

**ENCLOSURE THERMAL
MANAGEMENT**

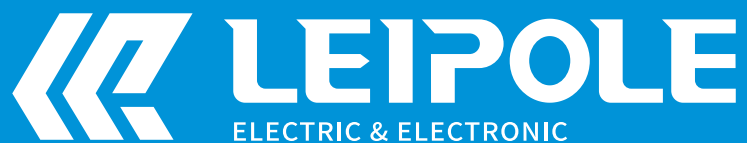
BUSBAR SYSTEM

CONTROL TRANSFORMER

ENCLOSURE ACCESSORIES



Elevating Enclosure Performance



www.leipole.net

LEIPOLE OVERVIEW

Leipole Electric is a global provider of innovative electrical enclosure solutions, specializing in thermal management, control transformers, and busbar systems.

OUR VISION & MISSION

Our vision is to elevate enclosure performance worldwide, and our mission is to deliver reliable, high-quality solutions for industrial efficiency and safety.

INDUSTRY SOLUTIONS

Leipole offers tailored solutions for industries such as manufacturing, automation, and power distribution, ensuring optimized performance and safety.

GLOBAL PRESENCE

With a strong global footprint, Leipole serves customers in Asia, Europe, and the Americas through a robust distribution network.

CORE EXPERTISE

Leipole excels in thermal management, control transformers, busbar systems, and enclosure accessories, backed by continuous innovation and R&D.

PRODUCT DETAILS

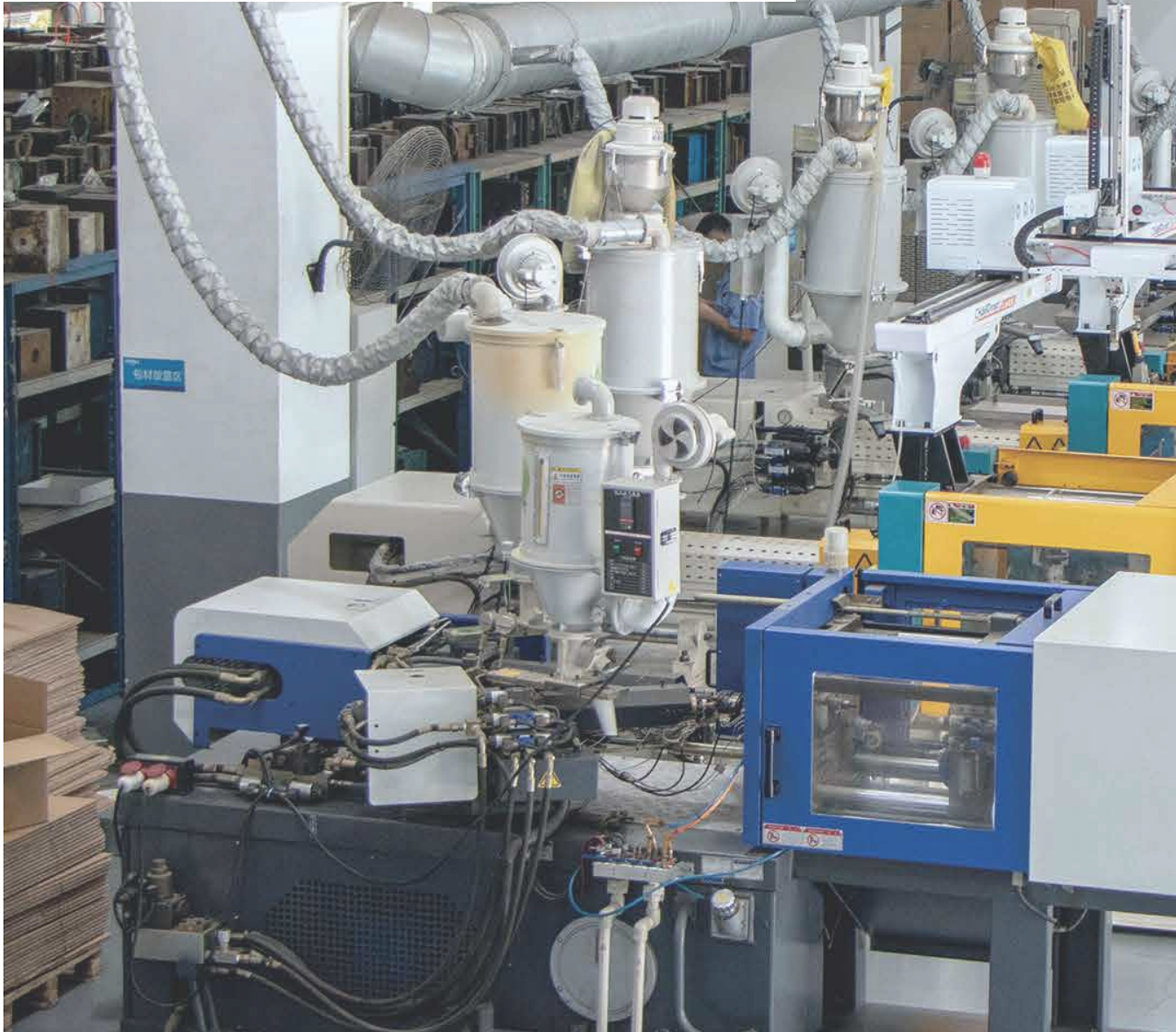
Our comprehensive product line includes cooling fans, transformers, and busbar systems, designed to meet international standards for industrial use.



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LEIPOLE OVERVIEW



ABOUT US

Leipole Electric, headquartered in Singapore, is a premier provider of comprehensive enclosure solutions, offering a wide range of accessories that enhance the performance, safety, and efficiency of electrical systems.



Guided by our slogan, "Elevating Enclosure Performance," we are committed to delivering innovative products that meet the evolving demands of industries worldwide.



OUR VISION

"To elevate enclosure performance globally with innovative, reliable solutions."

VISION

To be the global leader in enclosure solutions, setting new standards in performance, quality, and innovation while driving the success of our clients through exceptional products and services.

MISSION

To elevate the performance of electrical enclosures by providing innovative, reliable, and high-quality accessories that meet the diverse needs of industries globally.

VALUE

Innovation

We drive progress through continuous innovation, developing advanced solutions that meet the evolving needs of modern industries.

Quality

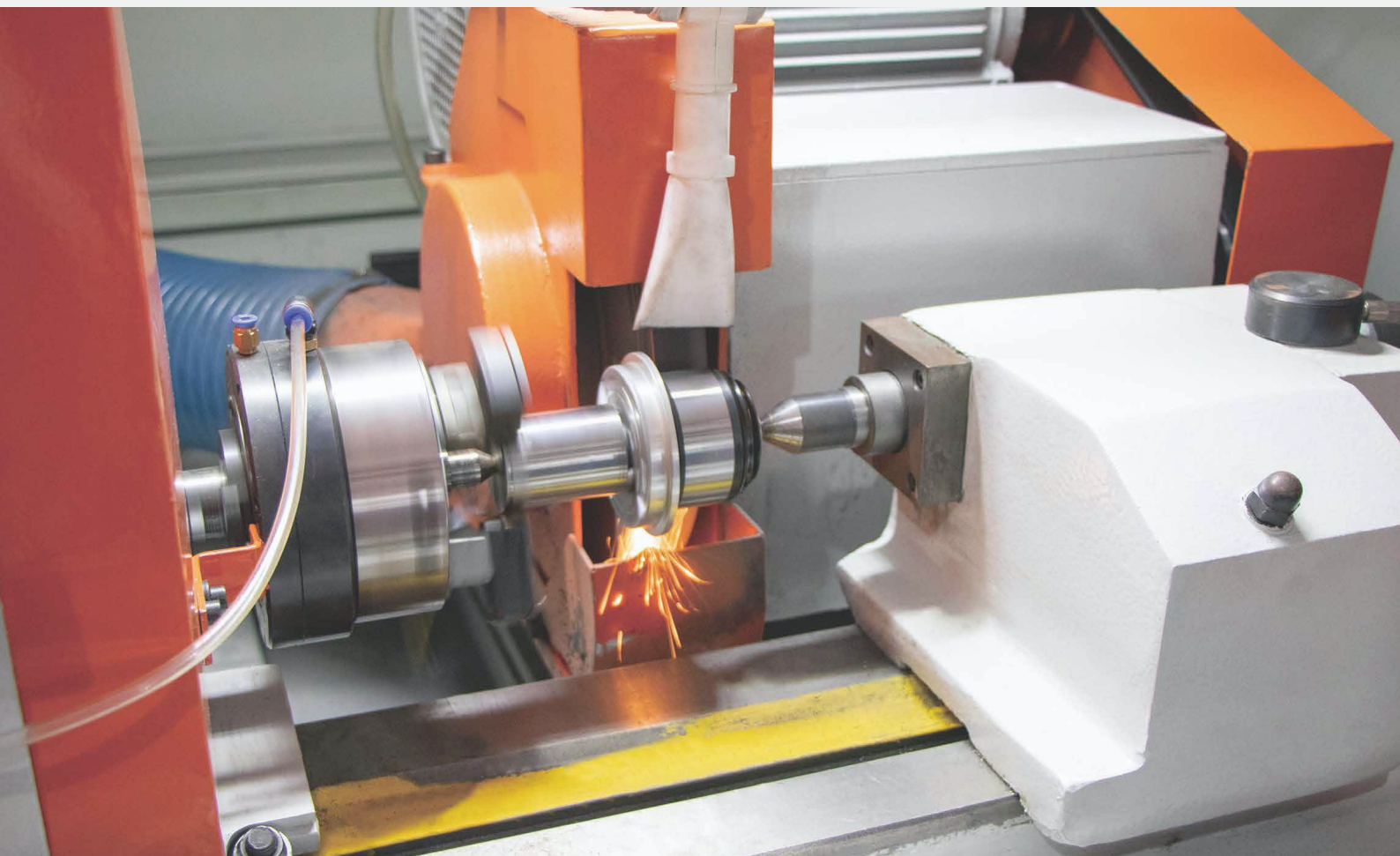
We are committed to delivering products of the highest quality, ensuring reliability, safety, and performance in every solution we provide.

Customer Focus

Our customers are at the heart of everything we do; we strive to exceed their expectations with tailored solutions and exceptional support.

Integrity

We uphold the highest standards of honesty and transparency, fostering trust and long-term relationships with our clients and partners.



INDUSTRY SOLUTIONS

Leipole provides comprehensive solutions for a wide range of industries, ensuring optimal performance and protection for electrical enclosures:

Manufacturing

Leipole's thermal management systems and control transformers improve operational efficiency and reliability, minimizing downtime in high-demand environments.



GLOBAL PRESENCE

Leipole Electric's extensive global network of manufacturing and distribution partners ensures that our products are available to customers worldwide. Our strategic presence in key markets enables us to deliver tailored solutions, backed by responsive support and localized expertise.





EV Charger

Our enclosure cooling systems help maintain the efficiency and safety of EV charging stations by preventing overheating in high-demand environments.



Power Distribution

Leipole's solutions ensure stable and efficient power distribution, with products like busbar systems and cooling fans designed to handle high electrical loads in energy-intensive environments.



Renewable Energy

Our products, such as enclosure cooling solutions and protective accessories, are optimized for renewable energy systems, ensuring performance and longevity in solar and wind applications.



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CORE EXPERTISE

Leipole Electric specializes in the design, manufacturing, and supply of high-quality enclosure accessories

Thermal Management

Leipole specializes in advanced thermal solutions for electrical enclosures, including cooling fans, air conditioners, and heaters. These products are designed to maintain optimal temperatures, prevent overheating, and ensure the reliable performance of sensitive components.

INNOVATIVE R&D

Leipole's R&D team continuously innovates to enhance product functionality, safety, and compliance with international standards, ensuring that our solutions meet the evolving demands of industries like automation, renewable energy, and EV charging.



"In-house UL-accredited laboratory"



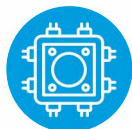
Control Transformers

Leipole's control transformers provide stable voltage regulation and high efficiency for diverse industrial applications



Busbar Systems

Leipole's busbar systems ensure reliable performance, reduced wiring complexity, and enhanced safety for diverse applications.



Enclosure Accessories

Leipole offers a comprehensive selection of enclosure accessories, to ensure the protection and efficiency of electrical equipment.





FAN FILTER

FKL99



The FKL99 series from Leipole offers several significant **improvements for enclosure thermal management.**

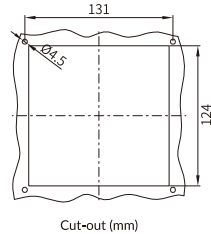
- With more airflow options tailored to different sizes, customers can choose the best fit for their specific needs.
- The use of a pleated filter mat as the media further optimizes performance by minimizing airflow resistance, resulting in more efficient cooling.

This new series underscores Leipole's commitment to offering advanced and customized thermal solutions that outperform the competition.

FKL9922

Color RAL7035 IP rating IP55

Max airflow: **195m³/h**
Dimensions(WxH): 149x150mm

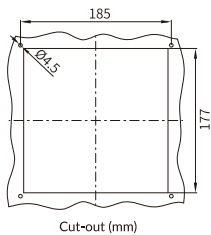


Model	FKL9922.230	FKL9922.115	FKL9922.024
Order number	2028.001	2028.002	2028.003
Fan model	F2E-120S-230 	F2E-120S-115 	F2E-120B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	145/160m³/h	195m³/h
	IP55	72/75m³/h	80m³/h
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.12/0.10	0.34/0.28	0.4
Power (W)	20/15	25/21	9.6
Noise level (dB)	50/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL9922.300 (2028.004)		
Media	G4 High-efficiency filtration media, MATL9922 (8011.254)		

FKL9923-150

Color RAL7035 IP rating IP55

Max airflow: **370m³/h**
Dimensions(WxH): 204x204mm

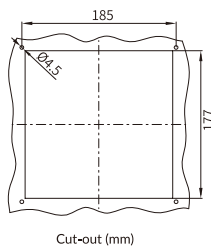


Model	FKL9923-150.230	FKL9923-150.115
Order number	2028.005	2028.006
Fan model	F2E-150B-230 	F2E-150B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	370/325m³/h
	IP55	220/200m³/h
Motor type	Shaded-Pole Motor	
Rated current (A)	0.29/0.27	0.61/0.54
Power (W)	43/40	44/41
Noise level (dB)	58	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL9923.300 (2023.009)	
Media	G4 High-efficiency filtration media, MATL9923(8011.255)	

FKL9923-162

Color RAL7035 IP rating IP55

Max airflow: **380m³/h**
Dimensions(WxH): 204x204mm

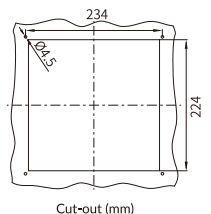


Model	FKL9923-162.230	FKL9923-162.115
Order number	2028.007	2028.008
Fan model	F2E-162B-230 	F2E-162B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	325/380m³/h
	IP55	220/225m³/h
Motor type	External Rotor Motor	
Rated current (A)	0.23/0.20	0.53/0.41
Power (W)	37/36	36/34
Noise level (dB)	48/53	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL9923.300 (2023.009)	
Media	G4 High-efficiency filtration media, MATL9923(8011.255)	

FKL9925

Color RAL7035 IP rating IP55

Max airflow: **380m³/h**
Dimensions(WxH): 255x255mm



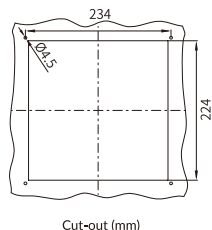
Model	FKL9925.230	FKL9925.115
Order number	2028.010	2028.011
Fan model	F2E-21580B-230 	F2E-21580B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	325/380m³/h
	IP55	220/225m³/h
Motor type	External Rotor Motor	
Rated current (A)	0.23/0.20	0.53/0.41
Power (W)	37/36	36/34
Noise level (dB)	48/53	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL9925.300 (2023.013)	
Media	G4 High-efficiency filtration media, MATL9925(8011.256)	

FKL9925-D

Max airflow: **900m³/h**
Dimensions(WxH): 255x255mm



Color RAL7035 IP rating IP55



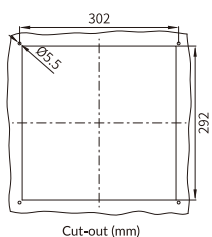
Model	FKL9925.230-D
Order number	2028.012
Fan model	F2E-20772B-230-A 
Rated voltage (V / Hz)	230/50/60
Air flow	IP20 800/900m ³ /h
	IP55 430/450m ³ /h
Motor type	External Rotor Motor
Rated current (A)	0.35/0.43
Power (W)	75/98
Noise level (dB)	63
Operating temperature range	-10°C to +55°C
Exit filter	FKL9925.300 (2023.013)
Media	G4 High-efficiency filtration media, MATL9925(8011.256)

FKL9926-260

Max airflow: **1050m³/h**
Dimensions(WxH): 323.5x323.5mm



Color RAL7035 IP rating IP55



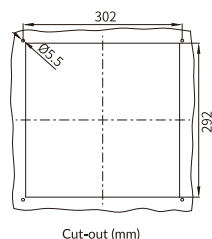
Model	FKL9926-260.230	FKL9926-260.115
Order number	2028.014	2028.015
Fan model	F2E-260B-230 	F2E-260B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20 925/1050m ³ /h	
	IP55 450/500m ³ /h	
Motor type	External Rotor Asynchronous Motor	
Rated current (A)	0.32/0.30	0.58/0.60
Power (W)	64/71	67/74
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL9926.300 (2023.019)	
Media	G4 High-efficiency filtration media, MATL9926(8011.257)	

FKL9926

Max airflow: **1050m³/h**
Dimensions(WxH): 323.5x323.5mm



Color RAL7035 IP rating IP55



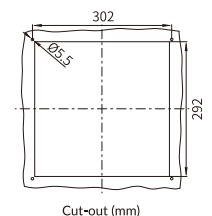
Model	FKL9926.230	FKL9926.115
Order number	2028.016	2028.017
Fan model	F2E-24097B-230 	F2E-24097B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20 1050m ³ /h	
	IP55 530/586m ³ /h	
Motor type	External Rotor Asynchronous Motor	
Rated current (A)	0.37/0.39	0.66/0.70
Power (W)	70/87	73/89
Noise level (dB)	63	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL9926.300 (2023.019)	
Media	G4 High-efficiency filtration media, MATL9926(8011.257)	

FKL9926-D

Max airflow: **2670m³/h**
Dimensions(WxH): 323.5x323.5mm



Color RAL7035 IP rating IP55



Model	FKL9926.230-D
Order number	2028.018
Fan model	F2E-280107B-230 
Rated voltage (V / Hz)	230/50/60
Air flow	IP20 2670m ³ /h
	IP55 970/1000m ³ /h
Motor type	External Rotor Motor
Rated current (A)	0.43/0.60
Power (W)	95/135
Noise level (dB)	63
Operating temperature range	-10°C to +55°C
Exit filter	FKL9925.300 (2023.013)
Media	G4 High-efficiency filtration media, MATL9926(8011.257)



FAN FILTER

FK99



Advanced Fan and Filter Solution

The FK99 series is a popular choice for enclosure cooling, featuring a user-friendly design with a front cover that easily opens for quick filter mat replacement. This straightforward maintenance process is particularly valuable when the filter mat becomes blocked by dust.

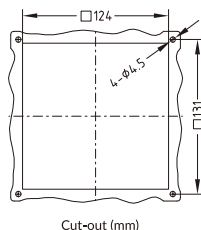
Offering a range of airflow options to suit various enclosure sizes, the FK99 ensures effective cooling without compromising on ease of use. Designed for environments where dust is a concern, this model provides reliable performance with a standard filter mat, making it an excellent choice for everyday thermal management needs.

FK9922

Max airflow: **195m³/h**
Dimensions(WxH): 148.5x148.5mm



Color RAL7035 IP rating IP54



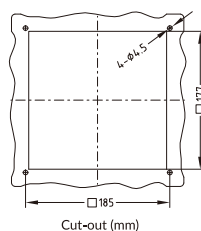
Model	FK9922.230	FK9922.115	FK9922.024
Order number	2023.001	2023.002	2023.003
Fan model	F2E-120S-230 	F2E-120S-115 	F2E-120B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	145/160m ³ /h	195m ³ /h
	IP54	72/75m ³ /h	80m ³ /h
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.12/0.10	0.34/0.28	0.4
Power (W)	20/15	25/21	9.6
Noise level (dB)	50/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FK9922.300 (2023.010)		

FK9923

Max airflow: **195m³/h**
Dimensions(WxH): 204x204mm



Color RAL7035 IP rating IP54



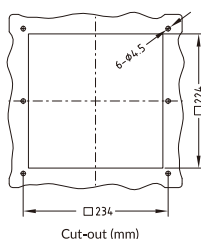
Model	FK9923.230	FK9923.115	FK9923.024
Order number	2023.011	2023.012	2023.013
Fan model	F2E-120S-230 	F2E-120S-115 	F2E-120B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	145/160m ³ /h	195m ³ /h
	IP54	100/103m ³ /h	80m ³ /h
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.12/0.10	0.34/0.28	0.4
Power (W)	20/15	25/21	9.6
Noise level (dB)	50/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FK9923.300 (2023.020)		

FK9925

Max airflow: **370m³/h**
Dimensions(WxH): 255x255mm



Color RAL7035 IP rating IP54



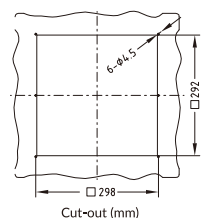
Model	FK9925.230	FK9925.115	FK9925.024
Order number	2023.061	2023.062	2023.023
Fan model	F2E-150S-230	F2E-150S-115	F2E-150S-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	370/325m ³ /h	
	IP54	230/200m ³ /h	
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.23/0.20	0.53/0.41	0.46
Power (W)	37/36	36/34	14
Noise level (dB)	48/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FK9925.300 (2023.030)		

FK9926

Max airflow: **1050m³/h**
Dimensions(WxH): 320x320mm



Color RAL7035 IP rating IP54



Model	FK9926.230	FK9926.115
Order number	2023.031	2023.032
Fan model	F2E-260B-230 	F2E-260B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	925/1050m ³ /h
	IP54	450/500m ³ /h
Motor type	Electric Capacitance	
Rated current (A)	0.32/0.30	0.58/0.60
Power (W)	64/71	67/74
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FK9926.300 (2023.040)	

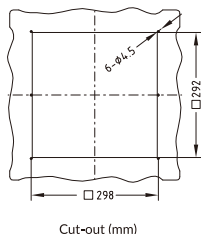
FK9926-D

Max airflow: **1800m³/h**
 Dimensions(WxH): 320x320mm



Color
RAL7035

IP rating
IP54



Model	FK9926.230-D	FK9926.115-D
Order number	2023.041	2023.042
Fan model	F2E-320B-230 	F2E-320B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	1800m ³ /h
	IP54	1044m ³ /h
Motor type	Electric Capacitance	
Rated current (A)	0.50/0.70	1.00/1.20
Power (W)	119/153	105/125
Noise level (dB)	68/70	
Operating temperature range	-10°C to +55°C	
Exit filter	FK9926.300 (2023.040)	



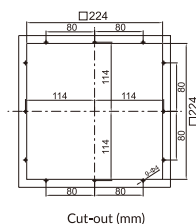
FKS5625-162

Max airflow: **380m³/h**
 Dimensions(WxH): 250x250mm



Color
RAL7035

IP rating
IP54



Model	FKS5625-162.230	FKS5625-162.115	FKS5625-162.024
Material	ABS-FR, 304 Stainless steel		
Order number	2026.002	2026.004	2026.003
Fan model	F2E-162B-230 	F2E-162B-115 	F2E-162B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	325/380m ³ /h	
	IP54	200/235m ³ /h	
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.23/0.20	0.53/0.41	0.46
Power (W)	37/36	36/34	11.04
Noise level (dB)	48/53		
Operating temperature range	-10°C to +55°C		
Exit filter	FKS5625.300 (2026.001)		



FAN FILTER

FKL55



Slim Design, Maximum Cooling Efficiency

The FKL55 series offers an advanced cooling solution with a sleek, slim cover that integrates seamlessly into any enclosure setup. Its high dust and water-repellent louvre design ensures optimal protection against harsh environmental conditions, maintaining consistent performance.

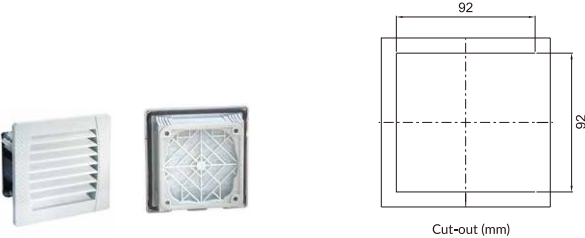
Engineered for maximum cooling efficiency, this model incorporates advanced airflow technology, delivering superior cooling while minimizing energy consumption. The FKL55 is the perfect choice for customers seeking high performance, durability, and space-saving design in their enclosure thermal management systems.

FKL5521

Color RAL7035/RAL7032 IP rating IP54/55

Max airflow: **76m³/h**

Dimensions(WxH): 111.2x111.2mm



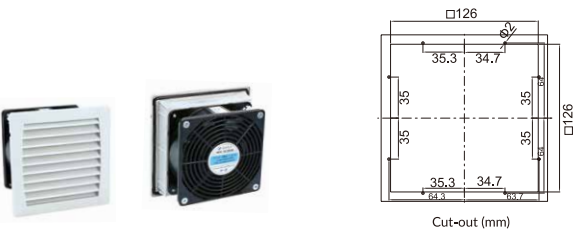
Model	FKL5521-8025.230	FKL5521.115	FKL5521.024
Order number	2025.049/2025.050	2025.023/2025.047	2025.024/2025.048
Fan model	F2E-8025B-230	F2E-8025B-115	F2E-8025B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	30/36m³/h	76m³/h
	IP54	20/25m³/h	40m³/h
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.08/0.07	0.14/0.16	0.13
Power (W)	15/12	10/12	3.10
Noise level (dB)	36/38		34
Operating temperature range	-10°C to +55°C		
Exit filter	FKL5521.300 RAL7035 / RAL7032 (2025.021 / 2025.045)		

FKL5522

Color RAL7035/RAL7032 IP rating IP54/55

Max airflow: **195m³/h**

Dimensions(WxH): 145.2x145.2mm



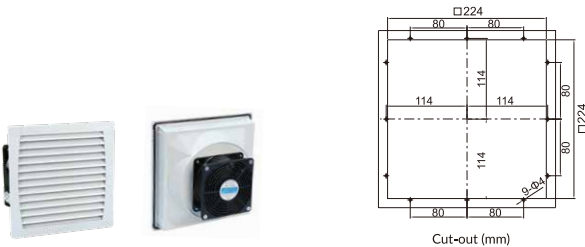
Model	FKL5522.230	FKL5522.115	FKL5522.024
Order number	2025.001/2025.025	2025.002/2025.026	2025.003/2025.027
Fan model	F2E-120S-230 	F2E-120S-115 	F2E-120B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	145/160m³/h	195m³/h
	IP54	72/75m³/h	80m³/h
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.12/0.10	0.34/0.28	0.40
Power (W)	20/15	25/21	9.60
Noise level (dB)	50/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL5522.300 RAL7035 / RAL7032 (2025.004 / 2025.028)		

FKL5523

Color RAL7035/RAL7032 IP rating IP54/55

Max airflow: **195m³/h**

Dimensions(WxH): 250x250mm



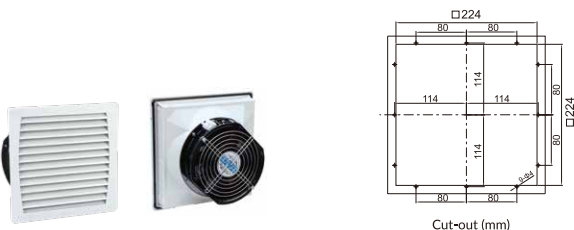
Model	FKL5523.230	FKL5523.115	FKL5523.024
Order number	2025.005/2025.029	2025.006/2025.030	2025.007/2025.031
Fan model	F2E-120S-230 	F2E-120S-115 	F2E-120B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	145/160m³/h	195m³/h
	IP54	100/103m³/h	80m³/h
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.12/0.10	0.34/0.28	0.40
Power (W)	20/15	25/21	9.60
Noise level (dB)	50/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL5523.300 RAL7035 / RAL7032 (2025.008 / 2025.032)		

FKL5525-150

Color RAL7035/RAL7032 IP rating IP54/55

Max airflow: **370m³/h**

Dimensions(WxH): 250x250mm



Model	FKL5525-150.230	FKL5525-150.115
Order number	2025.009/2025.033	2025.010/2025.034
Fan model	F2E-150S-230 	F2E-150S-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	370/325m³/h
	IP54	230/200m³/h
Motor type	Shaded-Pole Motor	
Rated current (A)	0.29/0.27	0.61/0.54
Power (W)	43/40	44/41
Noise level (dB)	58	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL5525.300 RAL7035 / RAL7032 (2025.008 / 2025.032)	

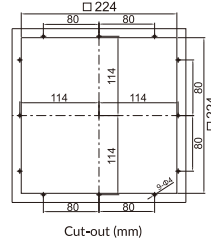
FKL5525-162

Max airflow: **380m³/h**
Dimensions(WxH): 250x250mm



Color
RAL7035/RAL7032

IP rating
IP54/55



Model	FKL5525-162.230	FKL5525-162.115	FKL5525-162.024
Order number	2025.012/2025.036	2025.013/2025.037	2025.011/2025.035
Fan model	F2E-162B-230 	F2E-162B-115 	F2E-162B-24
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow	IP20	325/380m ³ /h	
	IP54	200/235m ³ /h	
Motor type	Shaded-Pole Motor		DC Motor
Rated current (A)	0.23/0.20	0.53/0.41	0.46
Power (W)	37/36	36/34	11.04
Noise level (dB)	48/53		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL5525.300 RAL7035 / RAL7032 (2025.008 / 2025.032)		

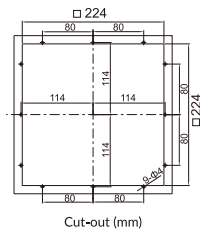
FKL5525-200

Max airflow: **680m³/h**
Dimensions(WxH): 250x250mm



Color
RAL7035/RAL7032

IP rating
IP54/55



Model	FKL5525-200.230	FKL5525-200.115
Order number	2025.014/2025.038	2025.015/2025.039
Fan model	F2E-200B-230	F2E-200B-115
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	680m ³ /h
	IP54	420/450m ³ /h
Motor type	Shaded-Pole Motor	
Rated current (A)	0.36/0.40	0.70/0.83
Power (W)	50/53	50/53
Noise level (dB)	63/67	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL5525.300 RAL7035 / RAL7032 (2025.008 / 2025.032)	

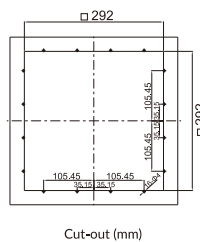
FKL5526

Max airflow: **1050m³/h**
Dimensions(WxH): 320x320mm



Color
RAL7035/RAL7032

IP rating
IP54/55



Model	FKL5526.230	FKL5526.115
Order number	2025.016/2025.040	2025.017/2025.041
Fan model	F2E-260B-230 	F2E-260B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	925/1050m ³ /h
	IP54	450/500m ³ /h
Motor type	Shaded-Pole Motor	
Rated current (A)	0.32/0.30	0.58/0.60
Power (W)	64/71	67/74
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL5526.300 RAL7035 / RAL7032 (2025.020 / 2025.044)	

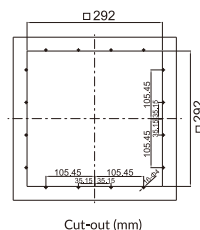
FKL5526-D

Max airflow: **1800m³/h**
Dimensions(WxH): 320x320mm



Color
RAL7035/RAL7032

IP rating
IP54/55



Model	FKL5526.230-D	FKL5526.115-D
Order number	2025.018/2025.042	2025.019/2025.043
Fan model	F2E-320B-230 	F2E-320B-115 
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow	IP20	1720/1800m ³ /h
	IP54	1038/1056m ³ /h
Motor type	Shaded-Pole Motor	
Rated current (A)	0.50/0.70	1.00/1.20
Power (W)	119/153	105/125
Noise level (dB)	68/70	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL5526.300 RAL7035 / RAL7032 (2025.020 / 2025.044)	



Leipole's roof ventilator is designed to efficiently remove heat from enclosures, providing powerful airflow to ensure optimal temperature control.

This ventilator is ideal for applications requiring robust ventilation to maintain the stability of sensitive equipment by exhausting excess heat from the top of the enclosure.

With its durable construction and effective airflow management, the roof ventilator enhances overall cooling performance, ensuring long-lasting protection for your systems.

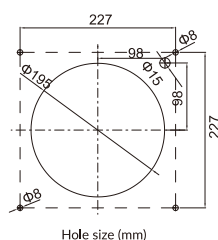
DP series

Filter Fans: **570~1340m³/h**
 Dimensions(WxDxH): 310x270x130mm



Color
RAL7035/RAL7032

IP rating
IP55



Model	F2E190-230-DP	F2E 220-230-DP	F2E 225-230-DP
Order number	2017.004/2017.011	2017.005/2017.012	2017.006/2017.017
Motor model	M2E09201-AF	M2E09202-AF	M2E09203-AF
Rated voltage (V / Hz)	230/50/60		
Air flow, free blowing	570/620m³/h	860/900m³/h	1200/1340m³/h
Axial Fan	Electric capacitance		
Rated current (A)	0.33/0.32	0.51/0.55	0.60/0.74
Power (W)	69/73	105/123	131/165
Noise level (dB)	62/64	73/74	69/71
Operating temperature range	-10°C to +55°C		
Remarks	The number of air inlet filter, size according to the specific circumstances.		

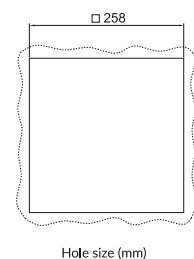
DVP series

Filter Fans: **430~1340m³/h**
 Dimensions(WxDxH): 400x400x135mm



Color
RAL7035/RAL7032

IP rating
IP22/IP55



Model	F2E190-230-DVP	F2E220-230-DVP	F2E225-115-DVP	F2E225-230-DVP	F2E225-380-DVP
Order number	2017.018/2017.023	2017.019/2017.024	2017.020/2017.025	2017.021/2017.026	2017.022/2017.027
Rated voltage (V / Hz)	230AC-50/60	230AC-50/60	115AC-50/60	230AC-50/60	380AC,1-50/60
Voltage range (V)	200~240AC	200~240AC	100~120AC	200~240AC	350~400AC
Air flow, free blowing (IP22)	570/620m³/h	860/900m³/h	1200/1340m³/h	860/900m³/h	860/900m³/h
Air flow, free blowing (IP55)	430/465m³/h	675/702m³/h	870/960m³/h	675/702m³/h	675/702m³/h
Rated current (A)	0.33/0.32	0.51/0.55	1.30/1.45	0.60/0.74	0.34/0.45
Power (W)	69/73	105/123	130/171	131/165	130/171
Size (WxHxL mm)	400x135x400				
Hole size (mm)	258x258				
Centrifugal fan	Capacitive motor				
Operating temperature	-20°C to +55°C				
Storage temperature	-25°C to +70°C				
Noise level (dB)	71	74		71	
With exit filters	FKL6626.300				

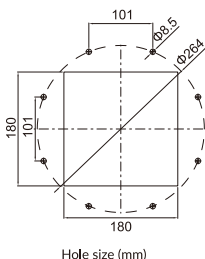
DSP series

Filter Fans: **570~1340m³/h**
 Dimensions(WxDxH): 400x350x103mm



Color
RAL7035

Retardant Rating
UL94-V2



Model	F2E190-230-DSP	F2E220-230-DSP	F2E225-230-DSP
Order number	2017.007	2017.008	2017.009
Motor model	M2E09201-AF	M2E09202-AF	M2E09203-AF
Rated voltage (V / Hz)	230/50/60		
Air flow, free blowing	570/620m³/h	860/900m³/h	1200/1340m³/h
Axial Fan	Electric capacitance		
Rated current (A)	0.33/0.32	0.51/0.55	0.60/0.74
Power (W)	69/73	105/123	131/165
Noise level (dB)	62/64	73/74	69/71
Operating temperature range	-10°C to +55°C		
Remarks	The number of air inlet filter, size according to the specific circumstances.		

COOLING FANS

F2E/FLW



Leipole Cooling Fans – Optimal Thermal Management for Enclosures

Leipole's range of cooling fans is engineered to deliver high-performance thermal management solutions, ensuring the safe and efficient operation of electrical enclosures. Our fans are designed to prevent overheating and maintain ideal internal conditions, extending the lifespan of sensitive components.

Key Features:

- **Axial and Centrifugal Fans:** Available in axial and centrifugal designs, these fans provide powerful airflow solutions tailored to specific enclosure requirements.
- **UL-Certified:** Recognized by UL for compliance with international safety standards, Leipole's cooling fans guarantee reliable performance and peace of mind.
- **Slim Profile:** A compact design that ensures a minimal footprint, optimizing space without compromising airflow efficiency.
- **Durability:** Built to withstand harsh environments, our fans offer consistent performance in demanding conditions, including high temperatures and dust-heavy areas.
- **Energy Efficiency:** Designed for optimal airflow while maintaining low energy consumption, ensuring sustainable operation.

80x80mm

Airflow: 30~60m³/h



F2E-80B-230

F2E-80B-24

F2E-80B-230-B

- **Insulation Grade** According to IEC61858 Grade B
- **Dimensions**

F2E-80B-230	80x80x38mm
F2E-80B-24	80x80x24mm
F2E-80B-230-B	80x80x38.5mm

Model	F2E-80B-230	F2E-80B-230-B	F2E-80B-115	F2E-80B-24
Order number	2018.001	2018.070	2018.002	2018.036
Motor type	Shaded Pole Motor			DC
Bearing	Ball			
Voltage (V)	230	230	115	24
Frequency (Hz)	50/60	50/60	50/60	—
Current (A)	0.08/0.10	0.06/0.05	0.14/0.16	0.13
Power (W)	15/12	12/10	10/12	3.10
Speed (r/min)	2300/2400	2800/3300	2300/2400	3000
Air Flow (m³/h)	30/36	60	30/36	64
Noise (dB)	36/38	35	36/38	34
House material	Die-cast aluminum			PPT+GF
Impeller material	PPT+GF	Sheet steel, painted black	PPT+GF	PPT+GF
Operating temperature	-30 ~ +60	-40 ~ +65	-30 ~ +60	-30 ~ +55
Service life	30000h S1	50000h S1	30000h S1	30000h S1
Certification	—	CCC	—	—
Weight (g)	350	370	350	51
IP rating	34	44	34	34

92x92mm

Airflow: 45~93m³/h



F2E-92S/B-230

F2E-92S/B-024

F2E-90B-230-B

- **Insulation Grade** According to IEC61858 Grade B
- **Dimensions**

F2E-92B-230	92x92x25mm
F2E-92S/B-024	92x92x25mm
F2E-90B-230-B	90.5x90.5x39mm

Model	F2E-92S/B-230	F2E-90B-230-B	F2E-92S/B-115	F2E-92S/B-24
Order number	2018.005	2018.071	2018.006	2018.029/046
Motor type	Shaded Pole Motor			DC
Bearing	Sleeve/Ball	Ball	Sleeve/Ball	Sleeve/Ball
Voltage (V)	230		115	24
Frequency (Hz)	50/60			—
Current (A)	0.08/0.07		0.16/0.14	0.09
Power (W)	10/12	13/11	10/12	2.16
Speed (r/min)	2300/2400	2750/3250	2300/2400	3000
Air Flow (m³/h)	45	90.5	45	93
Noise (dB)	38	36	38	33
House material	Die-cast aluminum			PPT+GF
Impeller material	PPT+GF	Sheet steel, painted black	PPT+GF	PPT+GF
Operating temperature	-30 ~ +60	-40 ~ +65	-30 ~ +60	-30 ~ +55
Service life	25000h S1/30000h S1	50000h S1	25000h S1/30000h S1	25000h S1/30000h S1
Certification	—	CCC	—	—
Weight (g)	188	400	188	85
IP rating	34	44	34	34

119.5x119.5mm

Airflow: 145~195m³/h



F3E-12038S-230

F2E-120S-230

F2E-120S-24

F2E-120B-230-B

- **Insulation Grade** According to IEC61858 Grade B
- **Dimensions**

F2E-120S-230	119.5x119.5x38.5mm
F2E-120S-24	119.5x119.5x38.5mm
F2E-120B-230-B	119.5x119.5x38mm

Model	F2E-120S/B-230	F2E-120B-230-B	F2E-120S/B-115	F2E-120B-24
Order number	2018.007/009	2018.072	2018.008/010	2018.032
Motor type	Shaded Pole Motor			DC
Bearing	Sleeve/Ball	Ball	Sleeve/Ball	Ball
Voltage (V)	230		115	24
Frequency (Hz)	50/60			—
Current (A)	0.12/0.10		0.34/0.28	0.20
Power (W)	20/15	18/16	25/21	4.80
Speed (r/min)	2500/2700	2650/3100	2500/2700	3000
Air Flow (m³/h)	145/160	165	145/160	195
Noise (dB)	50/52	38	50/52	45
House material	Die-cast aluminum			PPT+GF
Impeller material	PPT+GF	Sheet steel, painted black	PPT+GF	PPT+GF
Operating temperature	-30 ~ +60	-40 ~ +65	-30 ~ +60	-30 ~ +55
Service life	25000h S1/30000h S1	50000h S1	25000h S1/30000h S1	30000h S1
Certification	CCC, CE	CCC	CCC, CE	—
Weight (g)	550	530	550	240
IP rating	34	44	34	34

150x52mm

Airflow: **370~325m³/h**



F2E-150B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade B

Model	F2E-150S/B-230	F2E-150S/B-115
Order number	2018.011/013	2018.012/014
Motor number/type	M2E07202B-AB/Shaded Pole Motor	M2E07202A-AB/Shaded Pole Motor
Bearing	Sleeve/Ball	
Voltage (V)	230	115
Frequency (Hz)	50/60	
Current (A)	0.29/0.27	0.61/0.54
Power (W)	43/40	44/41
Speed (r/min)	2600/2620	2600/2560
Air Flow (m³/h)	370/325	
Noise (dB)	58	
House material	Die-cast aluminum	
Impeller material	PPT+GF	
Operating temperaturet	-40 ~ +65	
Service life	25000h S1/30000h S1	
Certification	 	
Weight (g)	900	
IP rating	34	

162x55mm

Airflow: **325~380m³/h**



F2E-162B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade B

Model	F2E-162B-230	F2E-162B-115
Order number	2018.015	2018.016
Motor number/type	M2E07201B-AB/Shaded Pole Motor	M2E07201A-AB/Shaded Pole Motor
Bearing	Ball	
Voltage (V)	230	115
Frequency (Hz)	50/60	
Current (A)	0.23/0.20	0.53/0.41
Power (W)	37/36	36/34
Speed (r/min)	2650/3000	
Air Flow (m³/h)	325/380	
Noise (dB)	48/52	
House material	Die-cast aluminum	
Impeller material	Sheet steel, painted black	
Operating temperaturet	-40 ~ +80	
Service life	50000h S1	
Certification	 	
Weight (g)	1100	
IP rating	44	

Ø171x52mm

Airflow: **330/325m³/h**



F2E-170B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade B

Model	F2E-170B-230	F2E-170B-115
Order number	2018.043	2018.042
Motor number/type	M2E07402A-AB/Shaded Pole Motor	M2S07402A-AB/Shaded Pole Motor
Bearing	Ball	
Voltage (V)	230	115
Frequency (Hz)	50/60	50/60
Current (A)	0.30/0.26	0.61/0.54
Power (W)	45/42	42/40
Speed (r/min)	2600/2700	2580/2600
Air Flow (m³/h)	330	325
Noise (dB)	55	57
House material	Die-cast aluminum	
Impeller material	PPT+GF	
Operating temperaturet	-40 ~ +65	
Service life	30000h S1	
Certification	 	
Weight (g)	900	
IP rating	34	

200x204mm

Airflow: **680m³/h**



F2E-200B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade B

Model	F2E-200B-230
Order number	2018.047
Motor type	Shaded Pole MotorBall
Bearing	ball
Voltage (V)	230
Frequency (Hz)	50/60
Current (A)	0.36/0.38
Power (W)	50/53
Speed (r/min)	2650/2680
Air Flow (m³/h)	680
Noise (dB)	68
House material	Die-cast aluminum
Impeller material	PPT+GF
Operating temperaturet	-40 ~ +65
Service life	30000h S1
Certification	—
Weight (g)	1600
IP rating	34

Ø223x60mm

Airflow: **580m³/h**



F2E-220B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade B

Model	F2E-220B-230	F2E-220B-115
Order number	2018.017	2018.018
Motor number/type	Shaded Pole Motor	
Bearing	Ball	
Voltage (V)	230	115
Frequency (Hz)	50/60	
Current (A)	0.30	0.90
Power (W)	58	
Speed (r/min)	2500	
Air Flow (m³/h)	580	
Noise (dB)	56	
House material	Die-cast aluminum	
Impeller material	PPT+GF	
Operating temperaturet	-40 ~ +65	
Service life	30000h S1	
Certification	—	
Weight (g)	1340	
IP rating	34	

208.5x208.5mm

Airflow: **800~970m³/h**



F2E-20772B.230-A

F2E-20772B.230-M

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade F

Model	F2E-20772B.230-A	F2E-20772B.230-M
Order number	2018.068	2018.069
Motor number/type	M2E09202D-AF/Capacitor Start Induction Motor	
Bearing	Ball	
Voltage (V)	230	115
Frequency (Hz)	50/60	
Current (A)	0.35/0.43	0.32/0.41
Power (W)	75/98	72/98
Speed (r/min)	2650/3000	2650/2950
Air Flow (m³/h)	800/900	850/970
Noise (dB)	63	
House material	Die-cast aluminum	
Impeller material	Sheet steel, painted black	Magnesium alloys
Operating temperaturet	-40 ~ +80	
Service life	50000h S1	
Certification	 	
Weight (g)	2570	
IP rating	44	

Ø253.5x90mm

Airflow: **2645m³/h**



F2E-250B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade F

Model	F2E-250B-230
Order number	2018.019
Motor number/type	M2E09202E-AF/Capacitor Start Induction Motor
Bearing	Ball
Voltage (V)	230
Frequency (Hz)	50/60
Current (A)	0.32/0.45
Power (W)	71/100
Speed (r/min)	2650/2935
Air Flow (m³/h)	1125/1245
Noise (dB)	68
House material	Die-cast aluminum
Impeller material	Sheet steel, painted black
Operating temperatureret	-40 ~ +80
Service life	50000h S1
Certification	 
Weight (g)	2645
IP rating	44

225x225mm

Airflow: **925~1050m³/h**



F2E-260B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade F

Model	F2E-260B-230	F2E-260B-115
Order number	2018.021	2018.022
Motor number/type	M2E09201A-AF/Capacitor Start Induction Motor	M2S09201A-AF/Capacitor Start Induction Motor
Bearing	Ball	
Voltage (V)	230	115
Frequency (Hz)	50/60	
Current (A)	0.32/0.30	0.58/0.60
Power (W)	64/71	67/74
Speed (r/min)	2550/2800	2500/2750
Air Flow (m³/h)	925/1050	925/1000
Noise (dB)	63/61	62/64
House material	Die-cast aluminum	
Impeller material	Sheet steel, painted black	
Operating temperatureret	-40 ~ +80	
Service life	50000h S1	
Certification	 	
Weight (g)	2200	
IP rating	44	

280x280mm

Airflow: **1720/1800m³/h**



F2E-320B-230

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Insulation Grade** Design according to IEC61858 Grade B

Model	F2E-320B-230	F2E-320B-115
Order number	2018.023	2018.024
Motor number/type	M2E09202A-AF/Capacitor Start Induction Motor	M2S09202A-AF/Capacitor Start Induction Motor
Bearing	Ball	
Voltage (V)	230	115
Frequency (Hz)	50/60	
Current (A)	0.50/0.70	1.00/1.20
Power (W)	119/153	105/125
Speed (r/min)	2450/2670	2560/2850
Air Flow (m³/h)	1720/1800	1720/1800
Noise (dB)	68/70	68/70
House material	Die-cast aluminum	
Impeller material	Sheet steel, painted black	
Operating temperatureret	-40 ~ +80	
Service life	50000h S1	
Certification	 	
Weight (g)	2900	
IP rating	44	

BACKWARD CENTRIFUGAL FAN



133FLW2/3

Airflow: **270/330m³/h**
Dimensions(WxH): Ø93.5x76.8mm

Certification
CE, RoHS

IP rating
IP44

- **Motor** Shaded Pole Motor
- **Impeller** PP+GF
- **Operation temperature and humidity range:**
-30 °C ~ +55 °C (temperature) 0%~95% (humidity)
- **Protection** Impedance protected / Automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade B



Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
133FLW2	2019.001	220	50	1	23	0.11	2800	270	185	58	660	1.5/400
133FLW3	2019.002	380	50/60	1	34/35	0.13/0.14	2670	330	240	60	660	-

170FLW2/3

Airflow: **450m³/h**
Dimensions(WxH): Ø175x69.1mm

Certification
CE, RoHS

IP rating
IP44

- **Motor** Capacitor Start Induction Motor
- **Impeller** PA6+GF
- **Operation temperature and humidity range:**
-40 °C ~ +80 °C (temperature) 0%~95% (humidity)
- **Protection** Impedance protected / Automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F



Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
170FLW2	2019.003	220	50	1	60	0.30	2400	450	275	56	1240	1.5/400
170FLW3	2019.004	380	50	1	60	0.20	2400	450	275	56	1240	-

190FLW2/3

Certification
 

IP rating
IP44

Airflow: **570/1170m³/h**
 Dimensions(WxH): Ø190x72mm



- **Motor** Capacitor Start Induction Motor
- **Impeller** PA6+GF
- **Operation temperature and humidity range:**
-40 °C ~+80 °C (temperature) 0%~95% (humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
190FLW2	2019.005	220	50/60	1	56/71	0.24/0.3	2450	570	325	64	1270	40/450VDB
190FLW3	2019.006	380	50	1	160	0.50	2600	1170	520	71	1270	-

220FLW2/3

Certification
 

IP rating
IP44

Airflow: **900~1020m³/h**
 Dimensions(WxH): Ø221.5x76.8mm



- **Motor** Capacitor Start Induction Motor
- **Impeller** PP+GF
- **Operation temperature and humidity range:**
-30 °C ~+65 °C (temperature) 0%~95% (humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
220FLW2	2019.007	220	50/60	1	98/118	0.46/0.51	2570/2920	1002	420/520	71/74	1800	3μF/450VDB
220FLW3	2019.008	380	50/60	1/3	100/125	0.29/0.35	2580/2950	900/1020	420/520	71/74	1800	-

225FLW2/3

Certification
 

IP rating
IP44

Airflow: **1200/1338m³/h**
 Dimensions(WxH): Ø226x101.2mm



- **Motor** Capacitor Start Induction Motor
- **Impeller** PA6+GF
- **Operation temperature and humidity range:**
-40 °C ~+80 °C (temperature) 0%~95% (humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
225FLW2	2019.011	220	50/60	1	131/170	0.62/0.74	2630/2930	1200/1338	550/725	69/71	2300	4μF/450VDB
225FLW4	2019.012	380	50/60	1/3	135/170	0.34/0.44	2650/2950	1200/1338	550/725	69/71	2300	-

250FLW2/4

Airflow: **1452/1524m³/h**
Dimensions(WxH): Ø250x93.9mm



Certification
CE, RoHS

IP rating
IP44

- **Motor** Capacitor Start Induction Motor
- **Impeller** PA6+GF
- **Operation temperature and humidity range:**
-40 C ~+80 C (temperature) 0%~95%(humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
250FLW2	2019.011	220	50/60	1	131/173	0.59/0.76	2650/2970	1452/1524	580/750	74/76	2700	4μF/450VDB
250FLW4	2019.012	380	50/60	1/3	152/205	0.38/0.49	2550/2750	1452/1524	420/520	74/76	2700	-

280FLW2

Airflow: **1992m³/h**
Dimensions(WxH): Ø281x95mm



Certification
CE, RoHS

IP rating
IP44

- **Motor** Capacitor Start Induction Motor
- **Impeller** Galvanized steel sheets
- **Operation temperature and humidity range:**
-40 C ~+80 C (temperature) 0%~95% (humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
280FLW2	2019.013	220	50/60	1	230/305	1.03/1.30	2550/2750	1992/2112	700/750	72/75	3000	8μF/450VDB

310FLW4

Airflow: **2124m³/h**
Dimensions(WxH): Ø316.5x159mm



Certification
CE, RoHS

IP rating
IP44

- **Motor** Capacitor Start Induction Motor
- **Impeller** Aluminum
- **Operation temperature and humidity range:**
-40 C ~+80 C (temperature) 0%~95% (humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
310FLW4	2019.015	220	50/60	1	110/150	0.46/0.62	1329/1565	2124/2370	300/400	62	3800	3μF/450VDB

350FLW4A/5A

Airflow: **1848/2118m³/h**
 Dimensions(WxH): Ø355x130mm



Certification


IP rating
 IP44

- **Motor** Capacitor Start Induction Motor
- **Impeller** Aluminum
- **Operation temperature and humidity range:**
 -40 °C ~ +80 °C (temperature) 0%~95% (humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
350FLW4A	2019.017	220	50/60	1	105/145	0.46/0.63	1400/1600	1848/2118	350/460	63/66	4700	3μF/450VDB
350FLW5A	2019.018	380	50/60	1/3	136/137	0.33/0.32	1400/1600	1848/2118	350/460	63/66	4700	-

355FLW4A

Airflow: **2580m³/h**
 Dimensions(WxH): Ø355x162mm



Certification


IP rating
 IP44

- **Motor** Capacitor Start Induction Motor
- **Impeller** Aluminum
- **Operation temperature and humidity range:**
 -40 °C ~ +80 °C (temperature) 0%~95% (humidity)
- **Protection** Motor Internal with automatic recovery thermal protection
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** design according to IEC61858 Grade F

Model	Order Code	Rated Voltage (V)	Frequency (Hz)	Phase	Input Power (W)	Current (A)	Speed (r/min)	Air Flow (m ³ /h)	Static Pressure (Pa)	Noise (dB)	Weight (g)	Capacitance
355FLW4A	2019.020	220	50/60	1	170/230	0.78/0.8	1370	2580	410	65	4750	5μF/450VDB



ENCLOSURE AIR CONDITIONER

500W~4000W



Leipole's enclosure air conditioners are designed to deliver precision cooling, ensuring that sensitive electronic components are protected from overheating.

Featuring an IP54 rating, these units offer excellent resistance to dust and water, making them ideal for demanding industrial environments.

With integrated Modbus protocol and a 485 communication interface, Leipole's air conditioners provide advanced control and monitoring capabilities, ensuring reliable performance and energy efficiency. These air conditioners are the perfect solution for maintaining optimal operating conditions inside enclosures, protecting equipment and ex.

LP500N-1

Cooling capacity: **500W**
 Dimensions(WxDxH): 315x175x546mm



L35/L35 represents the nominal cooling capacity tested when both the internal and external temperatures are 35 °C, while L35/L55 represents the cooling capacity tested with an internal temperature of 35 °C and an external temperature of 55 °C.

Certification
CE

Modbus protocol
RS485

Order code	2027.001
Cooling capacity	500W, 1705BTU/h
Nominal voltage	220V/50Hz/60Hz
Nominal capacity	(L35/L35) 210W, (L35/L55) 260W
Nominal current	1.0A
Dimensional	315*546*175mm
Installation	Screw mounting
Operating temperature	(-10 °C ~+55 °C)
Setpoint temperature	(+28 °C ~+40 °C)
Air flow	120m³/h
IP rating	Internal IP54/External IP34
Refrigerant Type	R134a
Noise level	60dB
Finish	Power coated RAL7035
Weight	15Kg
Filter	Yes
Condensate evaporation	It is optional and can be ordered according to your specific requirements

LP1000N-1

Cooling capacity: **1000W**
 Dimensions(WxDxH): 381x163x793mm



L35/L35 represents the nominal cooling capacity tested when both the internal and external temperatures are 35 °C, while L35/L55 represents the cooling capacity tested with an internal temperature of 35 °C and an external temperature of 55 °C.

Certification
CE

Modbus protocol
RS485

Order code	2027.002
Cooling capacity	1000W, 3412BTU/h
Nominal voltage	220V/50Hz/60Hz
Nominal capacity	(L35/L35) 440W, (L35/L55) 600W
Nominal current	2.0A
Dimensional	381*793*163mm
Installation	Screw mounting
Operating temperature	(-10 °C ~+55 °C)
Setpoint temperature	(+28 °C ~+40 °C)
Air flow	440m³/h
IP rating	Internal IP54/External IP34
Refrigerant Type	R134a
Noise level	65dB
Finish	Power coated RAL7035
Weight	30Kg
Filter	Yes
Condensate evaporation	It is optional and can be ordered according to your specific requirements

LP1500N-1

Cooling capacity: **1500W**
 Dimensions(WxDxH): 412x170x1112mm



L35/L35 represents the nominal cooling capacity tested when both the internal and external temperatures are 35 °C, while L35/L55 represents the cooling capacity tested with an internal temperature of 35 °C and an external temperature of 55 °C.

Certification
CE

Modbus protocol
RS485

Order code	2027.003
Cooling capacity	1500W, 5118BTU/h
Nominal voltage	220V/50Hz/60Hz
Nominal capacity	(L35/L35) 650W, (L35/L55) 820W
Nominal current	3.0A
Dimensional	412*1112*170mm
Installation	Screw mounting
Operating temperature	(-10 °C ~+55 °C)
Setpoint temperature	(+28 °C ~+40 °C)
Air flow	490m³/h
IP rating	Internal IP54/External IP34
Refrigerant Type	R134a
Noise level	65dB
Finish	Power coated RAL7035
Weight	40Kg
Filter	Yes
Condensate evaporation	It is optional and can be ordered according to your specific requirements

LP3000N-1

Cooling capacity: **3000W**
Dimensions(WxDxH): 485x220x1150mm



L35/L35 represents the nominal cooling capacity tested when both the internal and external temperatures are 35 °C, while L35/L55 represents the cooling capacity tested with an internal temperature of 35 °C and an external temperature of 55 °C.

Certification **CE** Modbus protocol **RS485**

Order code	2027.004
Cooling capacity	3000W, 10236BTU/h
Nominal voltage	220V/50Hz/60Hz
Nominal capacity	(L35/L35) 1300W, (L35/L55) 1650W
Nominal current	5.9A
Dimensional	485*1150*220mm
Installation	Screw mounting
Operating temperature	(-10 °C ~+55 °C)
Setpoint temperature	(+28 °C ~+40 °C)
Air flow	950m³/h
IP rating	Internal IP54/External IP34
Refrigerant Type	R134a
Noise level	65dB
Finish	Power coated RAL7035
Weight	50Kg
Filter	Yes
Condensate evaporation	It is optional and can be ordered according to your specific requirements

LP4000N-1

Cooling capacity: **4000W**
Dimensions(WxDxH): 485x306x1510mm



L35/L35 represents the nominal cooling capacity tested when both the internal and external temperatures are 35 °C, while L35/L55 represents the cooling capacity tested with an internal temperature of 35 °C and an external temperature of 55 °C.

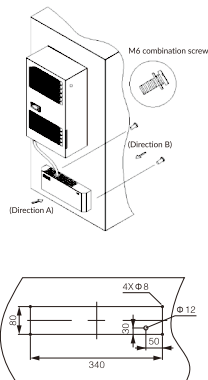
Certification **CE** Modbus protocol **RS485**

Order code	2027.005
Cooling capacity	4000W, 13650BTU/h
Nominal voltage	220V/50Hz/60Hz
Nominal capacity	(L35/L35) 1725W, (L35/L55) 1840W
Nominal current	7.8A
Dimensional	485*1510*306mm
Installation	Screw mounting
Operating temperature	(-10 °C ~+55 °C)
Setpoint temperature	(+28 °C ~+40 °C)
Air flow	1250m³/h
IP rating	Internal IP54/External IP34
Refrigerant Type	R134a
Noise level	68dB
Finish	Power coated RAL7035
Weight	80Kg
Filter	Yes
Condensate evaporation	It is optional and can be ordered according to your specific requirements

LP030-A2Q

Evaporation system

Installation diagram



Order code	2027.006
Dimensional	362*130*60mm
Nominal voltage	220V, 50Hz
Nominal current	2.4A
Power	500W
Evaporation capacity	9.6L/D
Operation temperature	-40~+55 °C RH0-95%
Weight	2Kg

Operating Instructions:

- 1.This unit is designed to work in tandem with enclosure air conditioning systems, specifically for the collection and evaporation of condensation water.
- 2.During operation, connect one end of a plastic drainage pipe to the condensation outlet of the air conditioner. Ensure the other end of the pipe is securely inserted into the drainage port on this device, as indicated in the installation diagram.
- 3.The device should be installed beneath the air conditioner but positioned at a safe distance to prevent exposure to excessive steam. If space is limited, it can be placed directly on the floor, but precautions should be taken to avoid any risk of personnel coming into contact with hot water vapor.

ENCLOSURE HEATERS



Reliable Protection Against Cold and Condensation

Leipole Electric's enclosure heaters are designed to regulate internal temperatures and prevent condensation within enclosures. These heaters ensure that sensitive components operate efficiently, even in cold or damp environments.

By maintaining a stable and optimal climate, Leipole's enclosure heaters protect against moisture-related damage, prolonging the lifespan of equipment and ensuring reliable system performance.

Ideal for industrial applications, these heaters are a dependable solution for maintaining enclosure integrity in harsh conditions.

JRQ15~JRQ150

 Certification
 CE RoHS

 IP rating
 IP20

Operating Voltage	230VAC 50/60 Hz
Heating element	PTC, self-adjustment and temperature limits
Connector	Push-in terminal 0.5-2.5mm ²
Flame retardand rating	UL94V0
Case Material	Aluminum
Installation Requirements	Vertical
Operating / storage temperature	-45°C to +70°C



Model	Order Code	Heat load (W) 20 °C ambient temperature	Rated Current (A)	Surface temperature (°C)	Din rail thickness (mm)
JRQ15	2020.001	15-20	1.5	60	1.1
JRQ30	2020.002	30-35	2.5	90	1.1
JRQ45	2020.003	45-50	3	100	1.1
JRQ60	2020.004	60-65	3.5	100	1.1
JRQ75	2020.005	75-80	4	120	1.1
JRQ100	2020.006	100-110	4.5	125	1.1
JRQ150	2020.007	150-160	6	135	1.1

JRQ250~JRQ400

Heater with axial fan

 Certification
 CE

 IP rating
 IP20

Operating Voltage	230VAC 50/60 Hz
Heating element	PTC
Airflow	45m ³ /h (50Hz) 54m ³ /h (60Hz)
Connector	R200: 3X0.75mm ² standard line of 0.5-2.5mm ² cable
Flame retardand rating	UL94V0
Case Material	PPS GF-FR
Installation Requirements	Vertical
Operating / storage temperature	-45°C to +70°C



Model	Order Code	Heat output (W)	W×H×D(mm)	Weight (kg)
JRQ250	2020.008	230-270	103×103×202	1.5
JRQ400	2020.027	380-420	103×103×202	1.5

JRQFM100BA~400BA

Heater with axial fan

 Certification
 CE

Heating element	Cast aluminum heater
Heater body	die-cast aluminium
Connector	3-pole screw connector 2.5mm ² , clamping torque 0.8Nm max
Flame retardand rating	plastic according to UL94 V-0, black
Installation	35mm DIN rail, EN 60715
Case Material	Aluminum
Fitting position	vertical airflow
Operating / storage areas	-45°C ~ +75°C (-49°F ~ +158°F)
Operating / Storage humidity	max. 90% RH (non-condensing)
Protection class	IP20



Model	Order Code	Heat load (W)	Fuse 230VAC / 120VAC	W×H×D(mm)	Weight (kg)
JRQFM100BA	2020.010	100	1/1.4A	80×112×22	0.4
JRQFM150BA	2020.011	150	1.25/2A	80×112×22	0.4
JRQFM200BA	2020.012	200	1.4/2.5A	119×151×22	0.5
JRQFM300BA	2020.013	300	2/4A	119×151×22	0.5

JRQFM300BAP

Heater with axial fan



Certification
CE

IP rating
IP20

Model	JRQFM300BAP
Order	2020.024
Heating(Heat load)	300W
Rated voltage	230V AC 50/60Hz
Power capacity	285W
Weight	1250g
Air flow	95m³/h
Case Material	Aluminum
Operating / Storage temperature	-40 °C ~+70 °C (-40°F ~+158°F)
Installation	M6 Screw fixation or clip for 35mm DIN rail

JRQFS200/400



Certification
CE

IP rating
IP20

Heating element	PTC
Operating / storage areas	-45 °C ~85 °C
Weight	0.35Kg
Case Material	Aluminum
Installation direction	Vertical direction
Leakage current	Max. 0.05mA
Inrush current	230VAC/Max.5A

Model	Order Code	Operating voltage	Heat load 50Hz	Maximum current	Air flow	Weight (kg)
JRQFS200	2020.022	220-240VAC 50/60Hz	185-210W	1.1A	63m³/h	0.35
JRQFS400	2020.021	220-240VAC 50/60Hz	386-415W	2.0A	63m³/h	0.35

JRQFS650BA

Heater with thermostat



Certification
CE

Heating element	PTC resistor - temperature limiting
Temperature safety cut-out	to protect against overheating in case of fan failure, automatic reset
Axial fan	ball bearing service life 50,000h at 25 °C (77°F)
Connection	2-pole clamp 2.5mm², clamping torque 0.8Nm max.
Casing	plastic according to UL94 V-0, light grey
Mounting	35mm DIN rail, EN 60715
Fitting position	vertical airflow (air outlet up) – other fitting positions possible
Operating / Storage temperature	-45 °C ~+70 °C (-49°F ~+158°F)
Protection class	IP20

Model	Order Code	Operating voltage	Heat load 50/60Hz	Inrush current max.	Fuse 230VAC,120VAC	Air flow	Setting range Temp. regulator	Weight (approx.) (kg)
JRQFS650BA	2020.015	220-240VAC 50/60Hz	400-410W/630-670W	13.0A	8A	45m³/h	0~+60 °C	1.1

JRQFS800/1200BAT

Heater with thermostat



Certification
CE RoHS

IP rating
IP20

Heating element	PTC
Axial fan	ball bearing airflow 160m³/h, service life 50,000h at 25 °C (77°F)
Connection	2-pole max. 2.5mm², clamping screw with strain relief,torque 0.8Nm max.
Casing	plastic according to UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 60715 or screw fixing (M6)
Fitting position	vertical airflow (air outlet up) – other fitting positions possible
Dimensions	182×160×120mm
Operating / Storage temperature	-45 °C ~+70 °C (-49°F ~+158°F)
Operating / Storage humidity	max.90%RH(non-condensing)
Protection class	IP20

Model	Order Code	Operating voltage	Heat load	Inrush current max.	Fuse 230VAC,120VAC	Setting range	Weight (approx.) (kg)
JRQFS800BAT	2020.017	230VAC,50/60Hz	760-840W	13A	8A	0~+60 °C	1.30
JRQFS1000BAT	2020.019	230VAC,50/60Hz	950-1050W	13A	8A	0~+60 °C	1.30

THERMOSTAT



Precision Control for Temperature and Humidity

Leipole Electric's thermostats and hygrometers provide precise control over temperature and humidity levels inside enclosures, ensuring optimal conditions for sensitive electrical components.

The thermostats regulate heat to prevent overheating or freezing, while the hygrometers maintain balanced humidity levels to avoid condensation.

Together, they offer a reliable solution for maintaining enclosure environments, enhancing equipment safety, and extending the lifespan of critical components in various industrial applications.

JWT 6011

Thermosat



Certification
CE

IP rating
IP20

Model	JWT 6011
Sensing element	Bimetallic
Order	2021.001
Shock load permissible	K1.5-3 (heated) AC 10 (4) A , K1.5-4 (plus cooling) AC 5 (4) A
Temperature adjustment range	+5 °C to +60 °C
Rated voltage	230/115/60/48/24V (AC)
Weight	105g
Size	71X71X33.5mm
Switching difference	Positive and negative 0.8K 1K

JSK0011F/JSK0011R

Automatic Temperature Controller



Certification
CE RoHS

IP rating
IP20

Model	JSK0011F	JSK0011R
Order	2021.008	2021.009
Temperature range	0-60 °C	
Status	JSK0011F normally open (blue) JSK0011R normally closed (red)	
Switching temperature tolerance	7K (± 4K)	
Sensing element	Bimetallic	
Maximum switching capacity	10A / AC 230V	
Electrical connection	2-pole 2.5mm, 0.8Nm	
Installation	35mm DIN rail mounting	
Terminal	UL94V0	
Size	60X33X43mm	
Operating / storage areas	-5 °C to +80 °C	

JSK0012

Double Temperature Controller



Certification
CE RoHS

IP rating
IP20

Model	JSK0012
Order	2021.010
Temperature range	0-60 °C
Switching temperature tolerance	7K (± 4K)
Sensing element	Bimetallic
Maximum switching capacity	10A / AC 230V
Electrical connection	4-pole 2.5mm, 0.8Nm
Installation	35mm DIN rail mounting
Terminal	UL94V0
Case Material	ABS
Weight	90g
Size	69X50X46mm
Operating / storage areas	-5 °C to +80 °C

JSK0013

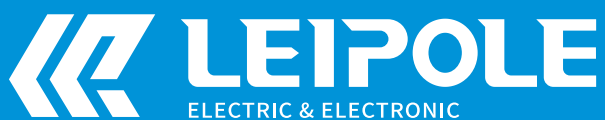
Hygrostat



Certification
CE RoHS

IP rating
IP20

Model	JSK0013
Order	2021.011
Operating humidity	30-90% RH
Switch tolerance	4% RH (± 3%)
Allow air rate	15 m/s
Maximum switching capacity	3A / AC 230V
Electrical connection	3-pole 2.5mm, 0.8Nm
Installation	35mm DIN rail mounting
Terminals	UL94V0
Case Material	ABS
Size	67X50X38mm
Operating / storage areas	-20 °C to +80 °C



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