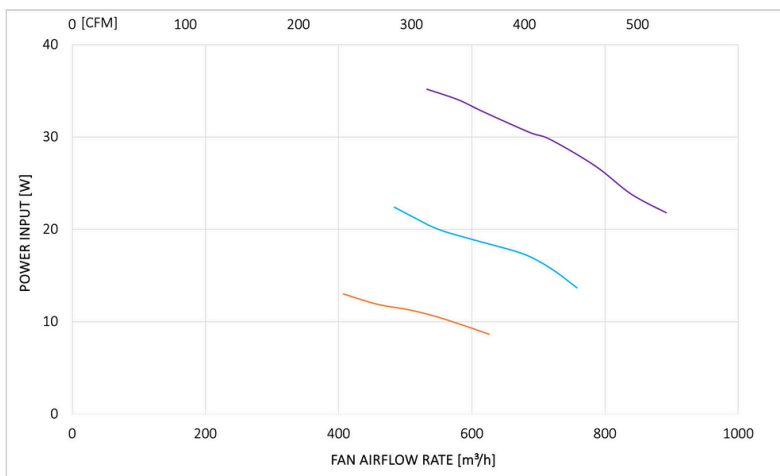
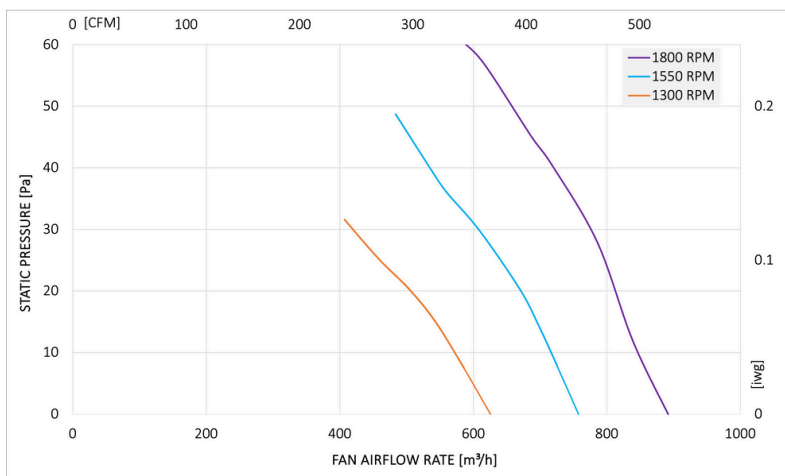


preliminary

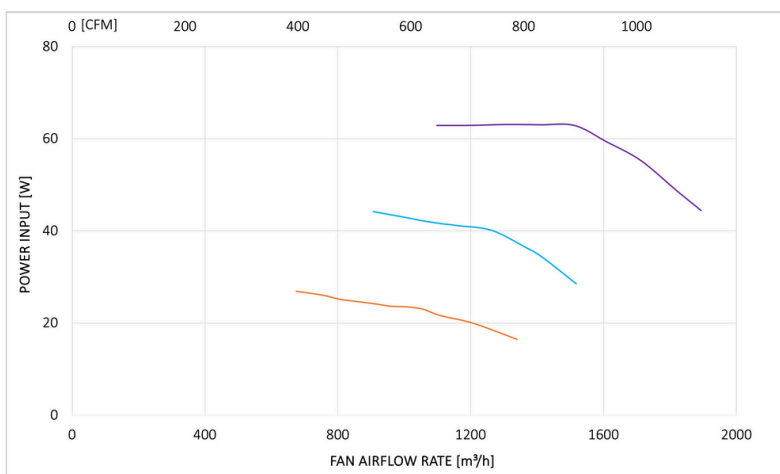
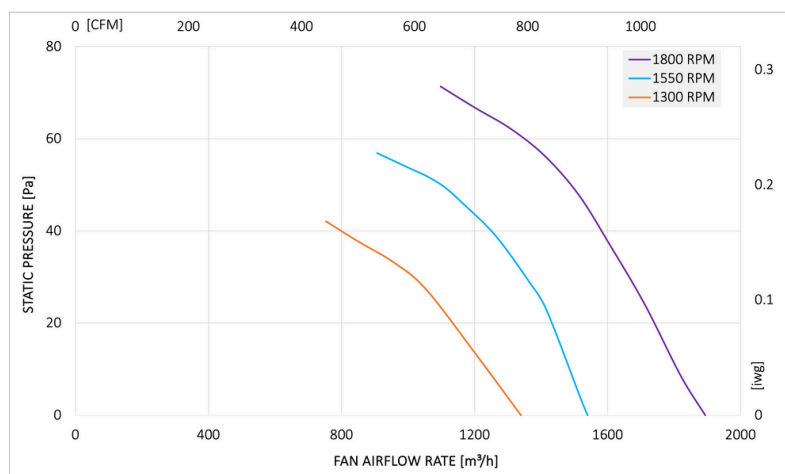




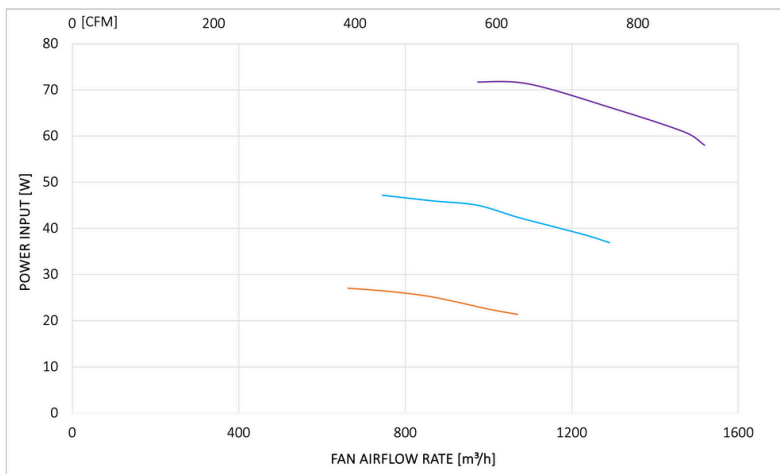
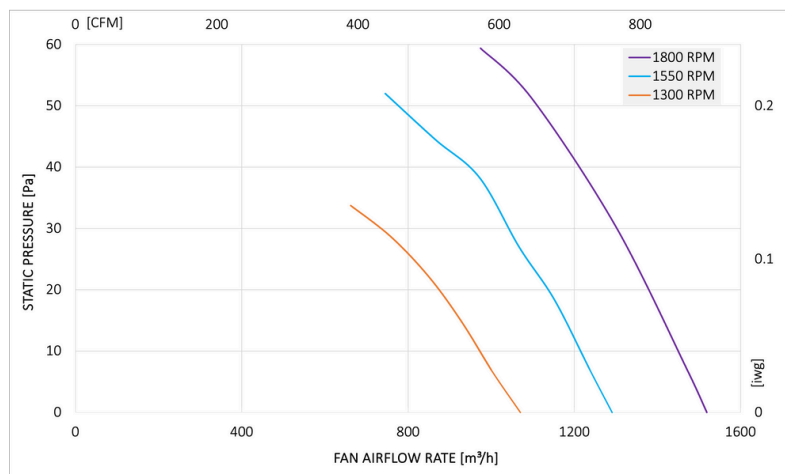
LAG254



LAG300



LAG305



UC 100 SERIES

Dependable and customisable: the 100 Series is tailored for low-maintenance food retail, food service, and scientific applications. Compatible with natural refrigerants and highly efficient, its performance continuously helps OEMs meet new regulations. With a versatile programmable design and deep customisability, it streamlines production processes and simplifies inventory management.

EC MOTORS

TEMPERATURE RANGE	:	-40°C to +50°C
DIRECTION OF ROTATION	:	CW; CCW
TIMED REVERSE	:	Optional; Programmable
INSULATION CLASS	:	Class B
SPEED SELECTION	:	3 Discrete Speeds; Programmable
GROUND PROTECTION	:	Double insulated
SHAFT DIAMETER	:	8mm; 7mm D; drive flange available
BEARINGS	:	Sealed ball bearings
INGRESS PROTECTION	:	IP66
HYDROCARBON COMPATIBILITY	:	EN60335-2-89 ANNEX BB



COMMERCIAL NAME	RATED VOLTAGE	FREQUENCY	PHASE	RATED CURRENT	NOMINAL OUTPUT POWER	RATED SPEED	MOTOR PROTECTION	APPROVALS	WEIGHT	EXTERNAL VIEW	WIRING DIAGRAM
	VAC	Hz		A	W	RPM			kg		
UC 12	120 / 230	50/60	1~	0.29/0.25	18	400 to 2400	Electronically protected (EP)	UL / CE / TÜV / ATEX	0.6	VA	WA
UC+	120	50/60	1~	0.42	25	400 to 2400	Thermally Protected (TP)	UL / CE / TÜV / ATEX	0.6	VA	WA
UC+	230	50/60	1~	0.25	25	400 to 2400	Thermally Protected (TP)	UL / CE / TÜV / ATEX	0.6	VA	WA
UC miniMAX	110-240	50/60	1~	0.4 - 0.23	25	400 to 2000	Electronically protected (EP)	UL / CE / TÜV	0.6	VA	WA
UC MAX	110-240	50/60	1~	0.7 - 0.4	30	400 to 2400	Electronically protected (EP)	UL / CE / TÜV	0.6	VB	WA

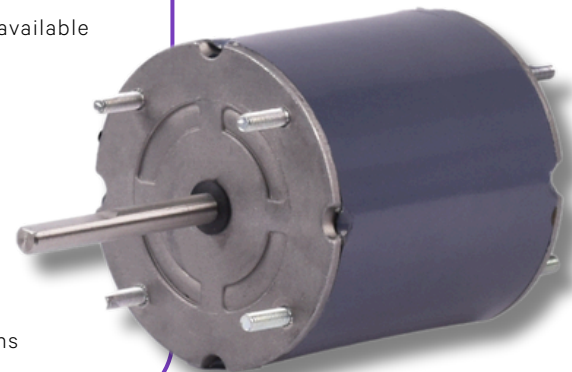


UC 300 SERIES

The market leader for walk-in cooler fans: With a proven record of exceptional reliability, the 300 Series offers energy savings and a robust design. Unada's thermal management system ensures long-lasting operation even in harsh environments.

EC MOTORS

TEMPERATURE RANGE	:	-40°C to +50°C
DIRECTION OF ROTATION	:	CW; CCW
TIMED REVERSE	:	Optional; Programmable
INSULATION CLASS	:	Class B
SPEED SELECTION	:	3 Discrete Speeds; Programmable
GROUND PROTECTION	:	Class I
SHAFT DIAMETER	:	8mm; 7mm D; drive flange and twin shafts available
BEARINGS	:	608 sealed ball bearings
INGRESS PROTECTION	:	IP55
MOTOR PROTECTION	:	Electronically protected (EP)
THERMAL MANAGEMENT	:	Torque compensation in overload conditions



COMMERCIAL NAME	RATED VOLTAGE	FREQUENCY	PHASE	RATED CURRENT	NOMINAL OUTPUT POWER	RATED SPEED	APPROVALS	WEIGHT	EXTERNAL VIEW	WIRING DIAGRAM
	VAC	Hz		A	HP	RPM		kg		
UC 39	120-240	50/60	1~	0.95/ 0.5	1/20	400 to 1800	UL	1.1	VC	WB
UC 1	120	50/60	1~	0.9	1/15	200 to 2400	UL	1.3	VD	WB
UC 1	208-240	50/60	1~	0.6	1/15	200 to 2400	UL	1.3	VD	WB



UC 400 SERIES

The UC 400 Series marks a major advancement in both innovation and motor capability, offering increased size and power to meet a broader range of applications. Developed through years of close collaboration with industry partners, this series incorporates the most sought-after qualities in a reliable, high-efficiency EC motor. Unada's largest and most adaptable motor family, the UC 400 is designed to perform across an exceptionally wide spectrum of refrigeration and HVAC systems. No matter the complexity of the application, it delivers the flexibility, dependability, and performance that define the UC range standard.

EC MOTORS

TEMPERATURE RANGE	:	-40°C to +50°C
DIRECTION OF ROTATION	:	CW; CCW
TIMED REVERSE	:	Optional; Programmable
INSULATION CLASS	:	Class B
SPEED SELECTION	:	3 Discrete Speeds; Programmable, PWM
GROUND PROTECTION	:	Class I
SHAFT DIAMETER	:	8mm; 7mm D; drive flange available
BEARINGS	:	608 sealed ball bearings
INGRESS PROTECTION	:	IP66
HYDROCARBON COMPATIBILITY	:	EN60335-2-89 ANNEX BB
MOTOR PROTECTION	:	Electronically protected (EP)
THERMAL MANAGEMENT	:	Torque compensation in overload conditions



COMMERCIAL NAME	RATED VOLTAGE	FREQUENCY	PHASE	NOMINAL OUTPUT POWER	RATED SPEED	APPROVALS	EXTERNAL VIEW	WIRING DIAGRAM
	VAC	Hz		HP	RPM			
UC 401	120 / 240	50/60	1~	1/15	400 to 2000	UL / ATEX	VE	WC
UC 405	120 / 240	50/60	1~	1/10	400 to 2000	UL / ATEX	VE	WC





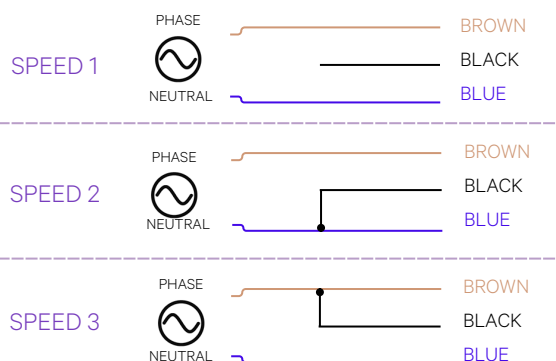
Warning:

Unconnected control (black) wires must be properly isolated from each other and from all power lines. Do not earth unconnected control wires. Control wires operate at the same voltage as the power supply.

2 WIRE

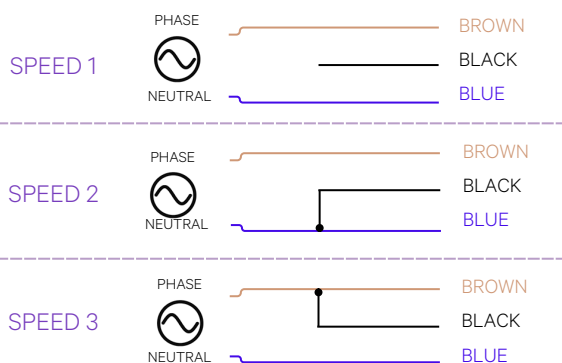


3 WIRE

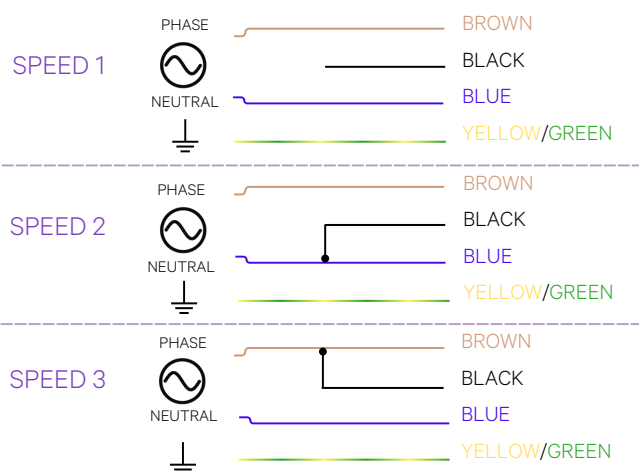


WA

3 WIRE



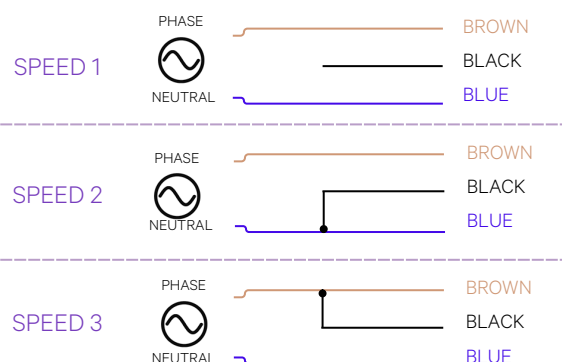
4 WIRE



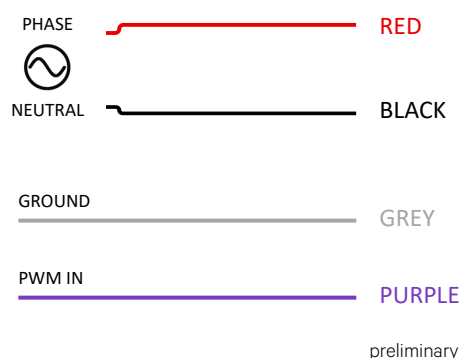
WB

*Installer responsible for connecting motor to earth

3 WIRE



4 WIRE



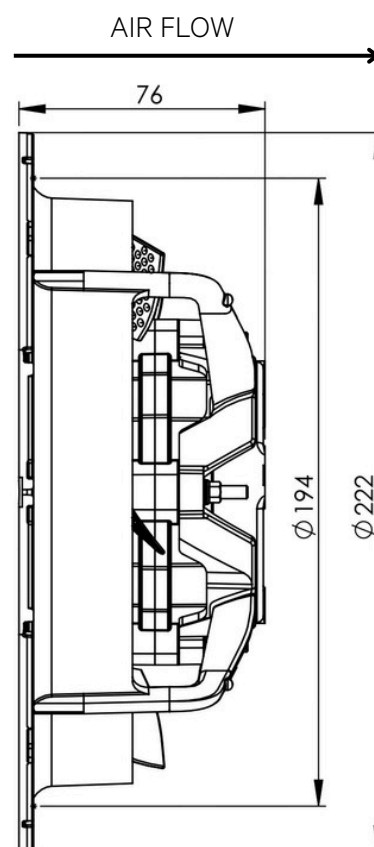
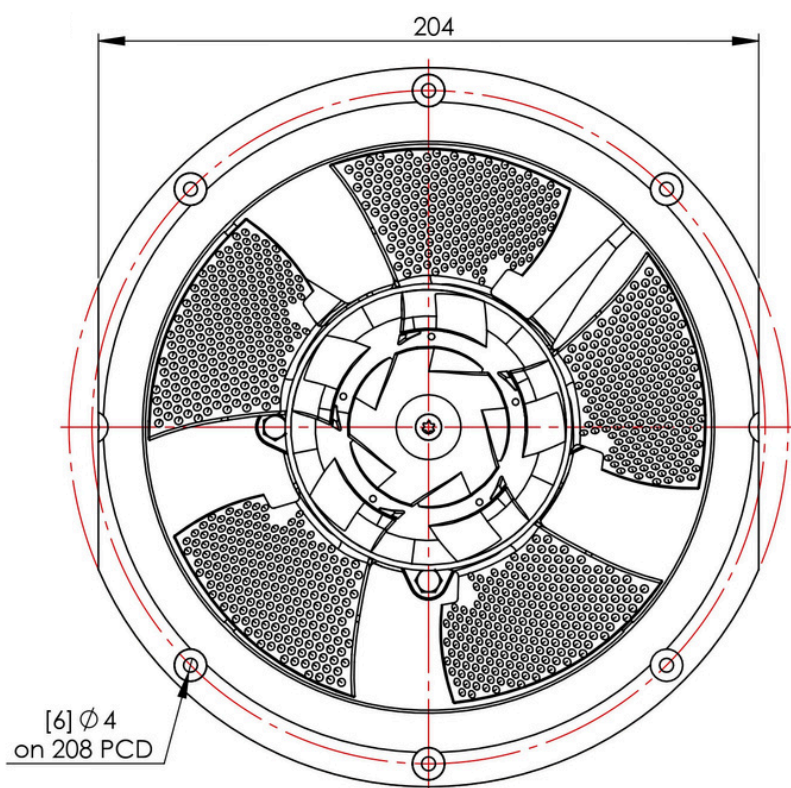
WC

*Installer responsible for connecting motor to earth

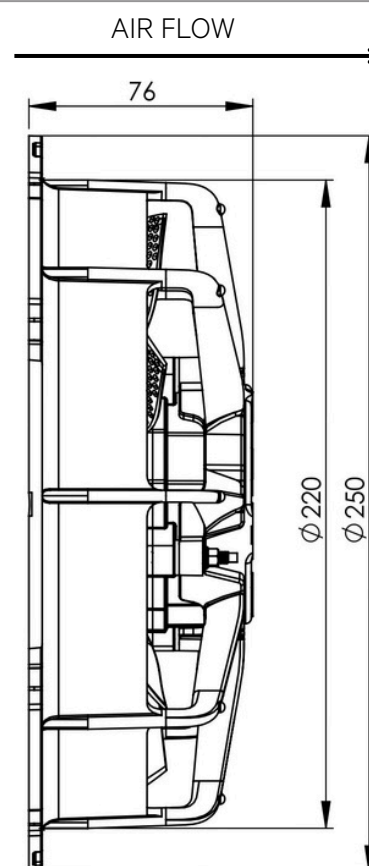
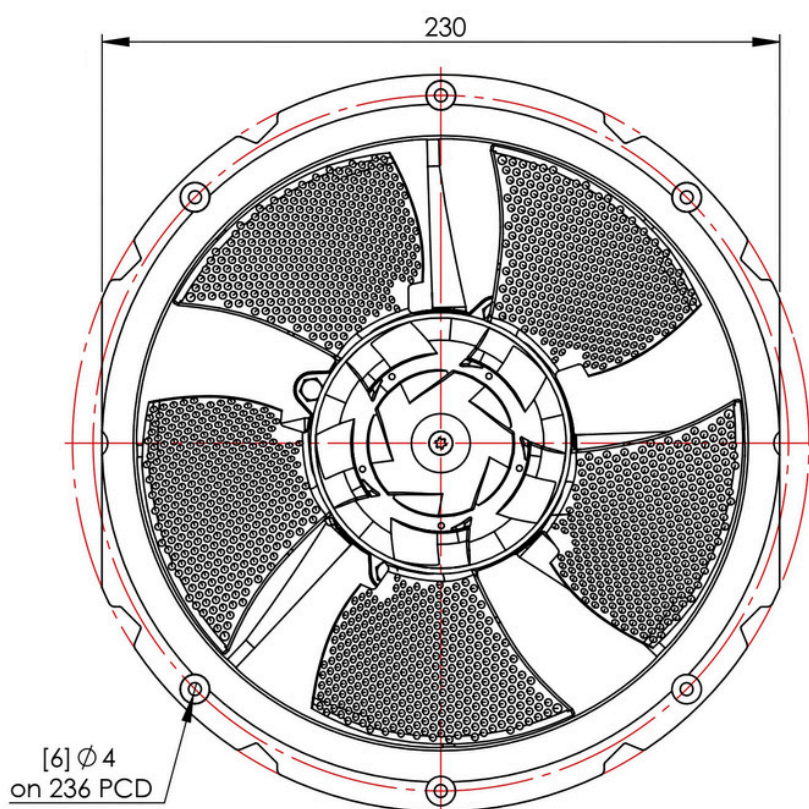




LAG170

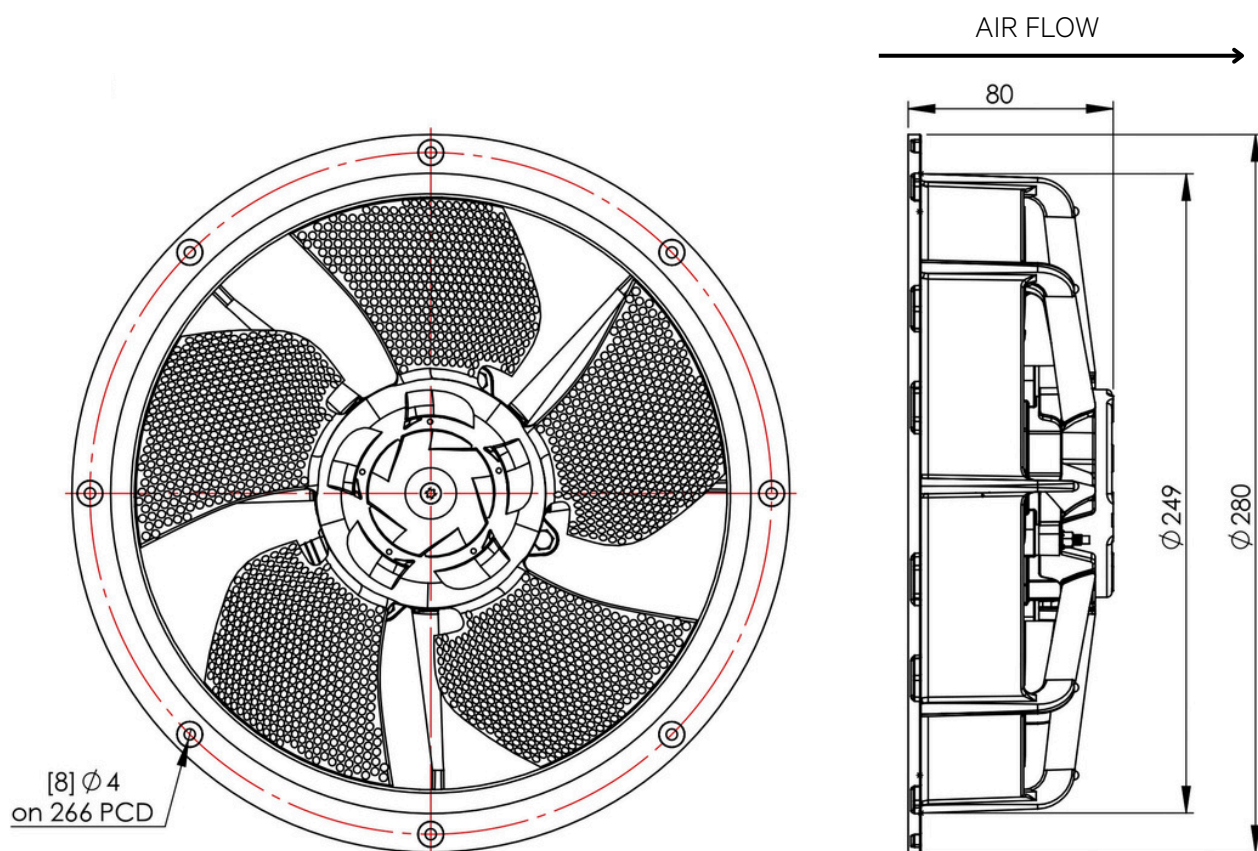


LAG200

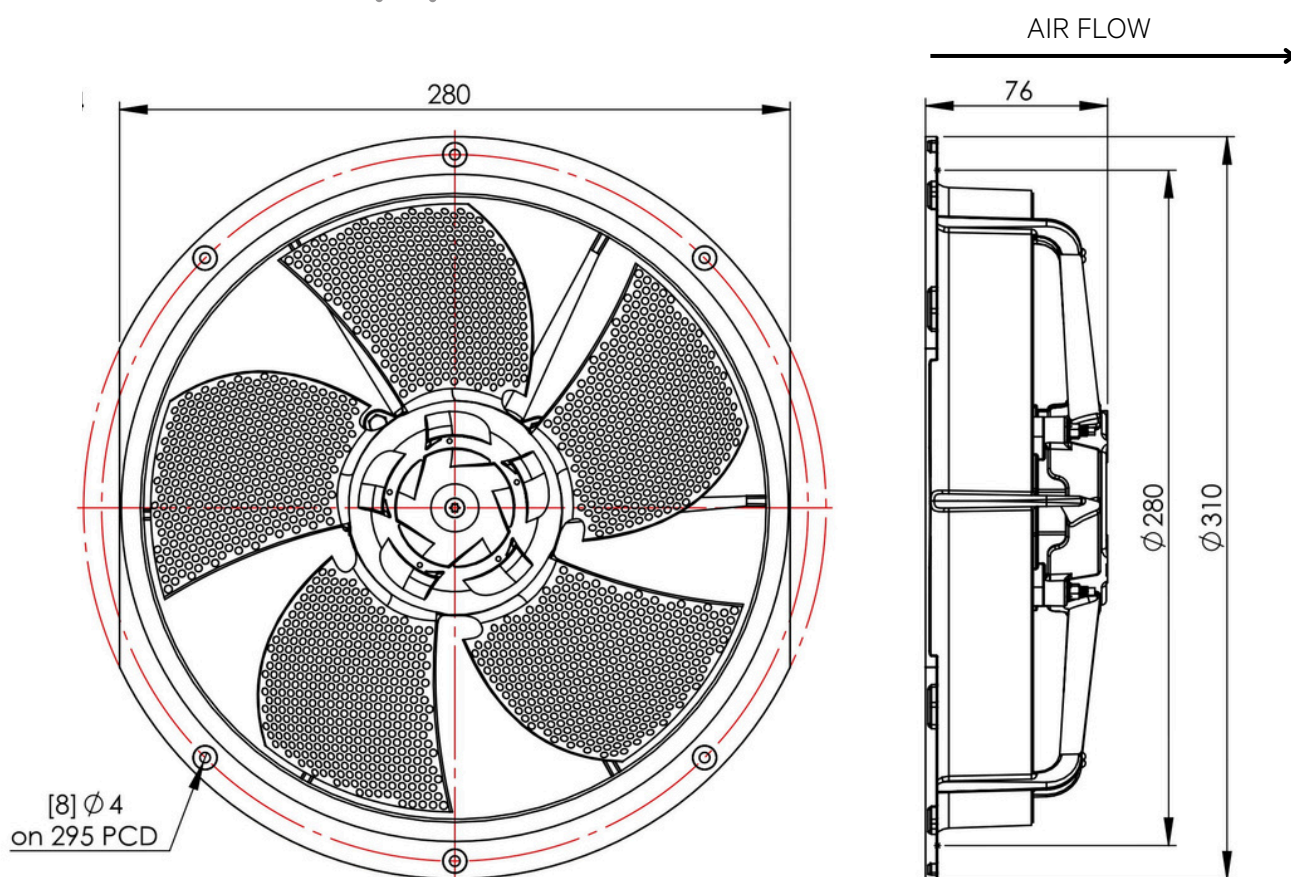




LAG230

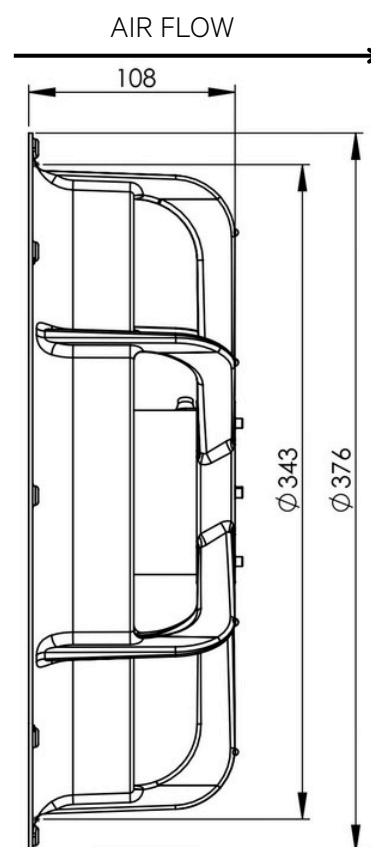
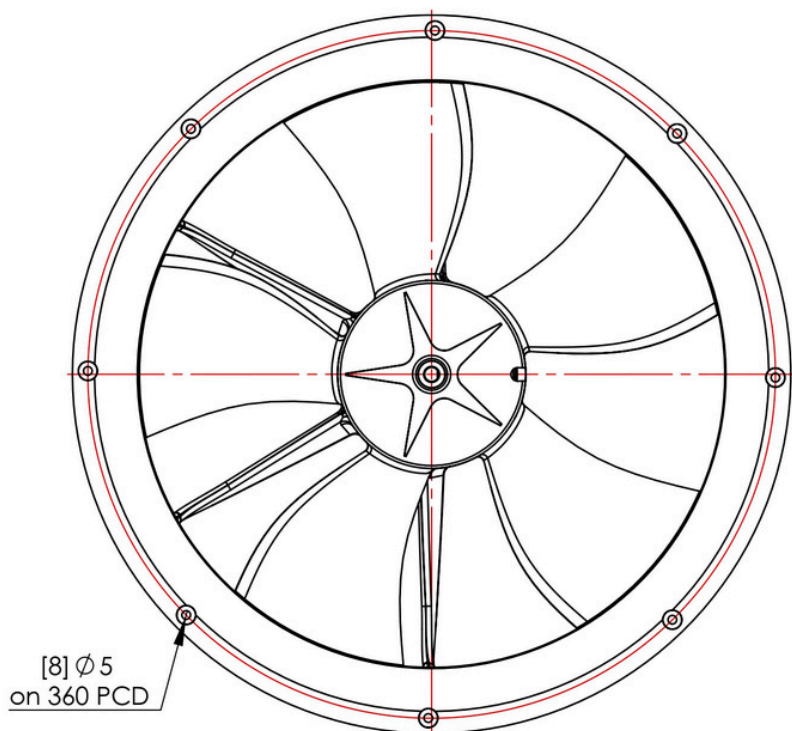


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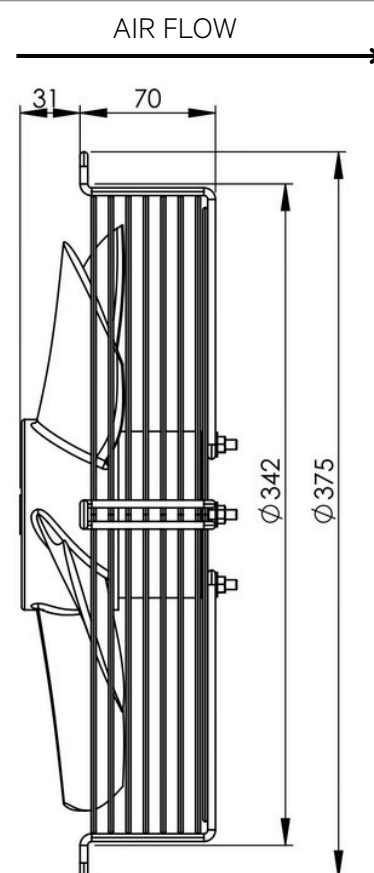
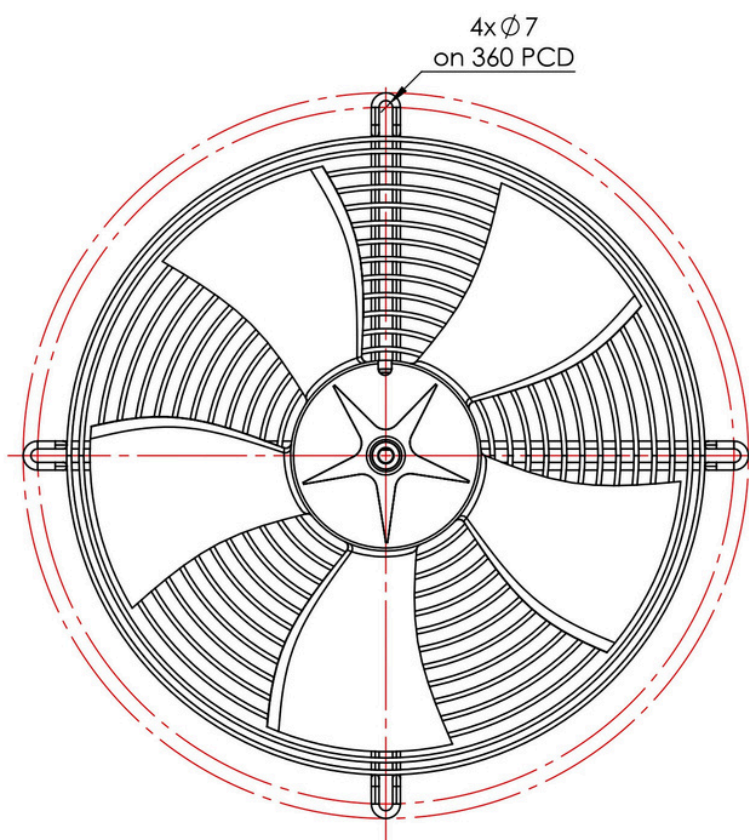




LAG300

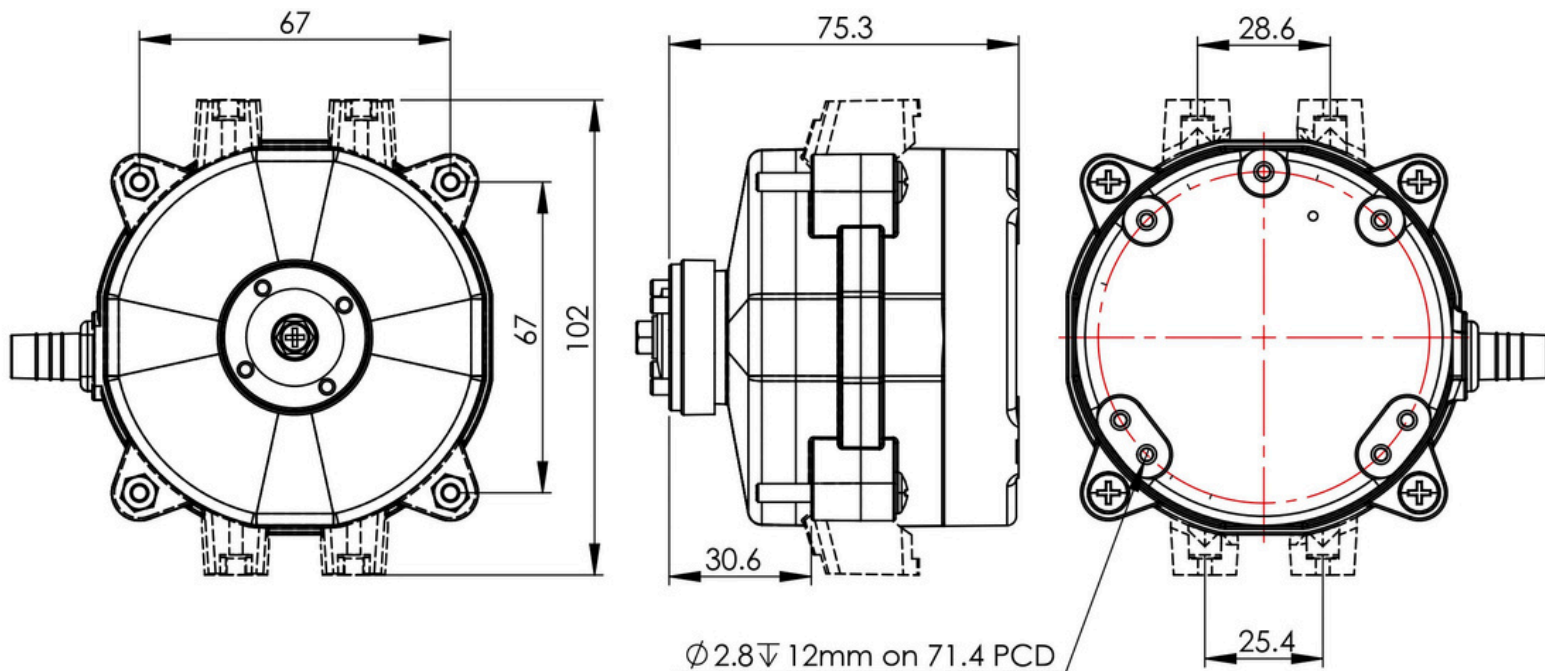


LAG305

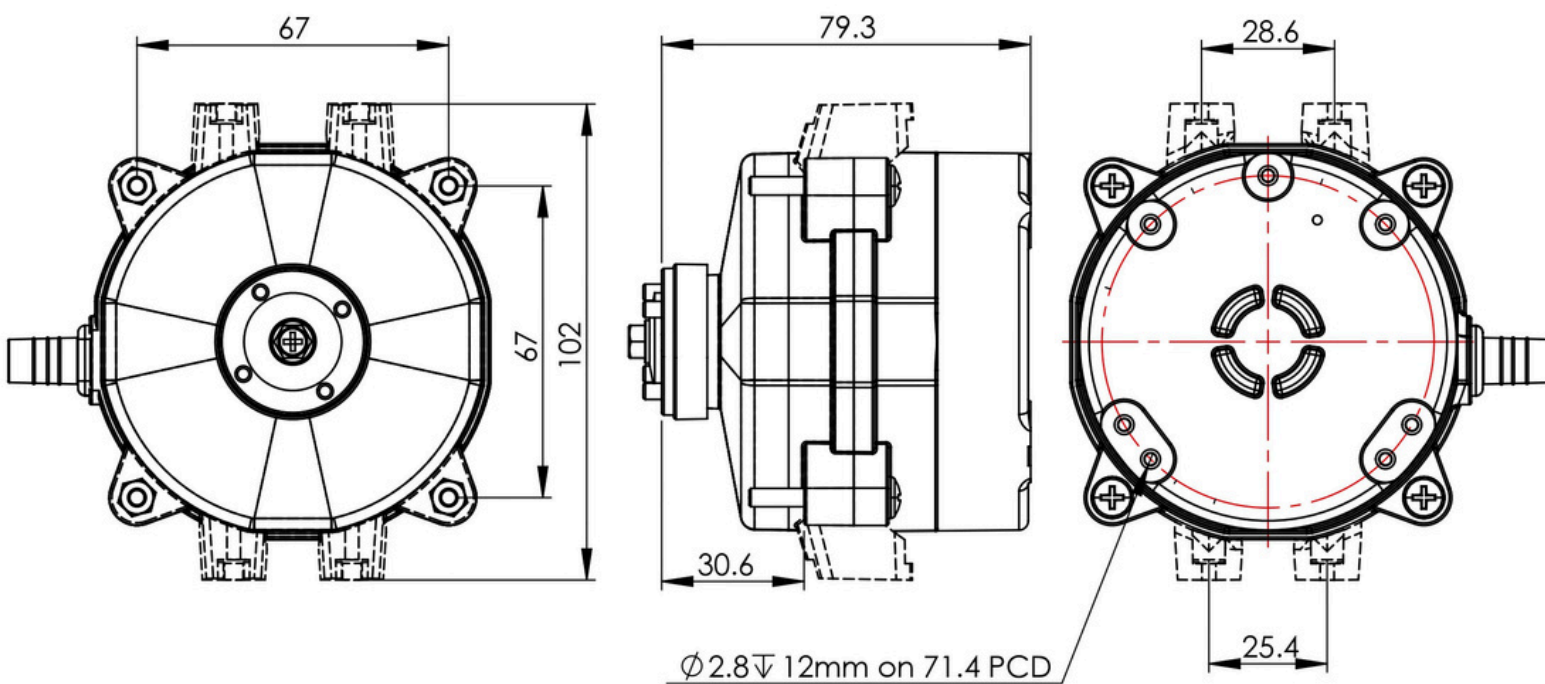




VA



VB

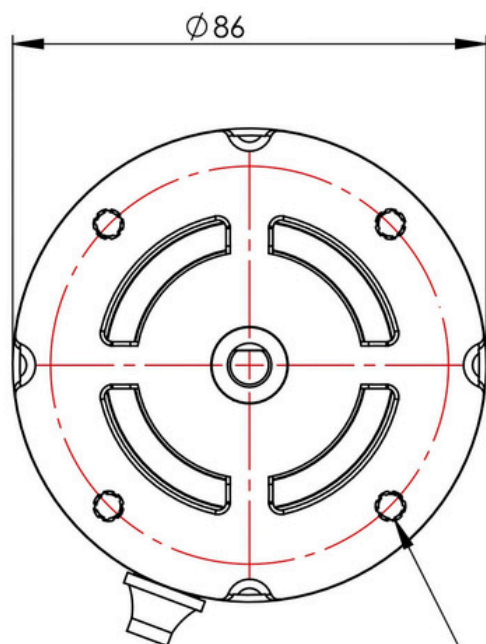




EXTERNAL VIEWS

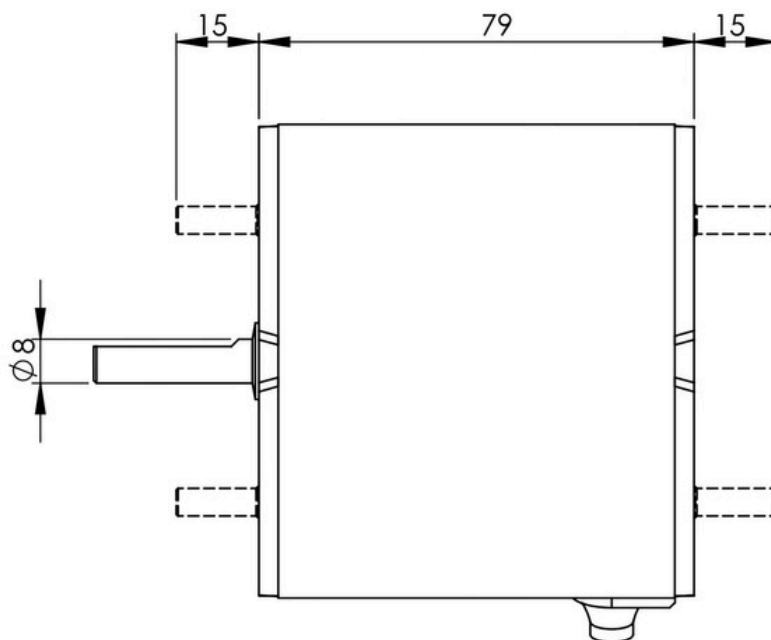
VC - VD

VC

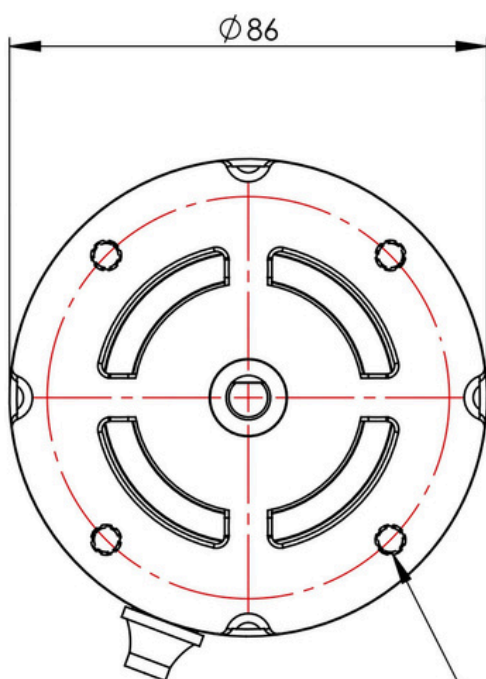


#10-32 Threads
on 72.4 PCD

*Three stud options available

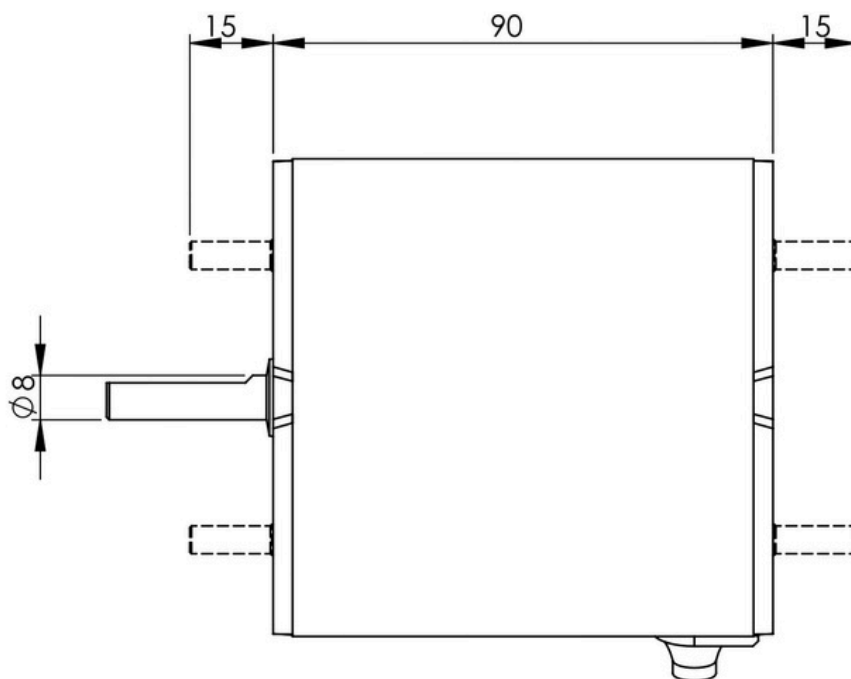


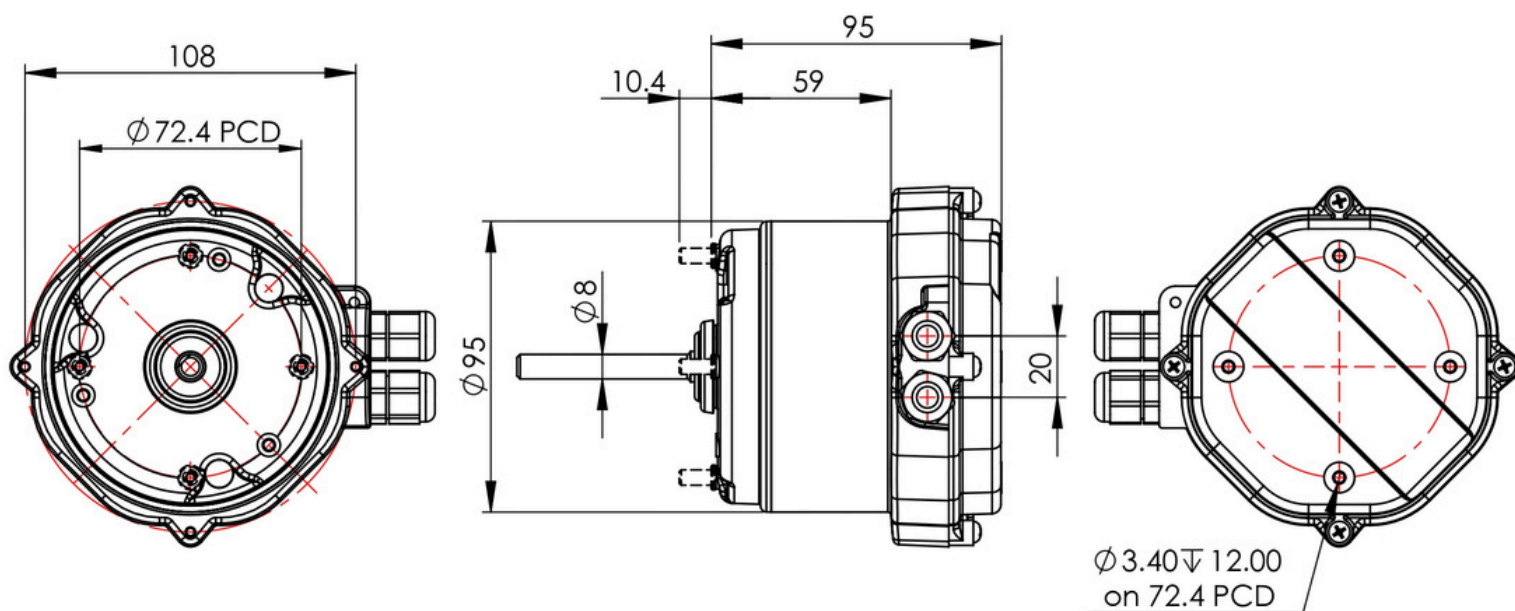
VD



#10-32 Threads
on 72.4 PCD

*Three stud options available





*Three stud options available



UNADA

UNADAMOTOR.COM



CONTACT OUR TEAM:



Headquarters - Thailand

Unada Co., Ltd. 9/3 Moo 14, Kanjanaphisak Road,
Bangmuang, Bangyai, Nonthaburi 11140, Thailand.



: sales@unadamotor.com



North America - Europe

Jon Cole



: jon@unadamotor.com



Latin America

Thomas Bauer



: thomas@unadamotor.com



Asia, Oceania and Africa

Eduardo Strle



: eduardo@unada.co.th