



Terminal Block

Cabinet Climate Control

Control Transformer

Cabinet Components

2015~2016



LEIPOLE

# CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

Shanghai Leipold Electric Co., Ltd has established for more than 20 years. Leipold has qualified ISO9001: 2008 International Quality System Certificate, and offers comprehensive product portfolio that comply with CQC quality and safety certification and carries UL, CE, VDE approvals as a global passport to the international markets.

Shanghai Leipold has recently moved to a new plant which provides better environment for employees and invested more high-tech equipment in order to satisfy increasing market needs.

Shanghai Leipold is aiming to develop the inside panel products more in order to give one stop shopping availability to end users. Increasing the service and product quality is the main path way for this target.

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INDUSTRIAL AUTOMATION

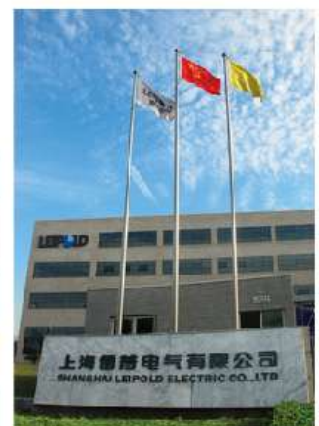
ISO9001-2008



CB

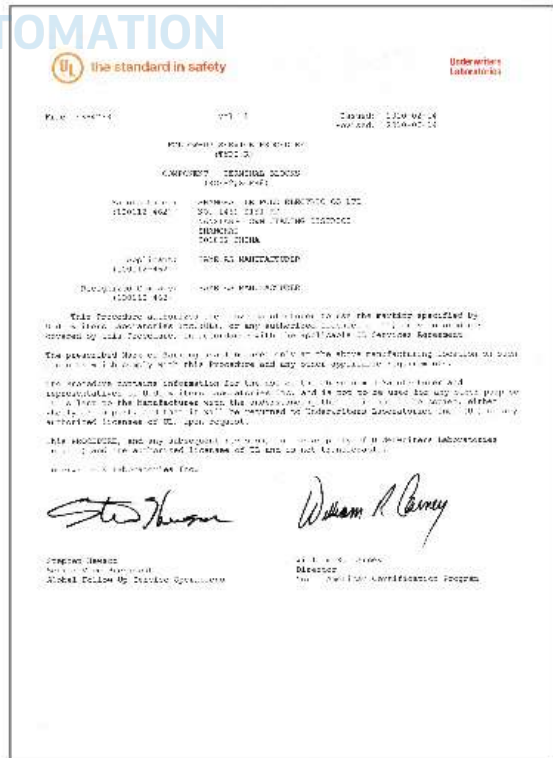
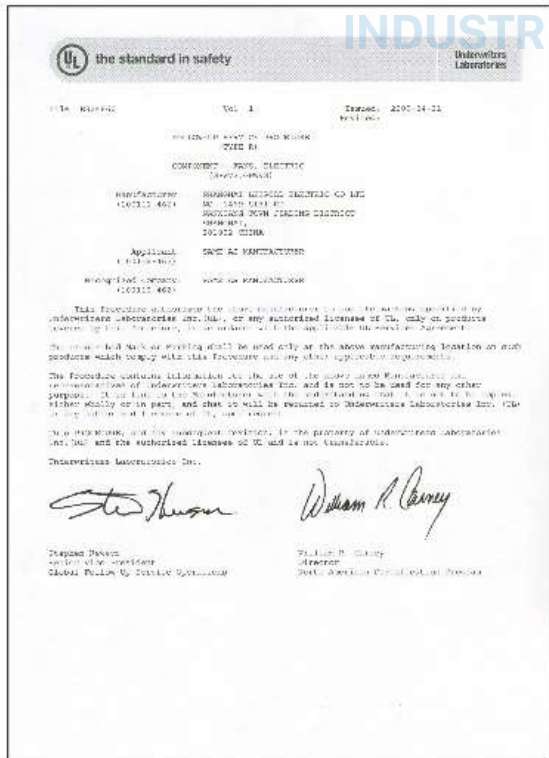
SGS

CE



Hotline: 1900.6536 - Website: HOPLONGTECH.COM





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## Terminal Block

JUK Series	Earth Terminal Block	Testing Terminal Block	Breaking Terminal Block	Double-Layer Type
				
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Double Connection	Triple-layer Type	Fuse Terminal Block	Micro Terminal Block	Shielding Bracket
				
Page 16	17-18	19	20-22	23
L/N/PE Connector Terminal	Transformer terminal block	Spring Terminal Block	Earth Terminal Block	Three-lead Type
				
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Spring Terminal Block	Micro terminal block	JSAK Type	JXB Type	UA series
				
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## Cabinet Climate Control

FK99 series fan and filter



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FK89 series fan and filter



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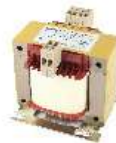
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JBK6 series transformer



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DZD DC power



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JSZ DC power



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# CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

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## Cabinet Components

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Indicator series



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PANEL LOCKS & HINGES



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Patent: ZL 2013 3 0051068.9

### INDUSTRIAL AUTOMATION

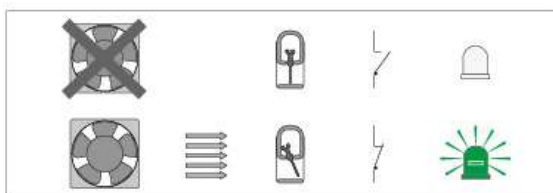
#### The most simplest way to change the filter mat

When the fan filter install on the cabinet, the traditional way to change the filter mat is very complicated and may take users a few hours. Now the solution is simple, for the LEIPOLE FK99 series, users only need to slide the button to open the cover, change the filter and close it.

The whole process only need to take a few seconds.

#### Now you can monitor the airflow

The indicator on the filter shows whether the fan is blowing or out of work. It protects electronic components is working under safty climate. Users can choose either normally open or normally close fans under their requirement.



Normally open



Normally close

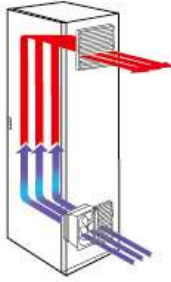
Slide to open the cover



FK9922

Cabinet Climate Control

Material	Retardent Rating	IP rating
ABS	UL94-V2	IP55



Patent: ZL 2013 3 0051068.9  
RAL7035

Fans and filters  
FK 9922....

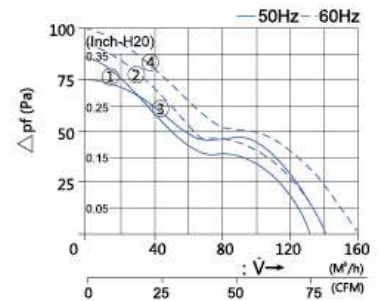
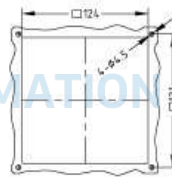
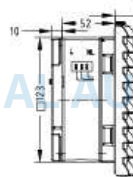
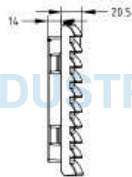
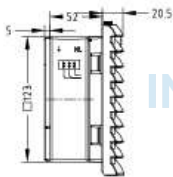
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FK 9922.230....

Exit filter  
FK 9922.300

Fans and filters  
FK9922.230-120.NO  
FK9922.230-120.NC

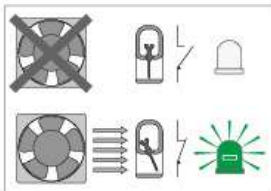
Drawing  
FK 9922....

Performance  
FK 9922....

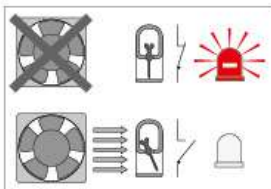


### Technical data

Model	FK9922.230	FK9922.115	FK9922.024
Order number	2023.001	2023.002	2023.003
Normally open/close	FK9922.230-120.NO/NC	FK9922.115-120.NO/NC	FK9922.024-120.NO/NC
Order number	2023.004/2023.007	2023.005/2023.008	2023.006/2023.009
Standard fan	F2E-120S-230	F2E-120S-115	SP-1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24 ( DC )
Air flow, free blowing	55/66m <sup>3</sup> /h		
Air flow With export filters	1xFK9922.300:43/50m <sup>3</sup> /h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/45		
Operating temperature range	-10°C to +55°C		
Exit filter	FK9922.300 2023.010		
Remarks	Special voltage needs can call the inquiry of the Company		



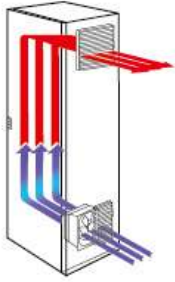
Normally open



Normally close

FK9923

Material	Retardent Rating	IP rating
ABS	UL94-V2	IP55

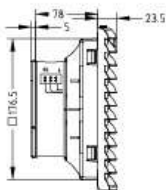


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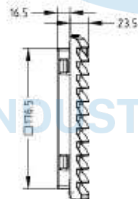
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FK 9923....



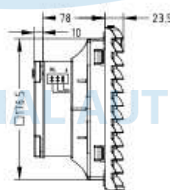
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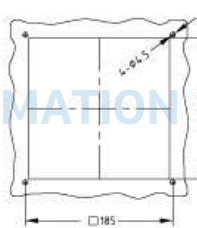
Exit filter  
FK 9923.300



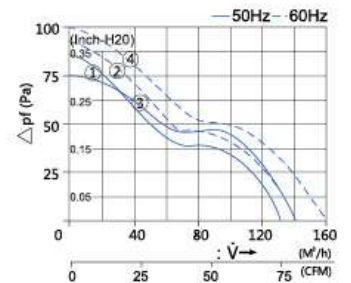
Fans and filters  
FK9923.230-120.NO  
FK9923.230-120.NC



Drawing  
FK 9923....

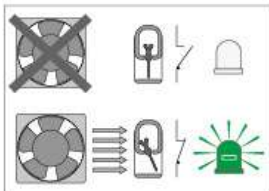


Performance  
FK 9923....

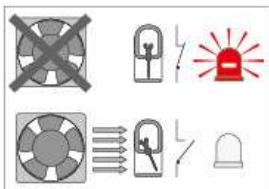


### Technical data

Model	FK9923.230	FK9923.115	FK9923.024
Order number	2023.011	2023.012	2023.013
Normally open/close	FK9923.230-120.NO/NC	FK9923.115-120.NO/NC	FK9923.024-120.NO/NC
Order number	2023.014/2023.017	2023.015/2023.018	2023.016/2023.019
Standard fan	F2E-120S-230	F2E-120S-115	SP-1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24 ( DC )
Air flow, free blowing	105/120m³/h		
Air flow With export filters	1xFK9923.300:71/82m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK9923.300 2023.020		
Remarks	Special voltage needs can call the inquiry of the Company		



Normally open



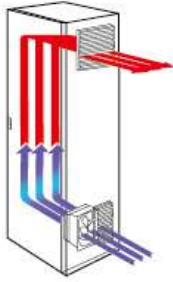
Normally close



FK9925

Cabinet Climate Control

Material	Retardent Rating	IP rating
ABS	UL94-V <sub>2</sub>	IP55



Patent: ZL 2013 3 0051068.9  
RAL7035

Fans and filters  
FK 9925....

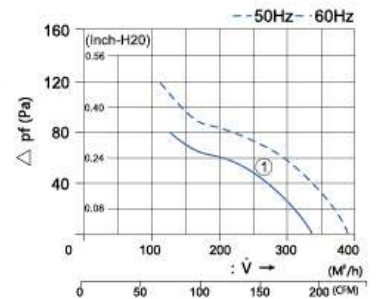
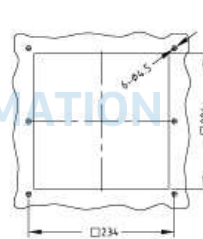
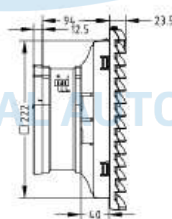
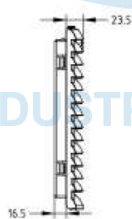
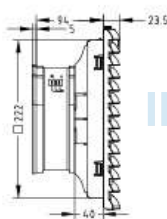
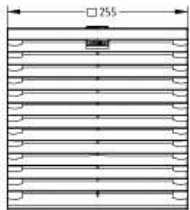
Fans and filters  
FK 9925.230....

Exit filter  
FK 9925.300

Fans and filters  
FK9925.230-162.NO  
FK9925.230-162.NC

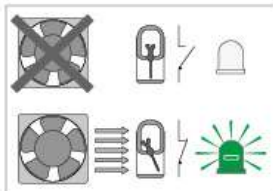
Drawing  
FK 9925....

Performance  
FK 9925....

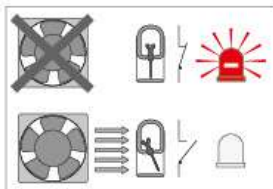


### Technical data

Model	FK9925.230	FK9925.115	FK9925.024
Order number	2023.021	2023.022	2023.023
Normally open/close	FK9925.230-162.NO/NC	FK9925.115-162.NO/NC	FK9925.024-162.NO/NC
Order number	2023.024/2023.027	2023.025/2023.028	2023.026/2023.029
Standard fan	F2E-162B-230	F2E-162B-115	FP-108CX-SI-BW
Rated voltage (V / Hz)	230/50/60	115/50/60	24 ( DC )
Air flow, free blowing	230/265m³/h		
Air flow With export filters	1xFK9925.300:170/205m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.26/0.20	0.51/0.42	0.46
Power (W)	37/33	40/35	1.4
Noise level (dB)	48/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FK9925.300	2023.030	
Remarks	Special voltage needs can call the inquiry of the Company		



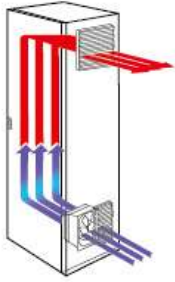
Normally open



Normally close

FK9926

Material	Retardent Rating	IP rating
ABS	UL94-V2	IP55

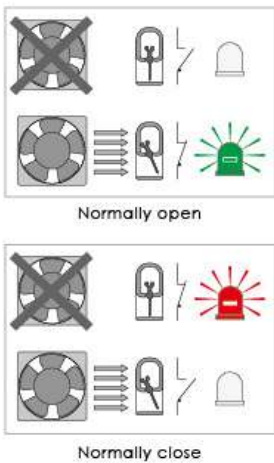


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RAL7035

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Fans and filters FK 9926....	Fans and filters FK 9926.230....	Exit filter FK 9926.300	Fans and filters FK9926.230-260.NO FK9926.230-260.NC	Drawing FK 9926....	Performance FK 9926....

**Technical data**



Model	FK9926.230	FK9926.115
Order number	2023.031	2023.032
Normally open/close	FK9926.230-260.NO/NC	FK9926.115-260.NO/NC
Order number	2023.034/2023.037	2023.035/2023.038
Standard fan	F2E-260B-230	F2E-260B-115
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow, free blowing	500/560m³/h	
Air flow With export filters	1xFK9926.300:360/390m³/h	
Axial Fan	Electric capacitance	
Rated current (A)	0.29/0.33	0.61/0.63
Power (W)	65/77	61/71
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FK9926.300	2023.040
Remarks	Special voltage needs can call the inquiry of the Company	



### INDUSTRIAL AUTOMATION

#### Features

This is ultr-thin type of fan filter with gasket on the back which can reach up to IP55. It is easily install on the cabinet by snap the whole filter onto the pre-cutted hole. The user can also very change the filter mat when it needed.

#### Design

This curved-shape surface is an unique design which is to meet clients needs. It is important to have this new series to fill up the completed range of fan filter.



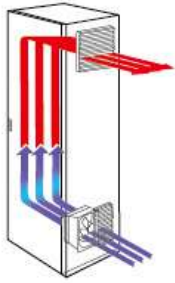
Slide to open the cover





FK8921

Material	Retardent Rating	IP rating
ABS	UL94-V2	IP54

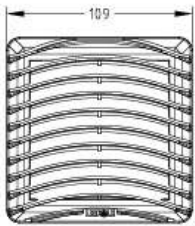


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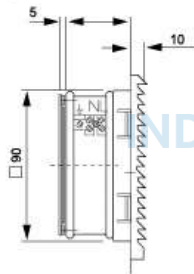


RAL7035

Fans and filters  
FK 8921....



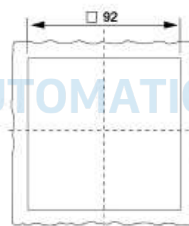
Fans and filters  
FK 8921.230



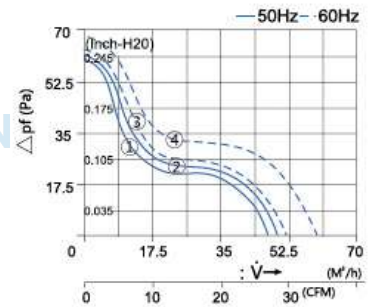
Exit filter  
FK 8921.300



Drawing  
FK 8921....



Performance  
FK 8921....

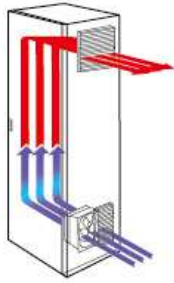


### Technical data

Model	FK8921.230	FK8921.115	FK8921.024
Order number	2024.001	2024.002	2024.003
Standard fan	F2E-92S-230	F2E-92S-115	SP-9225241HS
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing		20/25m³/h	
Air flow With export filters	1xFK8921.300:15/18m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.07/0.06	0.12/0.10	0.18
Power (W)	11/13	11/13	4.3
Noise level (dB)	36/38		
Operating temperature range	-10°C to +55°C		
Exit filter	FK8921.300 2024.004		
Remarks	Special voltage needs can call the inquiry of the Company		

FK8922

Cabinet  
Climate Control

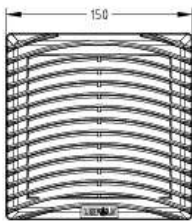


Material	Retardent Rating	IP rating
ABS	UL94-V <sub>2</sub>	IP54

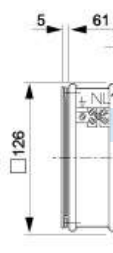


RAL7035

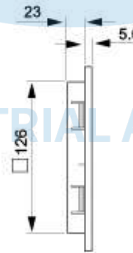
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FK 8922....



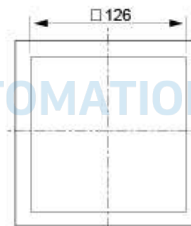
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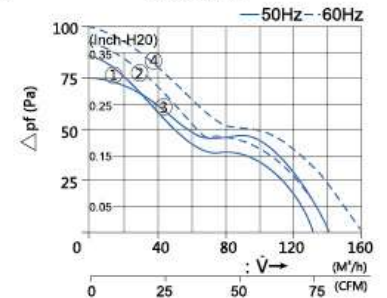
Exit filter  
FK 8922.300



Drawing  
FK 8922....



Performance  
FK 8922....

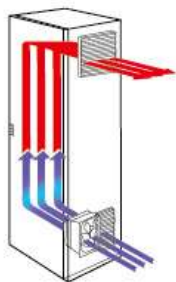


## Technical data

Model	FK8922.230	FK8922.115	FK8922.024
Order number	2024.005	2024.006	2024.007
Standard fan	F2E-120S-230	F2E-120S-115	SP1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC )
Air flow, free blowing		55/66m³/h	
Air flow With export filters		1xFK8922.300:43/50m³/h 2xFK8922.300:48/50m³/h	
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.25/0.23	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK8922.300 2024.008		
Remarks	Special voltage needs can call the inquiry of the Company		

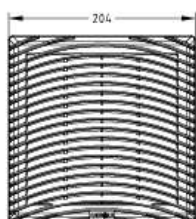
FK8923

Material	Retardent Rating	IP rating
ABS	UL94-V2	IP55

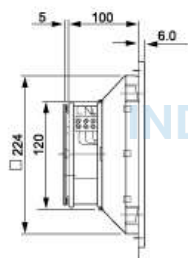


RAL7035

Fans and filters  
FK 8923....



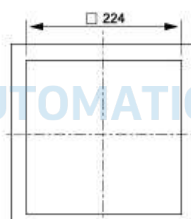
Fans and filters  
FK 8923.230



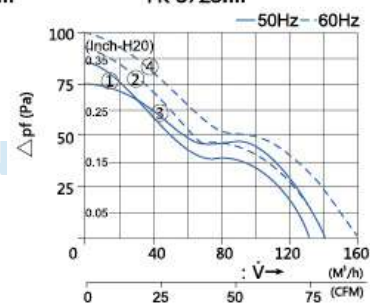
Exit filter  
FK 8923.300



Drawing  
FK 8923....



Performance  
FK 8923....



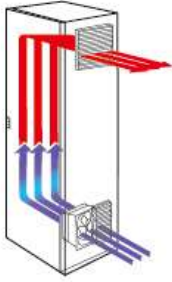
### Technical data

Model	FK8923.230	FK8923.115	FK8923.024
Order number	2024.009	2024.010	2024.011
Standard fan	F2E-120S-230	F2E-120S-115	SP1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC )
Air flow, free blowing		105/120m³/h	
Air flow With export filters		1xFK8923.300:71/82m³/h 2xFK8923.300:85/98m³/h	
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK8923.300 2024.012		
Remarks	Special voltage needs can call the inquiry of the Company		



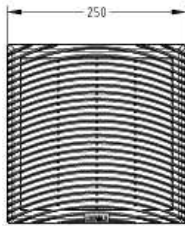
FK8925

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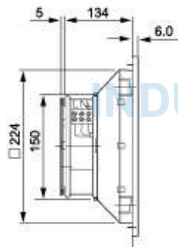


RAL7035

Fans and filters  
FK 8925....



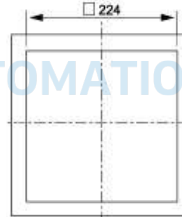
Fans and filters  
FK 8925.230



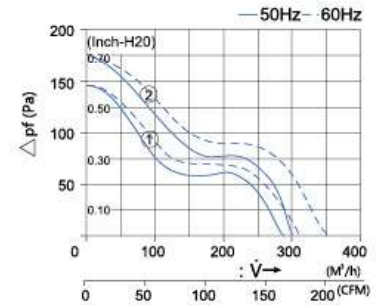
Exit filter  
FK 8925.300



Drawing  
FK 8925....



Performance  
FK 8925....

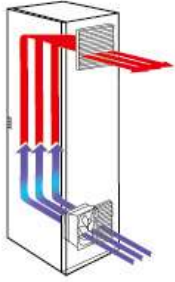


### Technical data

Model	FK8925.230	FK8925.115	FK8925.024
Order number	2024.013	2024.014	2024.015
Standard fan	F2E-150S-230	F2E-150S-115	FP-108CX-SI-BW
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC )
Air flow, free blowing		230/265m³/h	
Air flow With export filters		1xFK8925.300:170/205m³/h 2xFK8925.300:200/230m³/h	
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.25	0.50	0.46
Power (W)	36	36	1.4
Noise level (dB)	58		
Operating temperature range	-10°C to +55°C		
Exit filter	FK8925.300 2024.016		
Remarks	Special voltage needs can call the inquiry of the Company		

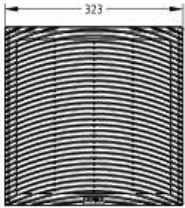
FK8926

Material	Retardent Rating	IP rating
ABS	UL94-V2	IP55

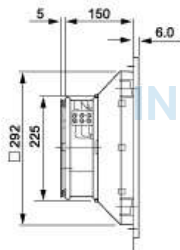


RAL7035

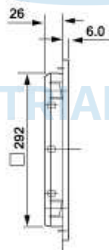
Fans and filters  
FK 8926....



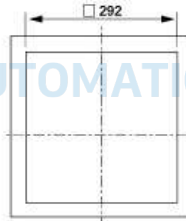
Fans and filters  
FK 8926.230



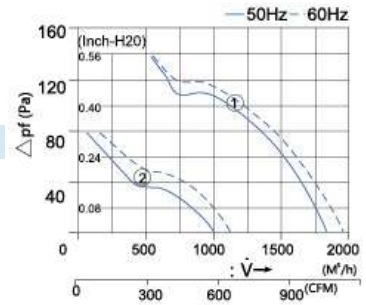
Exit filter  
FK 8926.300



Drawing  
FK 8926....



Performance  
FK 8926....



INDUSTRIAL AUTOMATION

**Technical data**

Model	FK8926.230	FK8926.115
Order number	2024.017	2024.018
Standard fan	F2E-260B-230	F2E-260B-115
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow, free blowing	500/560m³/h	
Air flow With export filters	1xFK8926.300:360/390m³/h 2xFK8926.300:440/495m³/h	
Axial Fan	Electric capacitance	
Rated current (A)	0.29/0.33	0.61/0.63
Power (W)	65/77	61/71
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FK8926.300 2024.019	
Remarks	Special voltage needs can call the inquiry of the Company	



### INDUSTRIAL AUTOMATION

#### Features

This is ultr-thin type of fan filter with gasket on the back which can reach up to IP55. It is easily install on the cabinet by snap the whole filter onto the pre-cutted hole. The user can also very change the filter mat when it needed.

#### Design

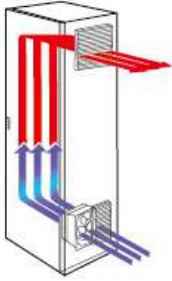
FK55 series comply with the colour RAL7032 and RAL7035. The rang of filters are from 150mm to 325mm. The air flow is bigger than normal which up to 560m<sup>3</sup>/h.





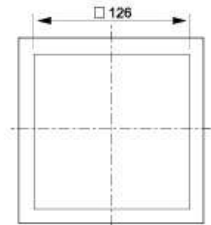
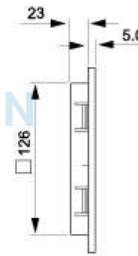
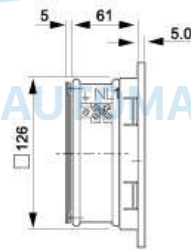
**FK5522**

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



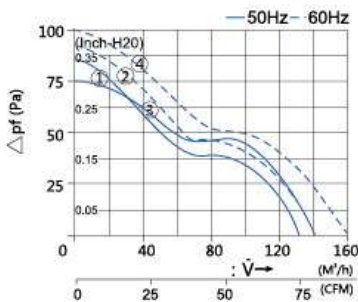
Available colors: RAL7035 RAL7032

Fans and filters FK 5522....	Fans and filters FK 5522.230	Exit filter FK 5522.300	Drawing FK 5522....
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INDUSTRIAL AUTOMATION

**Performance  
FK 5522....**



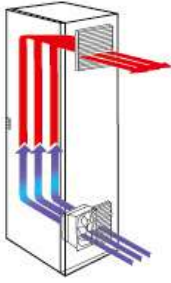
**Technical data**

Model	<b>FK5522.230</b>	<b>FK5522.115</b>	<b>FK5522.024</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2011.001/2011.016	2011.002/2011.017	2011.003/2011.018
Standard fan	<b>F2E-120S-230</b>	<b>F2E-120S-115</b>	<b>SP1203824H</b>
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	55/66m³/h		
Air flow With export filters	1xFK5522.300:43/50m³/h 2xFK5522.300:48/50m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.3
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK5522.300 RAL7032(2011.004)/RAL7035(2011.019)		
Remarks	Special voltage needs can call the inquiry of the Company		

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FK5523

Cabinet  
Climate Control



Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



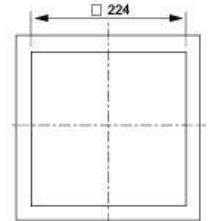
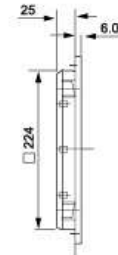
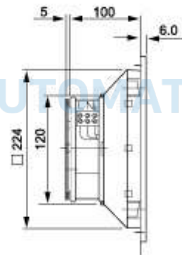
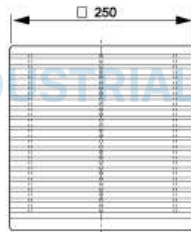
Available colors: RAL7035   
RAL7032

Fans and filters  
FK 5523....

Fans and filters  
FK 5523.230

Exit filter  
FK 5523.300  
FK 5525.300

Drawing  
FK 5523....

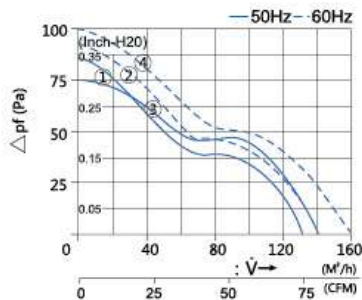


INDUSTRIAL AUTOMATION

### Technical data

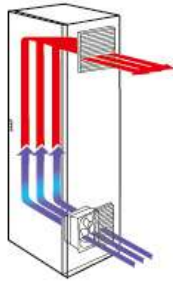
Model	FK5523.230	FK5523.115	FK5523.024
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2011.005/2011.020	2011.006/2011.021	2011.007/2011.022
Standard fan	F2E-120S-230	F2E-120S-115	SP1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	105/120m³/h		
Air flow With export filters	1xFK5523.300:71/82m³/h 2xFK5523.300:85/98m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.30
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK5523.300 RAL7032(2011.008)/RAL7035(2011.023)		
Remarks	Special voltage needs can call the inquiry of the Company		

### Performance FK 5523 ....



FK5525

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



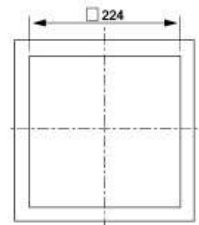
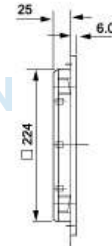
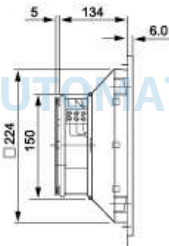
Available colors: RAL7035   
RAL7032

Fans and filters  
FK 5525....

Fans and filters  
FK 5525.230

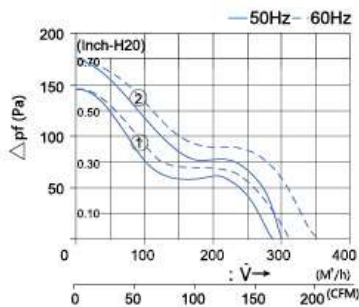
Exit filter  
FK 5525.300

Drawing  
FK 5525....



INDUSTRIAL AUTOMATION

### Performance FK 5525....



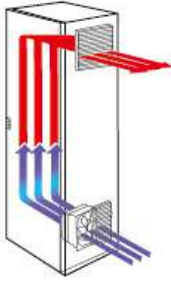
### Technical data

Model	FK5525.230	FK5525.115	FK5525.024
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2011.009/2011.024	2011.010/2011.025	2011.011/2011.026
Standard fan	F2E-150S-230	F2E-150S-115	FP-108CX-SI-BW
Rated voltage (V / Hz)	230/50/60	115/50/60	24
Air flow, free blowing	230/265m³/h		
Air flow With export filters	1xFK5525.300:170/205m³/h 2xFK5525.300:200/230m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.25	0.50	0.46
Power (W)	36	36	1.4
Noise level (dB)	58		
Operating temperature range	-10°C to +55°C		
Exit filter	FK5525.300 RAL7032(2011.012)/RAL7035(2011.0027)		
Remarks	Special voltage needs can call the inquiry of the Company		



FK5526

Cabinet Climate Control



Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



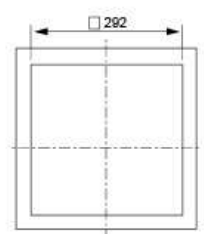
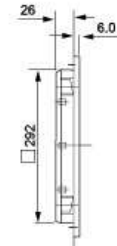
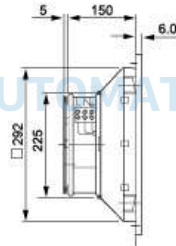
Available colors: RAL7035   
RAL7032

Fans and filters  
FK 5526....

Fans and filters  
FK 5526.230

Exit filter  
FK 5526.300

Drawing  
FK 5526....

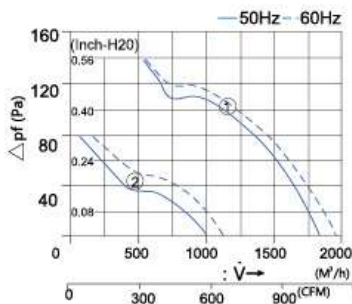


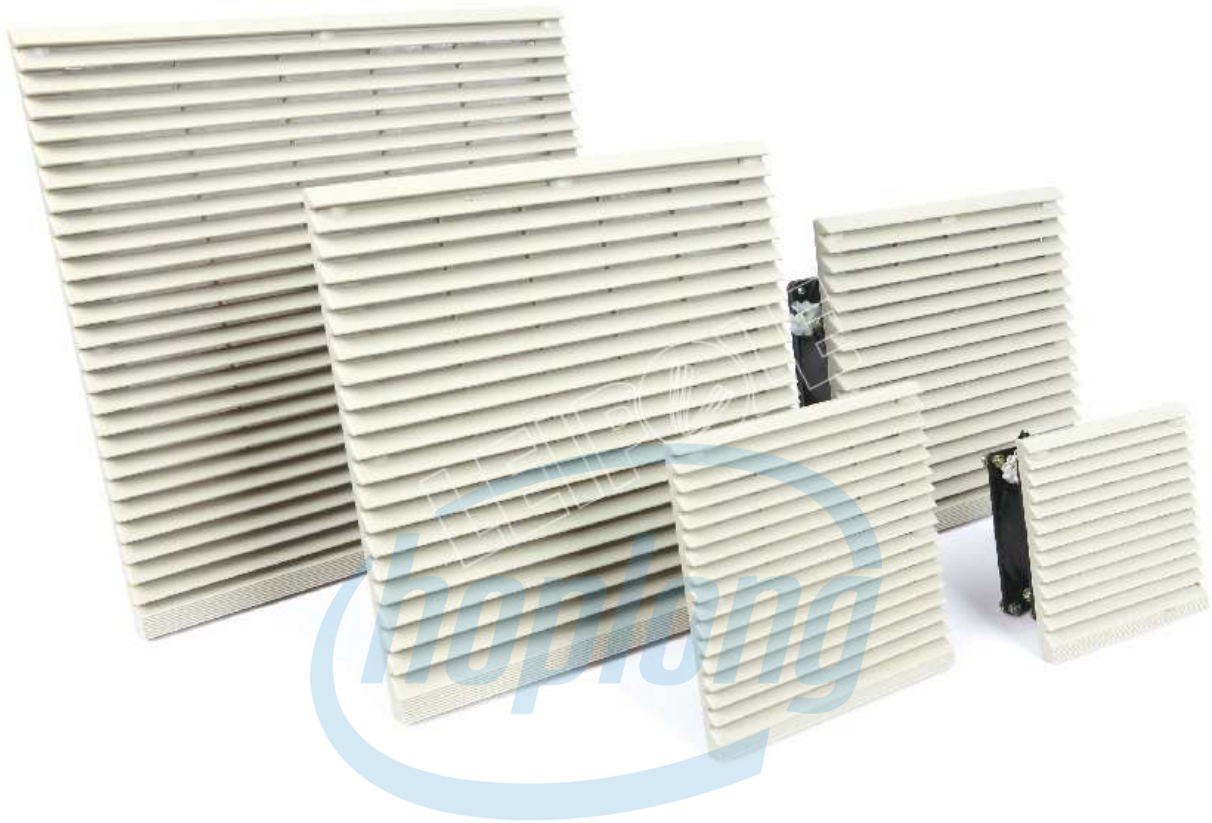
INDUSTRIAL AUTOMATION

### Technical data

Model	<b>FK5526.230</b>	<b>FK5526.115</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2011.013/2011.028	2011.014/2011.029
Standard fan	<b>F2E-260B-230</b>	<b>F2E-260B-115</b>
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow, free blowing	500/560m <sup>3</sup> /h	
Air flow With export filters	1xFK5526.300:360/390m <sup>3</sup> /h 2xFK5526.300:440/495m <sup>3</sup> /h	
Axial Fan	Electric capacitance	
Rated current (A)	0.29/0.33	0.61/0.63
Power (W)	65/77	61/71
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FK5526.300 RAL7032(2011.015)/RAL7035(2011.030)	
Remarks	Special voltage needs can call the inquiry of the Company	

### Performance FK 5526....





## INDUSTRIAL AUTOMATION

### Features

The biggest advantage of FK66 series is easy to install, economic, and popular shape for customer to use. The filter mats are easily to change only need to snap out the cover.

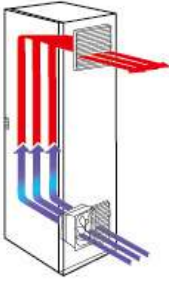
### Design

FK66 series comply with the colour RAL7032 and RAL7035. The range of filters are from 117mm to 323mm. The air flow is up to 560m<sup>3</sup>/h.



FK6621

Cabinet Climate Control



Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP43



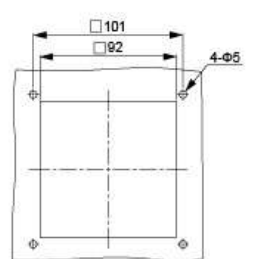
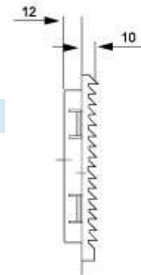
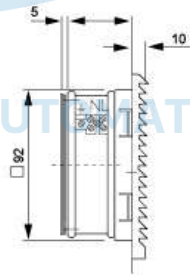
Available colors: RAL7035   
RAL7032

Fans and filters  
FK 6621....

Fans and filters  
FK 6621.230

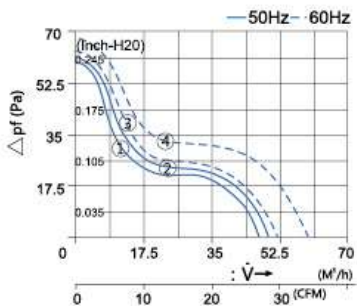
Exit filter  
FK 6621.300

Drawing  
FK 6621....



INDUSTRIAL AUTOMATION

**Performance**  
FK 6621....



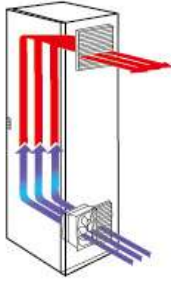
**Technical data**

Model	<b>FK6621.230</b>	<b>FK6621.115</b>	<b>FK6621.024</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2012.005/2012.036	2012.006/2012.037	2012.007/2012.038
Standard fan	<b>F2E-92S-230</b>	<b>F2E-92S-115</b>	<b>SP-9225241HS</b>
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC )
Air flow, free blowing	20/25m³/h		
Air flow With export filters	1xFK6621.300:15/18m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.07/0.06	0.12/0.10	0.18
Power (W)	11/13	11/13	4.3
Noise level (dB)	36/38		
Operating temperature range	-10°C to +55°C		
Exit filter	FK6621.300 RAL7032(2012.008)/RAL7035(2012.039)		
Remarks	Special voltage needs can call the inquiry of the Company		

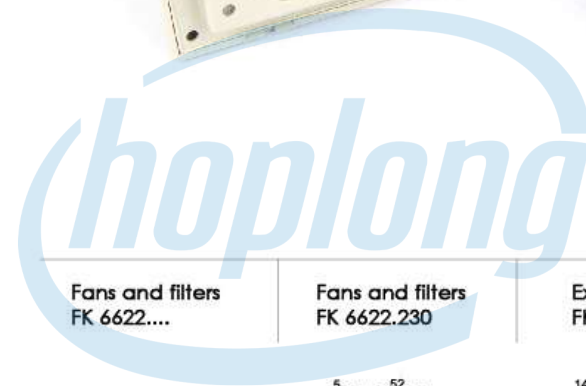


FK6622

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP43



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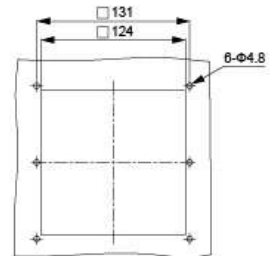
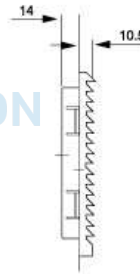
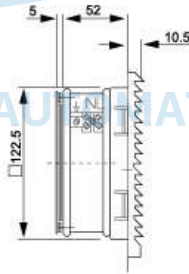
Available colors: RAL7035 RAL7032

Fans and filters  
FK 6622....

Fans and filters  
FK 6622.230

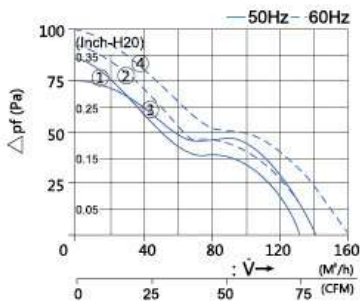
Exit filter  
FK 6622.300

Drawing  
FK 6622....



INDUSTRIAL AUTOMATION

**Performance**  
FK 6622....

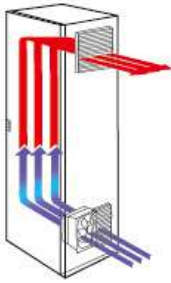


**Technical data**

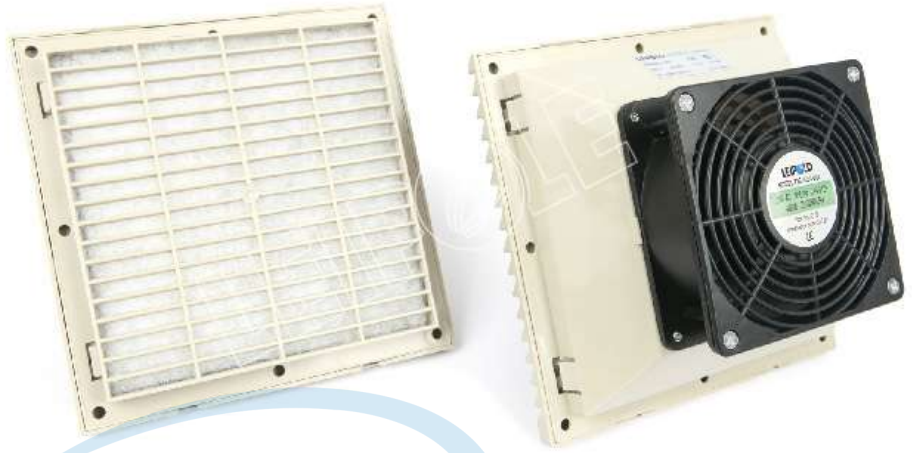
Model	<b>FK6622.230</b>	<b>FK6622.115</b>	<b>FK6622.024</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2012.009/2012.040	2012.010/2012.041	2012.011/2012.042
Standard fan	<b>F2E-120S-230</b>	<b>F2E-120S-115</b>	<b>SP1203824H</b>
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC )
Air flow, free blowing		55/66m³/h	
Air flow With export filters		1xFK6622.300:43/50m³/h 2xFK6622.300:48/55m³/h	
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.30
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK6622.300 RAL7032(2012.012)/RAL7035(2012.043)		
Remarks	Special voltage needs can call the inquiry of the Company		

FK6623

Cabinet  
Climate Control



Certification	Material	Retardent Rating	IP rating
CE CCC UL RoHS	ABS	UL94-V2	IP43



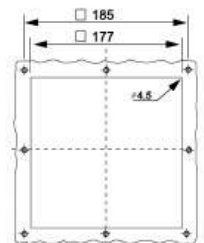
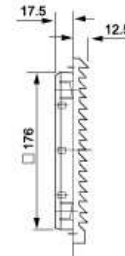
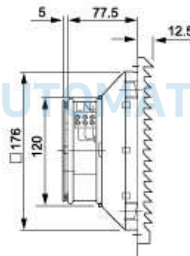
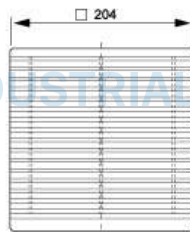
Available colors: RAL7035 ●  
RAL7032 ●

Fans and filters  
FK 6623....

Fans and filters  
FK 6623.230

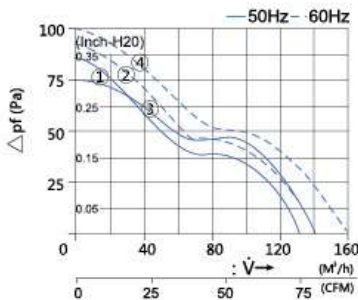
Exit filter  
FK 6623.300

Drawing  
FK 6623....



INDUSTRIAL AUTOMATION

**Performance**  
FK 6623....

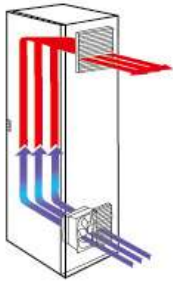


**Technical data**

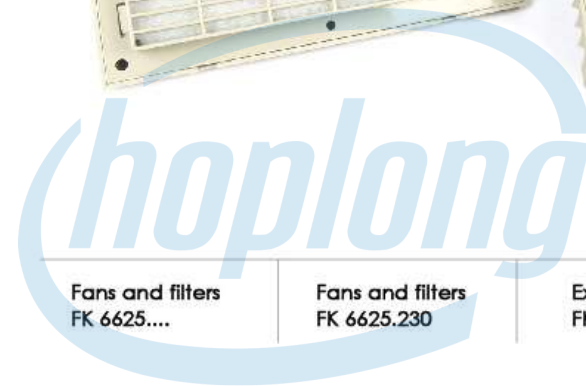
Model	FK6623.230	FK6623.115	FK6623.024
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2012.013/2012.044	2012.014/2012.045	2012.015/2012.046
Standard fan	F2E-120S-230	F2E-120S-115	SP-1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	105/120m³/h		
Air flow With export filters	1xFK6623.300:71/82m³/h 2xFK6623.300:85/98m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.30
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK6623.300 RAL7032(2012.016)/RAL7035(2012.047)		
Remarks	Special voltage needs can call the inquiry of the Company		

FK6625

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP43

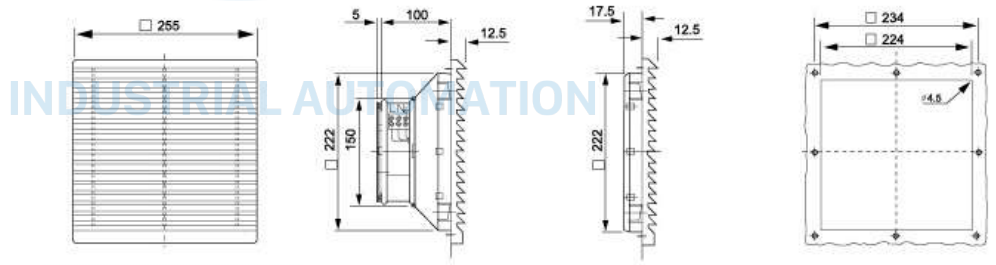


LEIPOLE

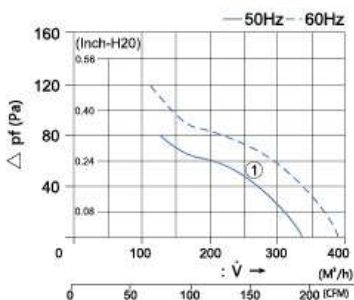


Available colors: RAL7035   
RAL7032

Fans and filters FK 6625....	Fans and filters FK 6625.230	Exit filter FK 6625.300	Drawing FK 6625....
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**Performance**  
FK6625....



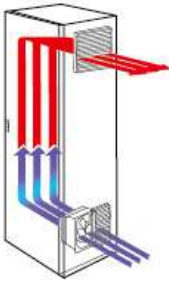
**Technical data**

Model	<b>FK6625.230</b>	<b>FK6625.115</b>	<b>FK6625.024</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2012.017/2012.048	2012.018/2012.049	2012.019/2012.050
Standard fan	<b>F2E-162B-230</b>	<b>F2E-162B-115</b>	<b>FP-108CX-SI-BW</b>
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC )
Air flow, free blowing	230/265m³/h		
Air flow With export filters	1xFK6625.300:170/205m³/h 2xFK6625.300:200/230m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.26/0.20	0.51/0.42	0.46
Power (W)	37/33	40/35	14
Noise level (dB)	48/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FK6625.300 RAL7032(2012.020)/RAL7035(2012.051)		
Remarks	Special voltage needs can call the inquiry of the Company		



FK6626

Cabinet  
Climate Control



Certification	Material	Retardent Rating	IP rating
CE CCC UL RoHS	ABS	UL94-V2	IP43



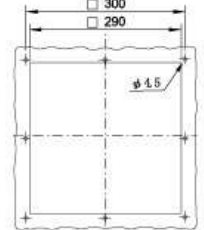
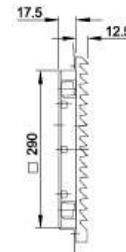
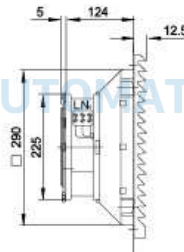
Available colors: RAL7035 ◆  
RAL7032 ◆

Fans and filters  
FK 6626....

Fans and filters  
FK 6626.230

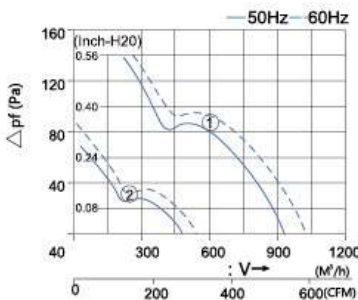
Exit filter  
FK 6626.300

Drawing  
FK 6626....



INDUSTRIAL AUTOMATION

**Performance**  
FK6626 ....



**Technical data**

Model	<b>FK6626.230</b>	<b>FK6626.115</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2012.021/2012.052	2012.022/2012.053
Standard fan	<b>F2E-260B-230</b>	<b>F2E-260B-115</b>
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow, free blowing	500/560m³/h	
Air flow With export filters	1xFK6626.230:360/390m³/h 2xFK6626.230:440/495m³/h	
Axial Fan	Electric capacitance	
Rated current (A)	0.29/0.33	0.61/0.63
Power (W)	65/77	61/71
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FK6626.300 RAL7032(2012.023)/RAL7035(2012.054)	
Remarks	Special voltage needs can call the inquiry of the Company	

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP43

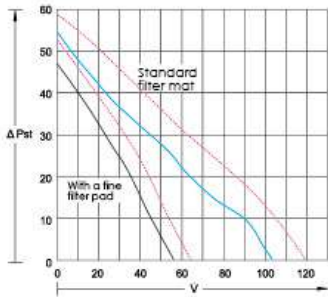


### Features

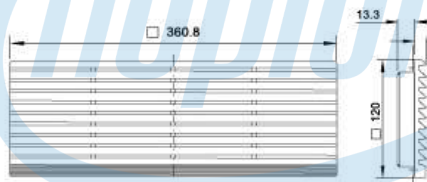
This design can be fitted with three fans with the size of 120mm\*120mm which have more power.

Available colors	Order number
RAL7035	2012.055
RAL7032	2012.024

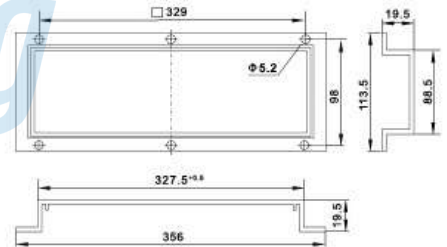
### Performance FK6627.300 ....



Exit filter only  
FK 6627.300



Drawing  
FK 6627.300



## INDUSTRIAL AUTOMATION

### FK 6628 Exit Filter only

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP43

### FK6628

Economic type of FK66 series. This filter can be used with the fans below. The filter mate is used to prevent dust particles 10 microns or more.

Packing: 2 pcs/pack

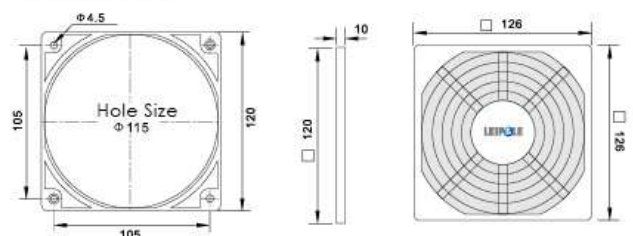


	Model	Order number	Model	Order number	Model	Order number	Model	Order number
RAL7032	FK6628.230	2012.030	FK6628.115	2012.029	FK6628.024	2012.028	FK6628.300	2012.025
RAL7035		2012.061		2012.060		2012.063		2012.056
Standard fan	F2E-120S-230		F2E-120B-230		SP1203824H			
Rated current (A)	0.12/0.10		0.24/0.23		0.3			
Power (W)	19/14		18/15		3.5			

Available colors  
RAL7035   
RAL7032



### FK6628.300





## INDUSTRIAL AUTOMATION

### Features

This is the most common type for the users. The shape is the same as FK66 series but with gasket on the back which improve the protection class to IP55 according to the EN60529/10.91.

### Design

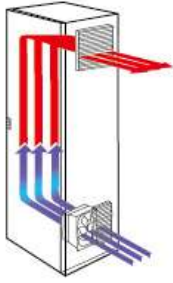
FKL66 series comply with the colour RAL7032 and RAL7035. The rang of filters are from 117mm to 323mm. The air flow is bigger than normal which up to 1350m<sup>3</sup>/h.





**FKL6621**

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



**LEIPOLE**



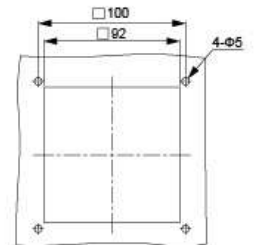
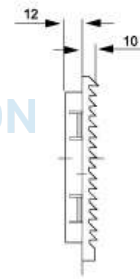
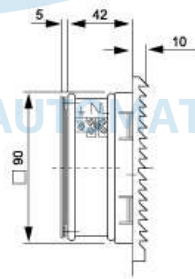
Available colors: RAL7035   
RAL7032

Fans and filters  
FKL 6621....

Fans and filters  
FKL 6621.230

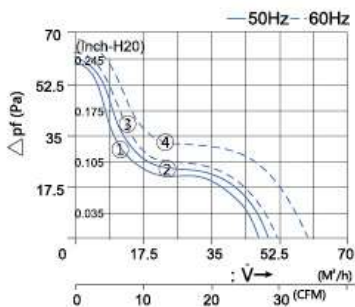
Exit filter  
FKL 6621.300

Drawing  
FKL 6621....



INDUSTRIAL AUTOMATION

**Performance**  
FKL 6621....

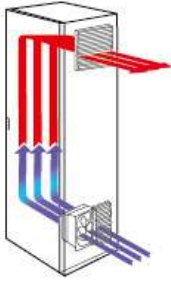


**Technical data**

Model	<b>FKL6621.230</b>	<b>FKL6621.115</b>	<b>FKL6621.024</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2013.001/2013.022	2013.002/2013.023	2013.003/2013.024
Standard fan	<b>F2E-92S-230</b>	<b>F2E-92S-115</b>	<b>SP922524HS</b>
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	20/25m³/h		
Air flow With export filters	1xFKL6621.300:15/18m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.07/0.06	0.12/0.10	0.18
Power (W)	11/13	11/13	24
Noise level (dB)	36/38		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL6621.300 RAL7032(2013.004)/RAL7035(2013.025)		
Remarks	Special voltage needs can call the inquiry of the Company		

FKL6622

Cabinet Climate Control



Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



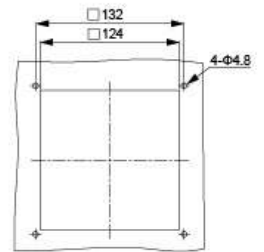
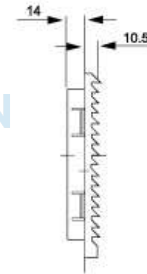
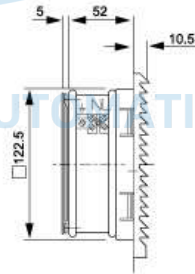
Available colors: RAL7035 RAL7032

Fans and filters  
FKL 6622....

Fans and filters  
FKL 6622.230

Exit filter  
FKL 6622.300

Drawing  
FKL 6622....

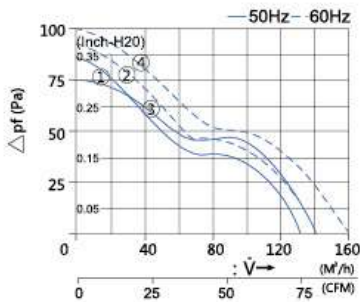


INDUSTRIAL AUTOMATION

### Technical data

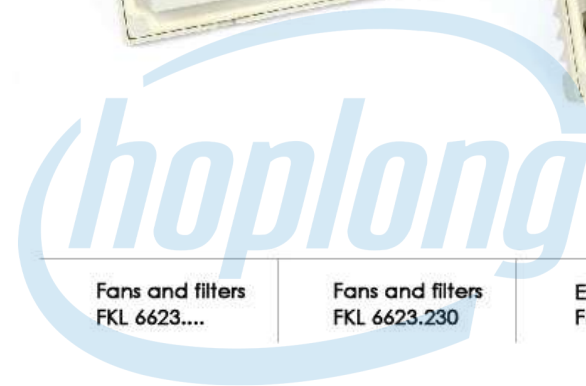
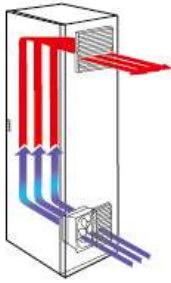
Model	FKL6622.230	FKL6622.115	FKL6622.024
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2013.005/2013.026	2013.006/2013.027	2013.007/2013.028
Standard fan	F2E-120S-230	F2E-120S-115	SP1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	55/66m³/h		
Air flow With export filters	1xFKL6622.300:43/50m³/h 2xFKL6622.300:48/55m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.30
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL6622.300 RAL7032(2013.008)/RAL7035(2013.029)		
Remarks	Special voltage needs can call the inquiry of the Company		

### Performance FKL 6622....



FKL6623

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



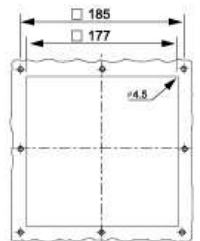
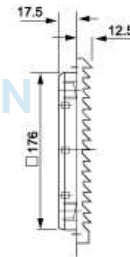
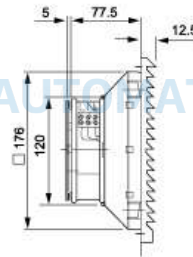
Available colors: RAL7035   
RAL7032

Fans and filters  
FKL 6623....

Fans and filters  
FKL 6623.230

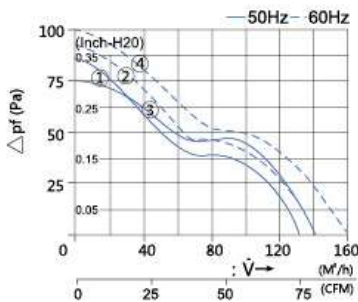
Exit filter  
FKL 6623.300

Drawing  
FKL 6623....



INDUSTRIAL AUTOMATION

**Performance**  
FKL 6623....



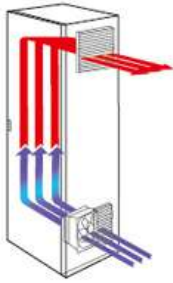
**Technical data**

Model	FKL6623.230	FKL6623.115	FKL6623.024
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2013.009/2013.030	2013.010/2013.031	2013.011/2013.032
Standard fan	F2E-120S-230	F2E-120S-115	SP1203824H
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC )
Air flow, free blowing	105/120m³/h		
Air flow With export filters	1xFKL6623.300:71/82m³/h 2xFKL6623.300:85/98m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.30
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL6623.300 RAL7032(2013.012)/RAL7035(2013.033)		
Remarks	Special voltage needs can call the inquiry of the Company		



FKL6625

Cabinet Climate Control

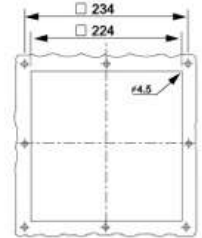
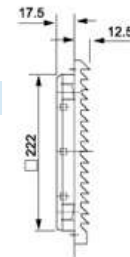
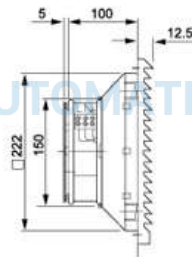


Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



Available colors: RAL7035   
RAL7032

Fans and filters FKL 6625....	Fans and filters FKL 6625.230	Exit filter FKL 6625.300	Drawing FKL 6625....
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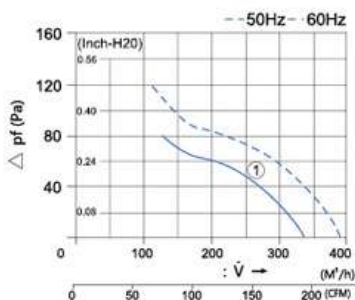


INDUSTRIAL AUTOMATION

### Technical data

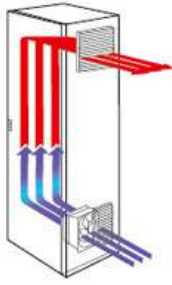
Model	FKL6625.230	FKL6625.115	FKL6625.024
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2013.034/2013.013	2013.035/2013.014	2013.036/2013.015
Standard fan	F2E-162B-230	F2E-162B-115	FP-108CX-SI-BW
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	230/265m <sup>3</sup> /h		
Air flow With export filters	1xFKL6625.300:170/205m <sup>3</sup> /h 2xFKL6625.300:200/230m <sup>3</sup> /h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.26/0.20	0.51/0.42	0.46
Power (W)	37/33	40/35	14
Noise level (dB)	48/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FKL6625.300 RAL7032(2013.037)/RAL7035(2013.016)		
Remarks	Special voltage needs can call the inquiry of the Company		

### Performance FKL 6625....



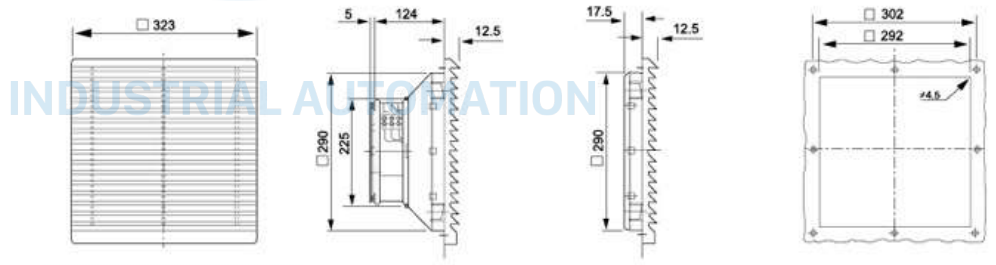
FKL6626

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



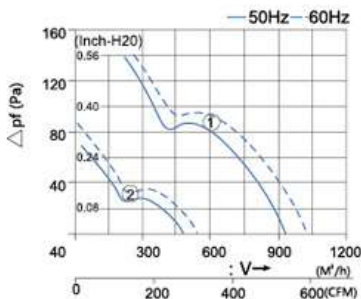
Available colors: RAL7035   
RAL7032

Fans and filters FKL 6626....	Fans and filters FKL 6626.230	Exit filter FKL 6626.300	Drawing FKL 6626....
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INDUSTRIAL AUTOMATION

**Performance**  
FKL 6626....

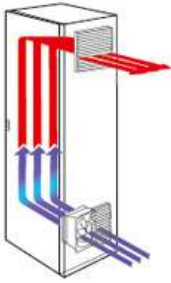


**Technical data**

Model	<b>FKL6626.230</b>	<b>FKL6626.115</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2013.038/2013.017	2013.039/2013.018
Standard fan	<b>F2E-260B-230</b>	<b>F2E-260B-115</b>
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow, free blowing	500/560m <sup>3</sup> /h	
Air flow With export filters	1xFKL6626.300:360/390m <sup>3</sup> /h 2xFKL6626.300:440/495m <sup>3</sup> /h	
Axial Fan	Electric capacitance	
Rated current (A)	0.29/0.33	0.61/0.63
Power (W)	65/77	61/71
Noise level (dB)	62/64	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL6626.300 RAL7032(2013.040)/RAL7035(2013.019)	
Remarks	Special voltage needs can call the inquiry of the Company	

**FKL6626-D**

Cabinet  
Climate Control

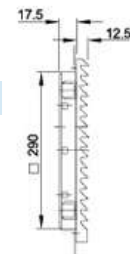
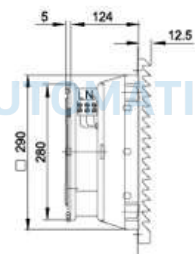


Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



Available colors: RAL7035 RAL7032

Fans and filters FKL 6626....	Fans and filters FKL 6626.230-D	Exit filter FKL 6626.300	Drawing FKL 6626....
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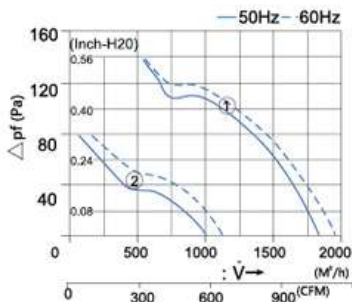


INDUSTRIAL AUTOMATION

**Technical data**

Model	<b>FKL6626.230-D</b>	<b>FKL6626.115-D</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2013.041/2013.020	2013.042/2013.021
Standard fan	<b>F2E-320B-230</b>	<b>F2E-320B-115</b>
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow, free blowing	1200/1350m <sup>3</sup> /h	
Air flow With export filters	1xFKL6626.300:769/890m <sup>3</sup> /h 2xFKL6626.300:910/1000m <sup>3</sup> /h	
Axial Fan	bectric capacitance	
Rated current (A)	0.47/0.59	0.62/0.65
Power (W)	104/135	60/70
Noise level (dB)	68/70	
Operating temperature range	-10°C to +55°C	
Exit filter	FKL6626.300 RAL7032(2013.040)/RAL7035(2013.019)	
Remarks	Special voltage needs can call the inquiry of the Company	

**Performance  
FKL 6626....**







### INDUSTRIAL AUTOMATION

#### Features

This is ultr-thin type of fan filter with gasket on the back which can reach up to IP55. It is easily install on the cabinet by snap the whole filter onto the pre-cutted hole. The user can also very change the filter mat when it needed.

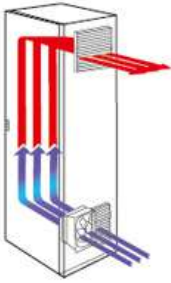
#### Design

FK77 series comply with the colour RAL7032 and RAL7035. The rang of filters are from 150mm to 325mm. The air flow is bigger than normal which up to 1050m<sup>3</sup>/h.



FK7721

Cabinet  
Climate Control



Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



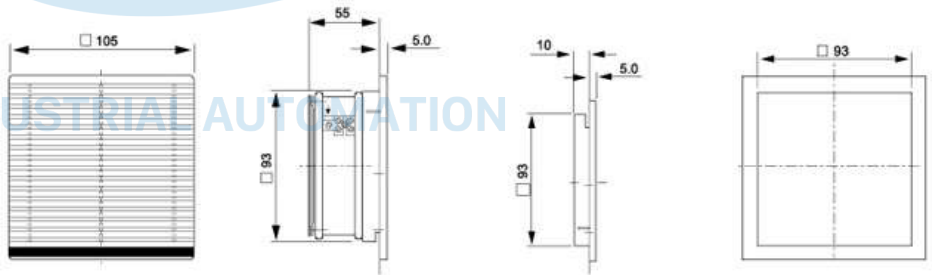
Available colors: RAL7035   
 RAL7032

Fans and filters  
FK 7721....

Fans and filters  
FK 7721.230

Exit filter  
FK 7721.300

Drawing  
FK 7721....

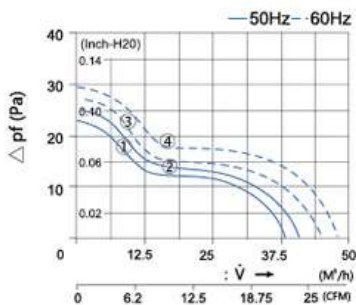


INDUSTRIAL AUTOMATION

### Technical data

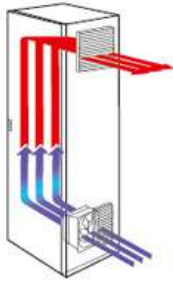
Model	<b>FK7721.230</b>	<b>FK7721.115</b>	<b>FK7721.024</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2014.001/2014.016	2014.002/2014.017	2014.003/2014.018
Standard fan	<b>F2E-80B-230</b>	<b>F2E-80B-115</b>	<b>BP802524H</b>
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	20/25m <sup>3</sup> /h		
Air flow With export filters	1xFK7721.300:15/18m <sup>3</sup> /h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.08/0.07	0.16/0.14	0.21
Power (W)	13/11	13/11	4.3
Noise level (dB)	36/38		
Operating temperature range	-10°C to +55°C		
Exit filter	FK7721.300 RAL7032(2014.004)/RAL7035(2014.019)		
Remarks	Special voltage needs can call the inquiry of the Company		

### Performance FK 7721....



FK7722

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



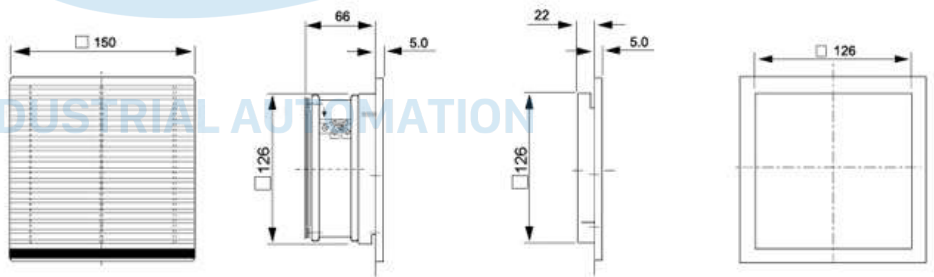
Available colors: RAL7035   
RAL7032

Fans and filters  
FK 7722....

Fans and filters  
FK 7722.230

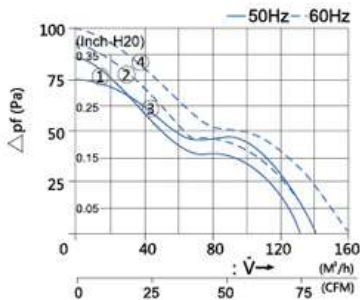
Exit filter  
FK 7722.300

Drawing  
FK 7722....



INDUSTRIAL AUTOMATION

**Performance  
FK 7722....**



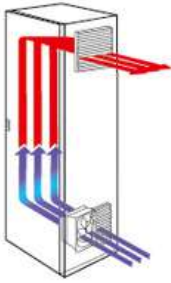
**Technical data**

Model	<b>FK7722.230</b>	<b>FK7722.115</b>	<b>FK7722.024</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2014.005/2014.020	2014.006/2014.021	2014.007/2014.022
Standard fan	<b>F2E-120S-230</b>	<b>F2E-120S-115</b>	<b>SP1203824H</b>
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	55/66m³/h		
Air flow With export filters	1xFK7722.300:43/50m³/h 2xFK7722.300:48/55m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.12/0.10	0.24/0.23	0.30
Power (W)	19/14	18/15	3.5
Noise level (dB)	43/50		
Operating temperature range	-10°C to +55°C		
Exit filter	FK7722.300 RAL7032(2014.008)/RAL7035(2014.023)		
Remarks	Special voltage needs can call the inquiry of the Company		



FK7725

Cabinet  
Climate Control



Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



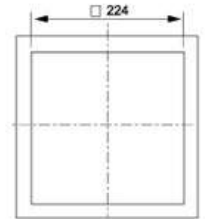
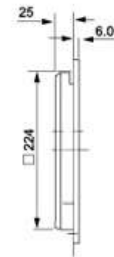
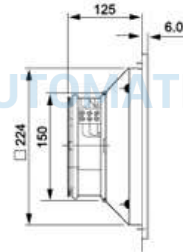
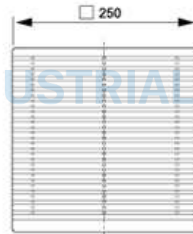
Available colors: RAL7035   
RAL7032

Fans and filters  
FK 7725....

Fans and filters  
FK 7725.230

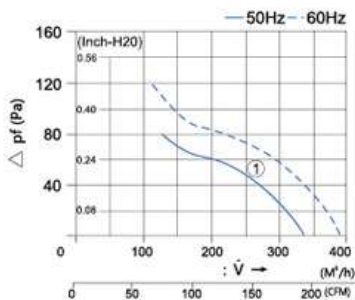
Exit filter  
FK 7725.300

Drawing  
FK 7725....



INDUSTRIAL AUTOMATION

### Performance FK 7725....

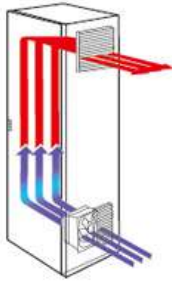


### Technical data

Model	FK7725.230	FK7725.115	FK7725.024
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2014.009/2014.024	2014.010/2014.025	2014.011/2014.026
Standard fan	F2E-162B-230	F2E-162B-115	FP-108CX-SI-BW
Rated voltage (V / Hz)	230/50/60	115/50/60	24(DC)
Air flow, free blowing	230/265m³/h		
Air flow With export filters	1xFK7725.300:170/205m³/h 2xFK7725.300:200/230m³/h		
Axial Fan	Automatically shield pole motor		DC Motor
Rated current (A)	0.26/0.20	0.51/0.42	0.46
Power (W)	37/33	40/35	14
Noise level (dB)	48/52		
Operating temperature range	-10°C to +55°C		
Exit filter	FK7725.300 RAL7032(2014.012)/RAL7035(2014.027)		
Remarks	Special voltage needs can call the inquiry of the Company		

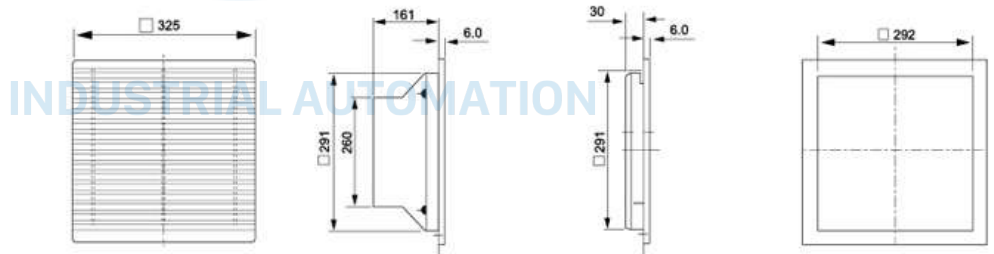
FK7726

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



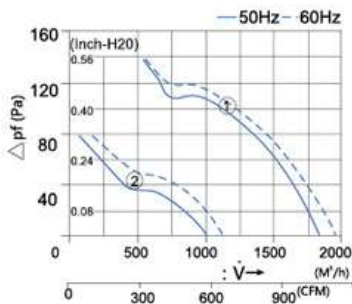
Available colors: RAL7035   
RAL7032

Fans and filters FK 7726....	Fans and filters FK 7726.230	Exit filter FK 7726.300	Drawing FK 7726....
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INDUSTRIAL AUTOMATION

### Performance FK 7726....



### Technical data

Model	FK7726.230	FK7726.115
Available colors	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2014.013/2014.028	2014.014/2014.029
Standard fan	FJ2E-250 A	FJ2E-250 A
Rated voltage (V / Hz)	230/50/60	115/50/60
Air flow, free blowing	1020/1050m³/h	
Air flow With export filters	1xFK7726.230:550/580m³/h 2xFK7726.230:620/680m³/h	
Axial Fan	bectric capacitance	
Rated current (A)	0.55	1.40/1.70
Power (W)	120	135/180
Noise level (dB)	68/71	
Operating temperature range	-10°C to +55°C	
Exit filter	FK7726.300 RAL7032(2014.015)/RAL7035(2014.030)	
Remarks	Special voltage needs can call the inquiry of the Company	



### INDUSTRIAL AUTOMATION

#### Features

This is a new generation of ultra-thin filter ventilator. Users can only purchase exit filters to match with different size of fans which give them more variety of options to choose.

#### Design

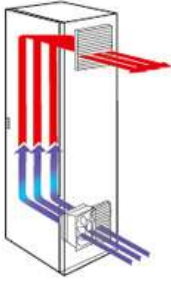
FB98 series comply with the colour RAL7032 and RAL7035. The rang of filters are from 148mm to 320mm. The air flow is up to 1020m<sup>3</sup>/h.





**FB9803**

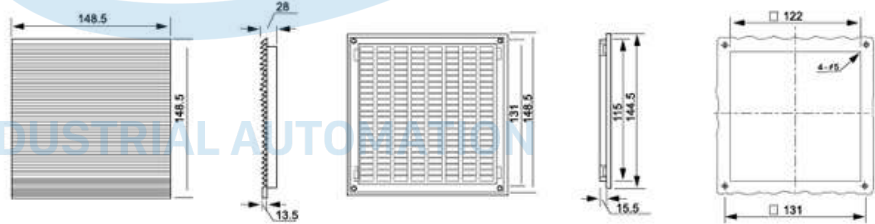
Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



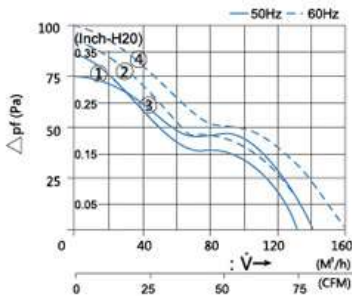
Available colors: RAL7035   
RAL7032

Dimensions

INDUSTRIAL AUTOMATION



**Performance**  
FB 9803....



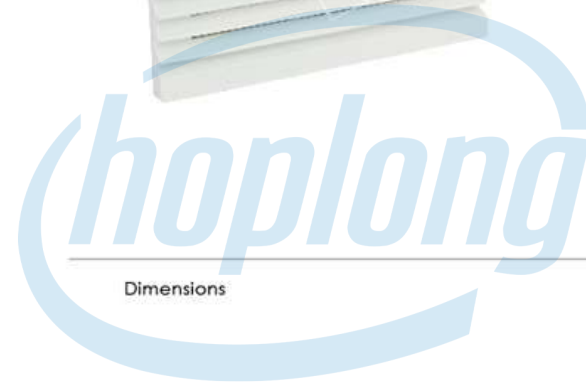
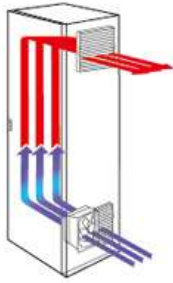
**Technical data**

Model/Standard fan	<b>FB9803/120S-230</b>	<b>FB9803/120B-230</b>	<b>FB9803/120S-115</b>	<b>FB9803/120B-115</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2016.006/2016.037	2016.007/2016.038	2016.008/2016.039	2016.009/2016.040
Rated voltage (V / Hz)	230/50/60		115/50/60	
Air flow, free blowing	105/120m³/h			
Air flow With export filters	1xFB9803:71/82m³/h 2xFB9803:85/98m³/h			
Axial Fan	Automatically shield pole motor			
Rated current (A)	0.12/0.10		0.25/0.23	
Power (W)	19/1		18/15	
Noise level (dB)	43/50			
Operating temperature range	-10°C to +55°C			
Exit filter	FK9803 RAL7032(2016.001)/RAL7035(2016.032)			
Remarks	Special voltage needs can call the inquiry of the Company			

**FB9804**

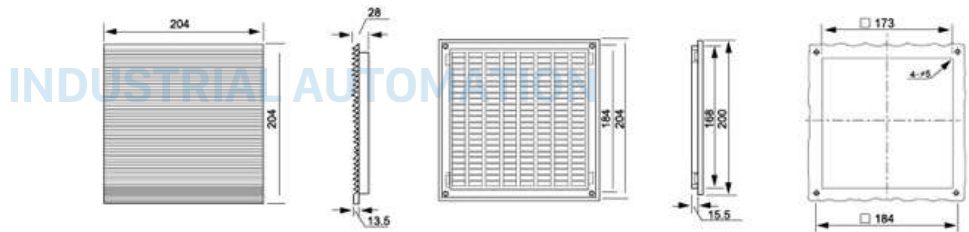
Cabinet  
Climate Control

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54

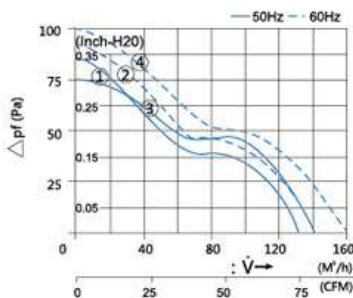


Available colors: RAL7035   
RAL7032

Dimensions



Performance  
FB 9804....

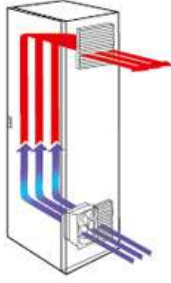


### Technical data

Model/Standard fan	<b>FB9804/120S-230</b> <b>FB9804/120B-230</b>	<b>FB9804/150S-230</b> <b>FB9804/150B-230</b>	<b>FB9804/120S-115</b> <b>FB9804/120B-115</b>	<b>FB9804/150S-115</b> <b>FB9804/150B-115</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2016.010/2016.041 2016.011/2016.042	2016.012/2016.043 2016.013/2016.044	2016.014/2016.045 2016.015/2016.046	2016.016/2016.047 2016.017/2016.048
Rated voltage (V / Hz)	230/50/60		115/50/60	
Air flow, free blowing	120/128m³/h			
Air flow With export filters	1xFB9804:71/82m³/h 2xFB9804:85/98m³/h			
Axial Fan	Automatically shield pole motor			
Rated current (A)	0.12/0.10	0.25	0.24/0.23	0.50
Power (W)	14/10	36	19/15	36
Noise level (dB)	43/50	58	43/50	58
Operating temperature range	-10°C to +55°C			
Exit filter	FK9804 RAL7032(2016.002)/RAL7035(2016.033)			
Remarks	Special voltage needs can call the inquiry of the Company			

**FB9805**

Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54

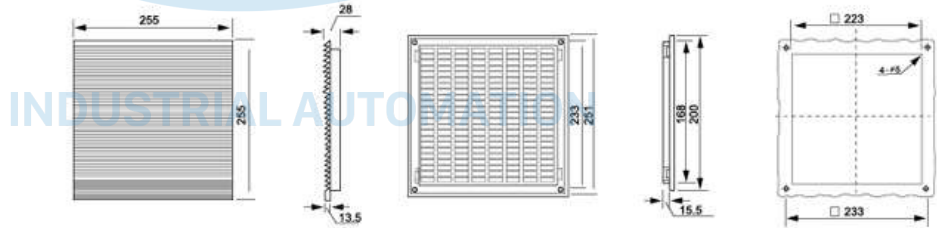


**LEIPOLE**

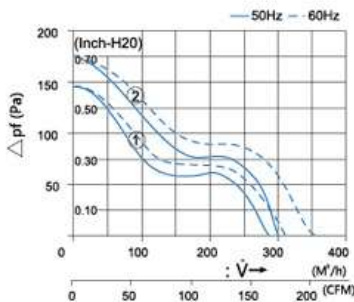


Available colors: RAL7035   
RAL7032

**Dimensions**



**Performance**  
FB 9805....



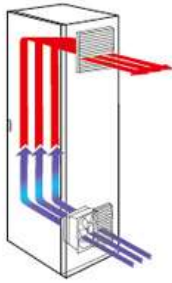
**Technical data**

Model/Standard fan	<b>FB9805/150S-230</b> <b>FB9805/150B-230</b>	<b>FB9805/220B-230</b>	<b>FB9805/150S-115</b> <b>FB9805/150B-115</b>	<b>FB9805/220B-115</b>
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2016.018/2016.049 2016.019/2016.050	2016.020/2016.051	2016.021/2016.052 2016.022/2016.053	2016.023/2016.054
Rated voltage (V / Hz)	230/50/60		115/50/60	
Air flow, free blowing	190/220m³/h			
Air flow With export filters	1xFB9805:170/205m³/h 2xFB9805:210/235m³/h			
Axial Fan	Automatically shield pole motor			
Rated current (A)	0.25	0.25	0.45	0.50 0.50 0.90
Power (W)	36	36	65	36 36 65
Noise level (dB)	58/65			
Operating temperature range	-10°C to +55°C			
Exit filter	FK9805 RAL7032(2016.003)/RAL7035(2016.034)			
Remarks	Special voltage needs can call the inquiry of the Company			

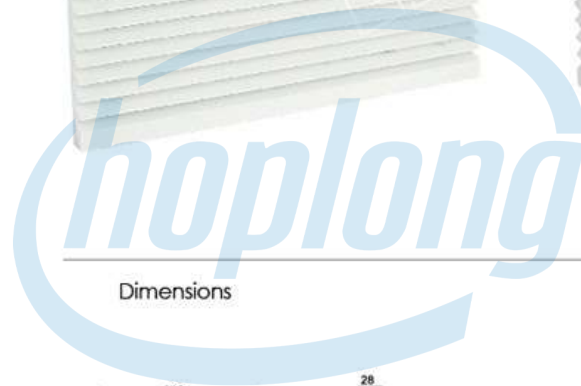


**FB9806**

Cabinet Climate Control

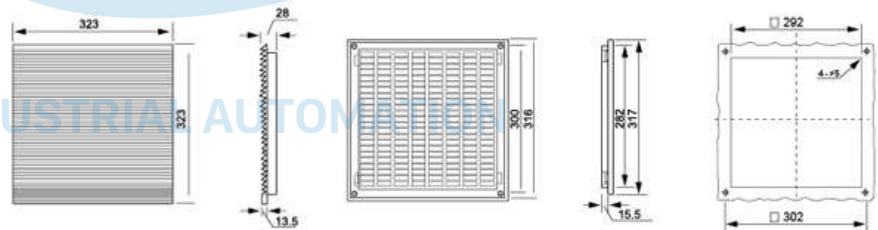


Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



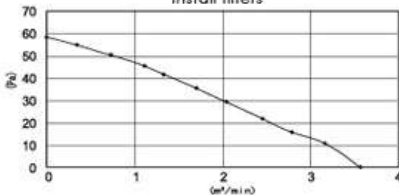
Available colors: RAL7035 RAL7032

Dimensions

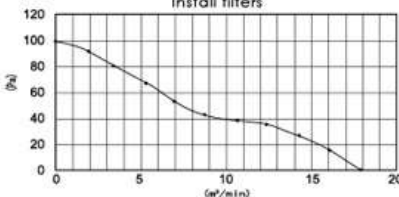


**Performance**  
FB 9806....

Fan Air flow - Pressure Curve  
(AMCA) 210-34 GB/T2858-1995  
Install filters



Fan Air flow - Pressure Curve  
(AMCA) 210-34 GB/T2858-1995  
Install filters

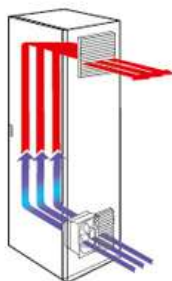


**Technical data**

Model/Standard fan	FB9806/150S-230 FB9806/150B-230	FB9806/250B-230	FB9806/150S-115 FB9806/150B-115	FB9806/250B-115
Available colors	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035	RAL7032/RAL7035
Order number	2016.024/2016.055 2016.025/2016.056	2016.026/2016.057	2016.027/2016.058 2016.028/2016.059	2016.029/2016.060
Rated voltage (V / Hz)	230/50/60		115/50/60	
Air flow, free blowing	960/1020m³/h			
Air flow With export filters	1xFB9806:185/205m³/h 2xFB9806:215/230m³/h			
Axial Fan	Automatically shield pole motor			
Rated current (A)	0.25/0.23	0.25/0.23	0.25	0.48/0.55 0.48/0.55 0.50
Power (W)	35/38	35/38	60	41/38 41/38 60
Noise level (dB)	59/68			
Operating temperature range	-10°C to +55°C			
Exit filter	FK9806 RAL7032(2016.004)/RAL7035(2016.035)			
Remarks	Special voltage needs can call the inquiry of the Company			

FB9807

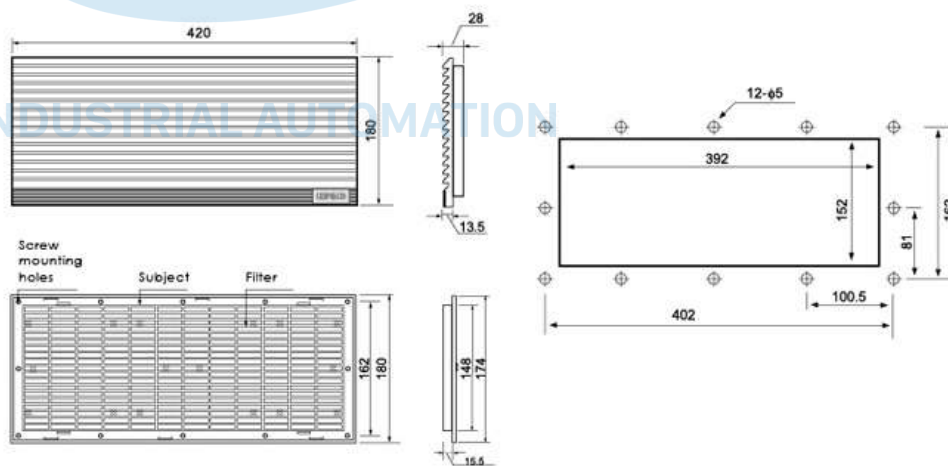
Certification	Material	Retardent Rating	IP rating
CE  UL RoHS	ABS	UL94-V2	IP54



LEIPOLE

Available colors: RAL7035   
RAL7032

## Dimensions



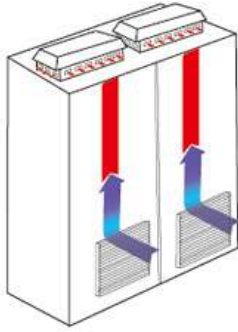
## Technical data

Model	FB9807
Order number	RAL7032(2016.005)/RAL7035(2016.036)
Effective wind	100m <sup>3</sup> /MIN
Maximum wind speed	2.0M/SEC
Dust removal rate	80%
Pressure Loss Range	6.7~20 INCH-H <sub>2</sub> O
Use of	Indoor-10°C+85°C

The fan can be installed F2E-120B-230 three fans, F2E-120S-230 three sets of fans, which is characterized by the installation of assembly, good flexibility, widely applicable. Do not use pneumatic tools to install and other high-torque apparatus.

## Cabinet Top Ventilator

Cabinet Climate Control



Certification	Material	Retardent Rating	IP Rating
CE	ABS/Steel	UL94-V2	IP53



First generation

- F2E190-230-DS
- F2E 220-230-DS
- F2E 225-230-DS



Second generation

- F2E190-230-DP
- F2E 220-230-DP
- F2E 225-230-DP

Introduction of foreign advanced technology, our company research and development on top of the cabinet exhaust fan, this product is a patent product.

### Internal

Using the exhaust fan on top is a prerequisite: the ambient temperature is lower than the required temperature within the cabinet.

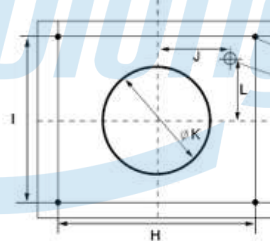
### Features

Powerful centrifugal exhaust fan on top of the main to the discharge of heat load for maximum efficiency. Can avoid using centrifugal fan blower exhaust ordinary magnetic shielding properties of the formation of the cyclone vortex, but also reduce the friction between air and noise. FK series of air inlet ventilation using cascade, to prevent moisture and dust from entering.

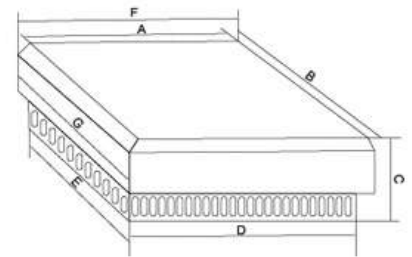
### Design

Centrifugal exhaust fan on top of unique, beautiful, good function, the structure is more reasonable, do not take up interior space, through its unique design so that it can best apply the requirements of the market today.

Dimensions



Top cabinet opening Fig



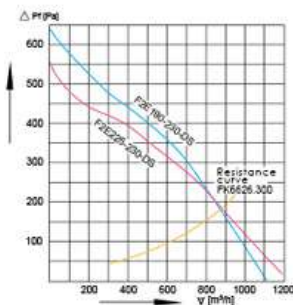
Model	Order number	A/B	C	D/E	F/G	H/I	J	ΦK	Φ1	Φ2	L
F2E190-230-DS	2017.001	310/295	125	375/330	375/315	358/308	100	158	7.8	10	100
F2E 220-230-DS	2017.002	310/295	125	375/330	375/315	358/308	100	158	7.8	10	100
F2E 225-230-DS	2017.003	310/295	125	375/330	375/315	358/308	100	158	7.8	10	100

Model	Order number	A/B	C	D/E	F/G	H/I	J	ΦK	Φ1	Φ2	L
F2E190-230-DP	2017.004	270	130	267	310	226.8	98.4	195	7.8	15	97
F2E 220-230-DP	2017.005	270	130	267	310	226.8	98.4	195	7.8	15	97
F2E 225-230-DP	2017.006	270	130	267	310	226.8	98.4	195	7.8	15	97

### Technical data

Model	F2E190-230-DS/P	F2E220-230-DS/P	F2E225-230-DS/P
Rated voltage (V / Hz)	230/50/60		
Air flow, free blowing	570/620m³/h	860/900m³/h	1200/1340m³/h
Air flow With exit filters	1xFK6626.300 456/496m³/h	1xFK6626.300 688/540m³/h	1xFK6626.300 960/1072m³/h
Axial Fan	Electric capacitance		
Rated current (A)	0.26/0.34	0.38/0.40	0.60/0.88
Power (W)	58/75	85/90	135/200
Noise level (dB)	62/64	69/71	73/74
Operating temperature range	-10°C to +55°C		-10°C to +60°C
Remarks	The number of air inlet filter, size according to the specific circumstances.		

### Power curve F2E....

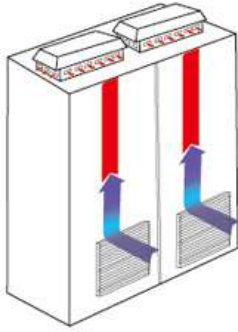




# CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

F2E new generation of Cabinet top ventilator

## Cabinet Exhaust Fan



Certification	Material	Retardent Rating	IP Rating
CE CCC	ABS/Steel	UL94-V2	IP53



LEIPOLE

Introduction of foreign advanced technology, our company research and development on top of the cabinet exhaust fan, this product is a patent product.

### Internal

Using the exhaust fan on top is a prerequisite: the ambient temperature is lower than the required temperature within the cabinet.

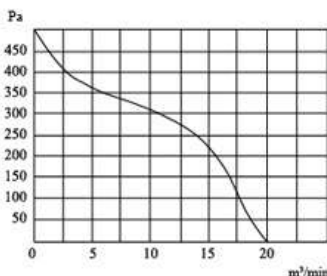
### Features

Powerful centrifugal exhaust fan on top of the main to the discharge of heat load for maximum efficiency. Can avoid using centrifugal fan blower exhaust ordinary magnetic shielding properties of the formation of the cyclone vortex, but also reduce the friction between air and noise. FK series of air inlet ventilation using cascade, to prevent moisture and dust from entering.

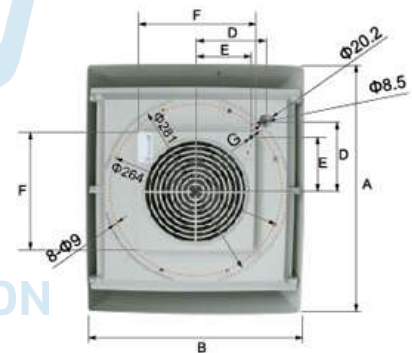
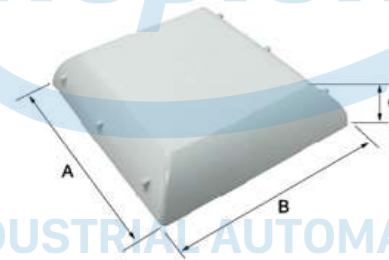
### Design

Centrifugal exhaust fan on top of unique, beautiful, good function, the structure is more reasonable, do not take up interior space, through its unique design so that it can best apply the requirements of the market today.

### Power curve F2E....



### Dimensions



Patent No. 1474456

INDUSTRIAL AUTOMATION

Model	A	B	C	D	E	F	G
F2E190-230-DSP	400	350	103	107.2	83.85	179.5	Φ7
F2E 220-230-DSP	400	350	103	107.2	83.85	179.5	Φ7
F2E 225-230-DSP	400	350	103	107.2	83.85	179.5	Φ7

### Technical data

Model	F2E190-230-DSP	F2E220-230-DSP	F2E225-230-DSP
Order number	2017.007	2017.008	2017.009
Rated voltage (V / Hz)	230/50/60		
Air flow, free blowing	570/620m³/h	860/900m³/h	1200/1340m³/h
Air flow With exit filters	1xFK6626.300 456/496m³/h	1xFK6626.300 688/540m³/h	1xFK6626.300 960/1072m³/h
Axial Fan	Electric capacitance		
Rated current (A)	0.26/0.34	0.38/0.40	0.60/0.88
Power (W)	58/75	85/90	135/200
Noise level (dB)	62/64	69/71	73/74
Operating temperature range	-10°C to +55°C		-10°C to +60°C
Remarks	The number of air inlet filter, size according to the specific circumstances.		

### Centrifugal Fan

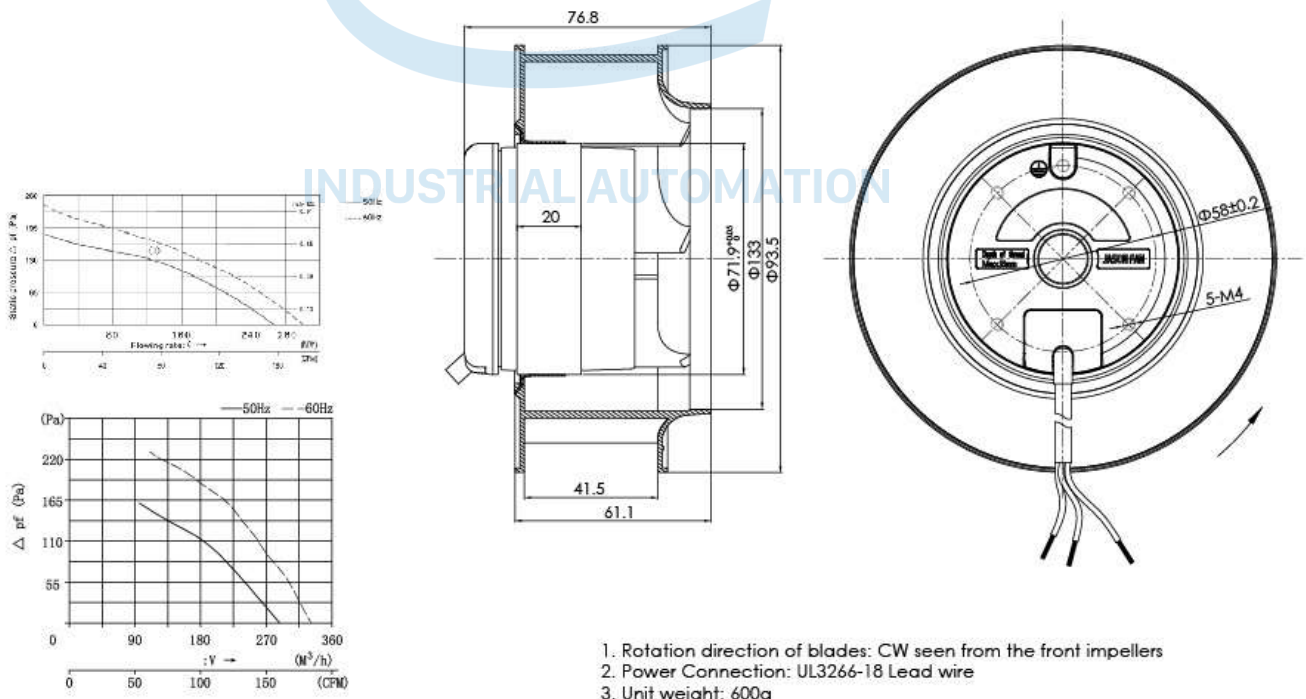
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Shaded pole/Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment temperature and humidity range:**  
-25°C~+65°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.



Impeller: PA6 Black Bottom: Steel

#### Dimensions



Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
133FLW2	2019.001	220	50	1	23	0.11	2800	4.5	185	58	0.6	1.5/400
133FLW3	2019.002	380	50/60	1	34/35	0.11/0.13	2540/2670	5.5	240	60	0.8	-

### Centrifugal Fan

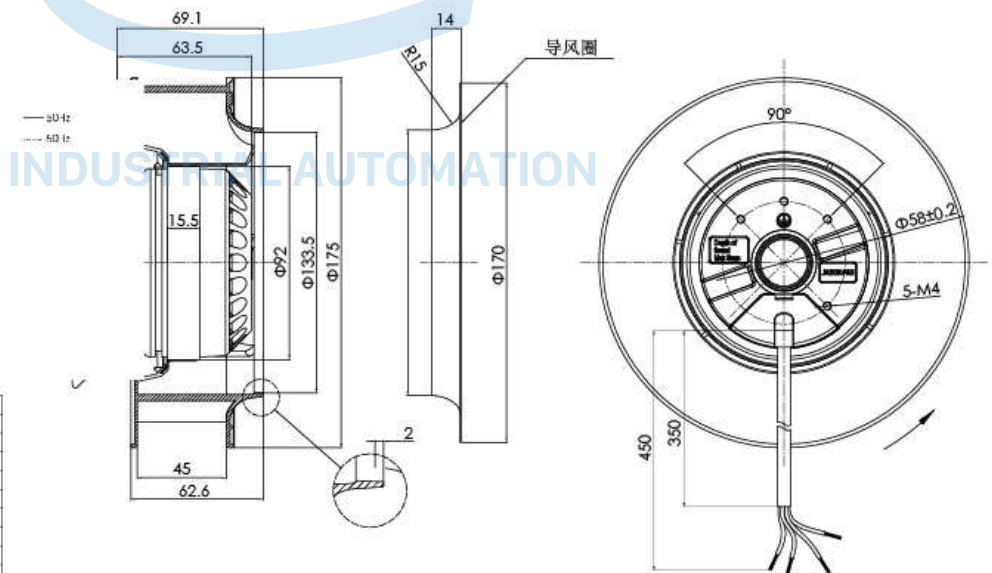
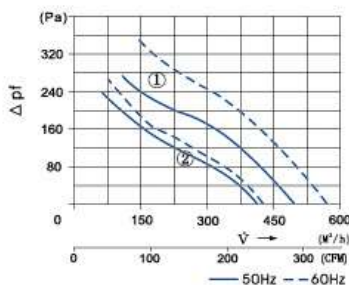
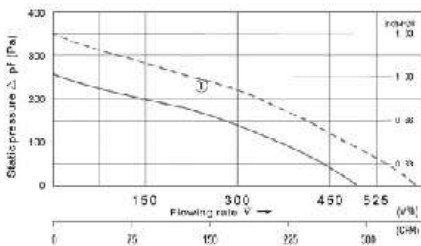
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Shaded pole/Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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,



Impeller: PA6 Black Bottom: Steel

#### Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3266-18 Lead wire
3. Unit weight: 1.2kg

Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
170FLW2	2019.003	220	50	1	60	0.30	2400	7.5	275	56	1.2	1.5/400
170FLW3	2019.004	380	50/60	1	57/64	0.16/0.17	2530/2850	7.5	275	64	1.2	-



### Centrifugal Fan

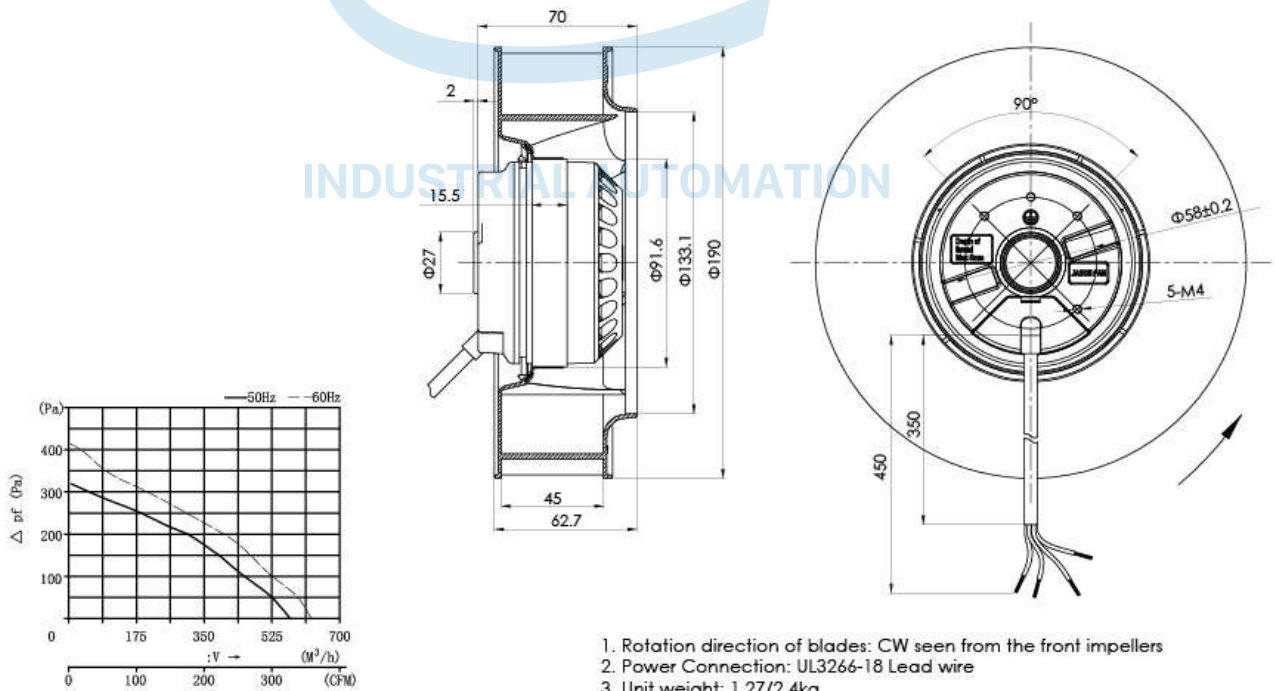
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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.



Impeller: PA6 Black Bottom: Steel

#### Dimensions



Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
190FLW2	2019.005	220	50/60	1	56/71	0.24/0.3	2450 /2500	9.5/10.5	325/500	62/64	1.27	1.5µF/450VDB
190FLW3	2019.006	380	50/60	1	65/75	0.15/0.18	2500 /2720	9.6/10.3	420/510	62/64	1.27	0.5µF/700VDB

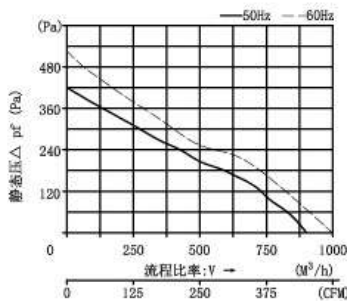
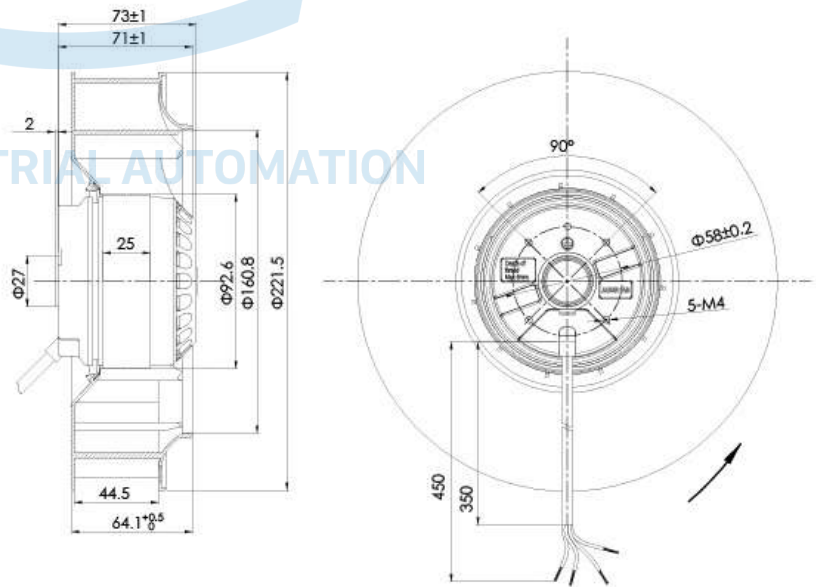
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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,



Impeller: PA6 Black Bottom: Steel

#### Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3266-18 Lead wire
3. Unit weight: 1.9kg

Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
220FLW2	2019.007	220	50/60	1	98/118	0.46/0.51	2570 /2920	15/17	420/520	71/74	1.9	3μF/450VDB
220FLW3	2019.008	380	50/60	1/3	100/125	0.29/0.35	2600 /2860	15/17	420/520	71/74	1.9	-

### Centrifugal Fan

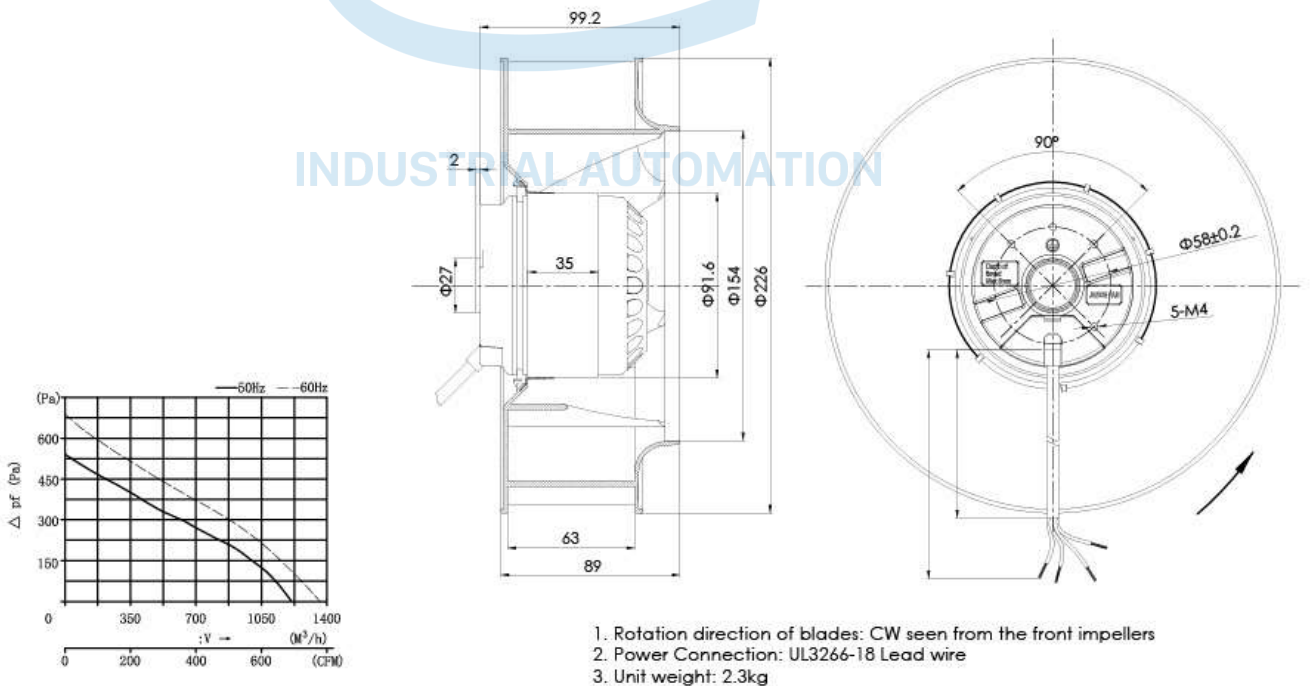
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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.



Impeller: PA6 Black Bottom: Steel

#### Dimensions



Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
225FLW2	2019.011	220	50/60	1	131/170	0.6/0.74	2630 /2930	20/22.3	550/725	69/71	2.3	4µF/450VDB
225FLW4	2019.012	380	50/60	1/3	135/170	0.34/0.44	2600 /2950	20/22.3	550/725	69/71	2.3	-



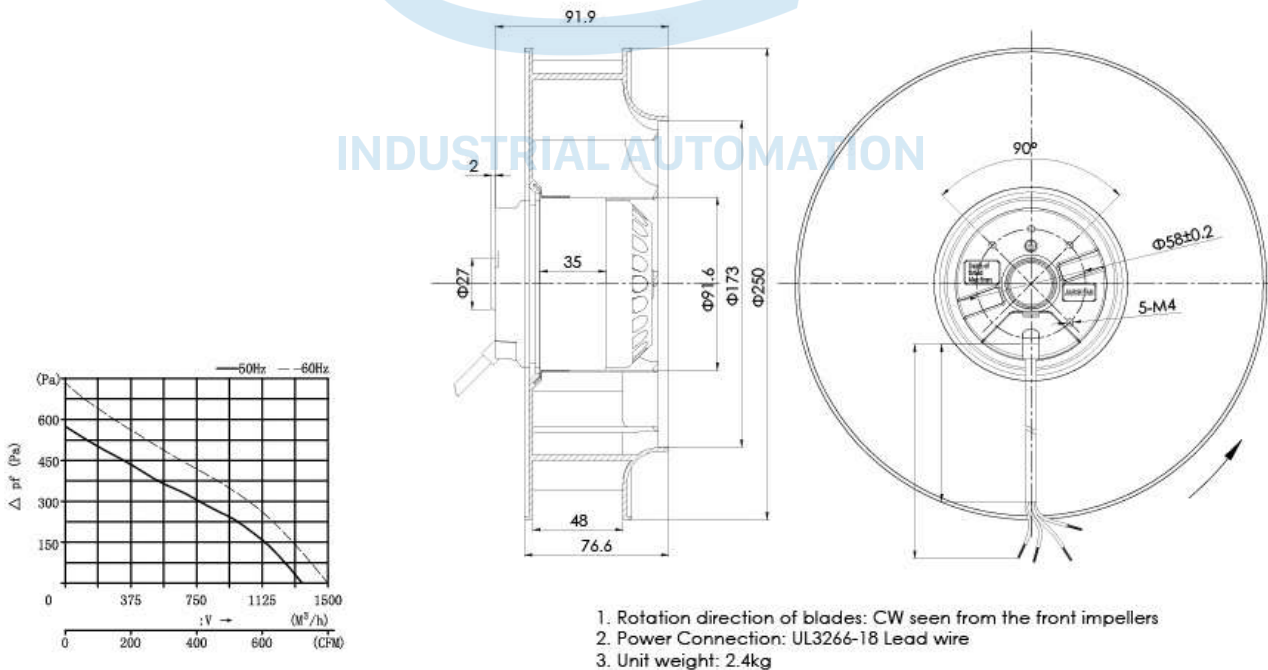
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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,



Impeller: PA6 Black Bottom: Steel

#### Dimensions



Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
250FLW2	2019.011	220	50/60	1	131/173	0.59/0.76	2650 /2970	24.2/25.4	580/750	74/76	2.4	4µF/450VDB
250FLW4	2019.012	380	50/60	1/3	130/173	0.38/0.46	2625 /2915	24.2/25.4	580/750	74/76	2.4	CBB60 1µF/630VDB

### Centrifugal Fan

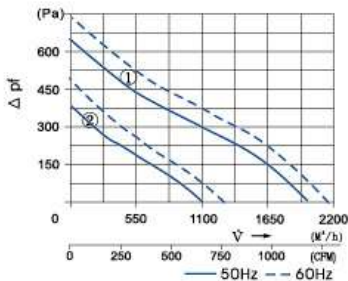
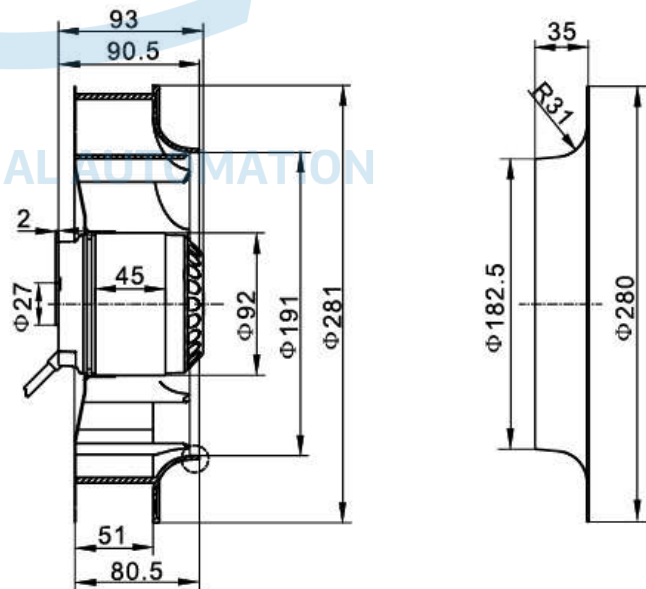
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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.



Impeller: PA6 Black Bottom: Steel

#### Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3266-18 Lead wire
3. Unit weight: 3.2kg

Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
280FLW2	2019.013	220	50/60	1	230/305	1.03/1.30	2550 /2750	33.2/35.2	700/750	72/75	3.2	8µF/450VDB
280FLW3	2019.014	380	50/60	1/3	228/300	0.54/0.65	2580 /2800	33.5/35.5	700/750	72/75	3.2	-

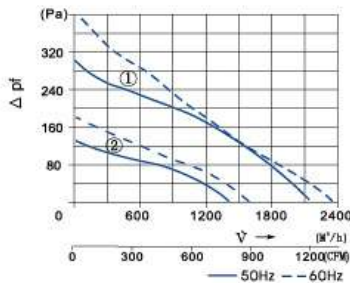
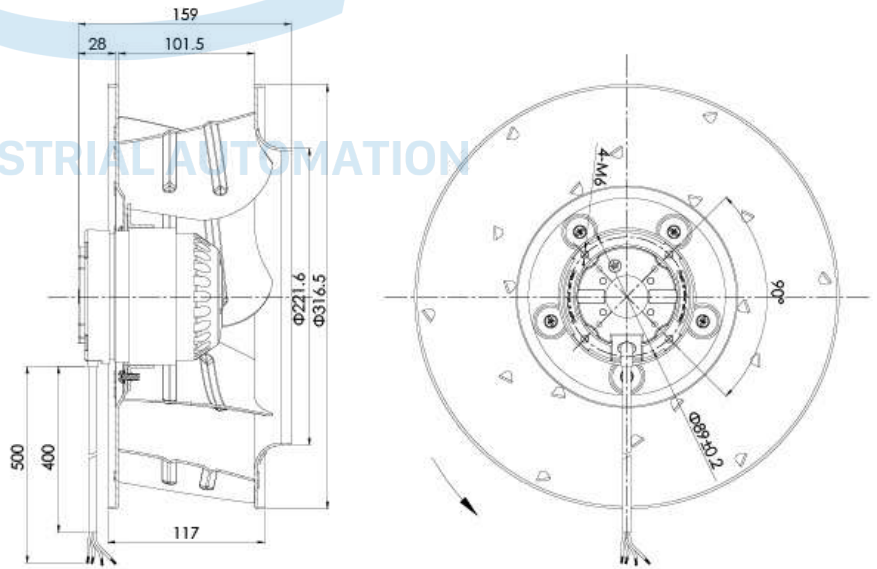
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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,



Impeller: ABS6 Black  
Bottom: aluminum sheet

#### Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3266-18 Lead wire
3. Unit weight: 3.8kg

Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
310FLW4	2019.015	220	50/60	1	110/150	0.50/0.65	1350 /1480	35.4/39.5	300/400	59/70	3.8	3μF/450VDB
310FLW5	2019.016	380	50/60	1/3	128/170	0.4/0.47	1380 /1540	35.4/39.5	300/400	59/70	3.8	-



### Centrifugal Fan

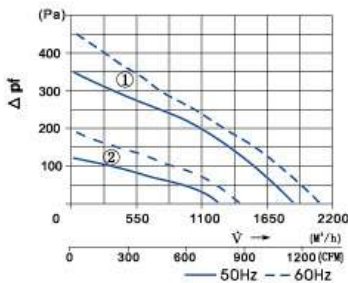
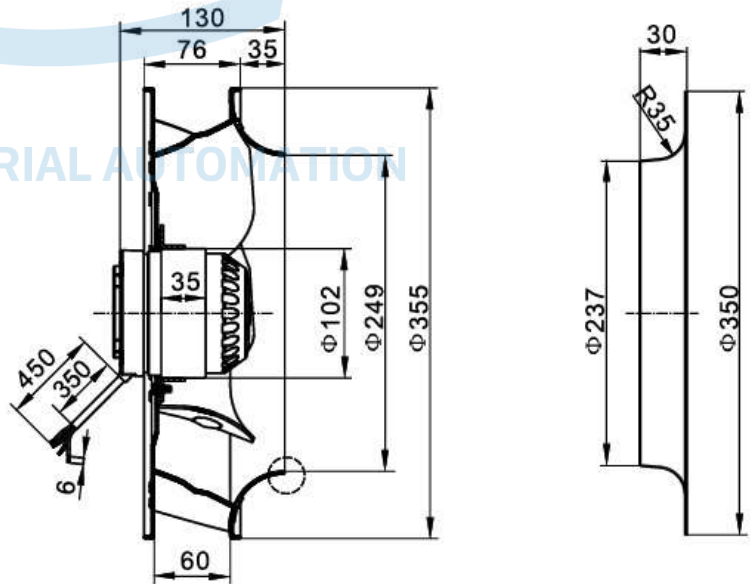
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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.



Impeller: ABS6 Black  
Bottom: aluminum sheet

#### Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3266-18 Lead wire
3. Unit weight: 3.9kg

Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
350FLW4A	2019.017	220	50/60	1	105/145	0.46/0.63	1400 /1600	30.8/35.3	350/460	63/66	3.9	3μF/450VDB
350FLW5A	2019.018	380	50/60	1/3	136/137	0.33/0.32	1400 /1600	30.8/35.3	350/460	63/66	3.9	-

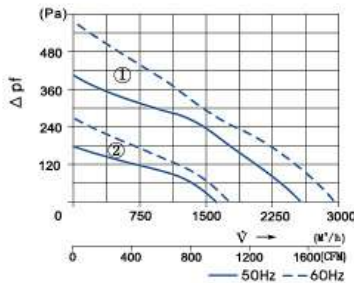
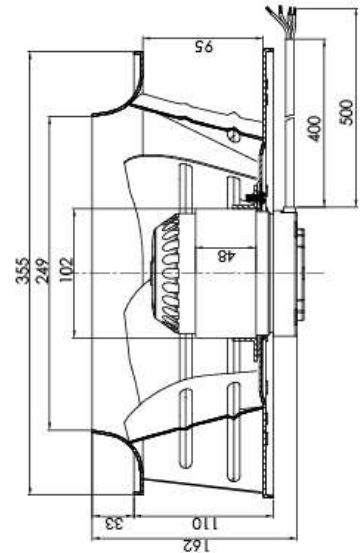
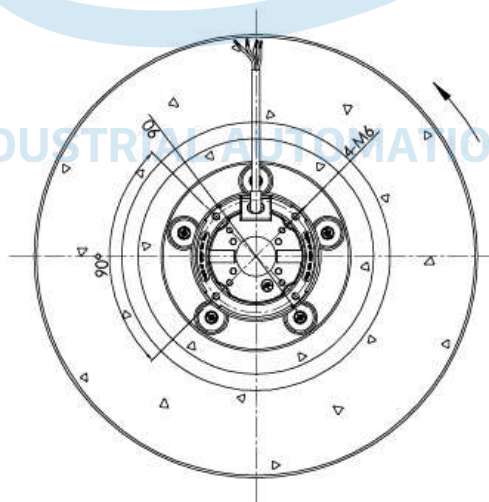
Certification	Impeller	Protection class
CE	Black PA nylon	IP44

- **Motor** Cage type capacitor structure external rotor motor
- **Impeller** Black PA nylon one-time injection moulding
- **Allowable environment 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,



Impeller: aluminum alloy  
Bottom: aluminum sheet

#### Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3266-18 Lead wire
3. Unit weight: 4.7kg

Model	Order Code	Rated Voltage V	Frequency Hz	Phase	Input power (W)	Current (A)	Speed (r/min)	Air Flow (m³/min)	Static pressure (Pa)	Noise (dB)	Weight (kg)	Capacitance
355FLW4	2019.019	220	50/60	1	175/250	0.80/1.00	1400/1600	43/49	410/580	65/69	4.7	5µF/450VDB
355FLW4A	2019.020	220	50/60	1	170/230	0.78/0.8	1370/1540	43/49	410/580	54/70	4.7	5µF/450VDB
355FLW4A1	2019.021	380	50/60	1/3	165/225	0.44/0.43	1400/1600	43/49	410/580	65/69	4.7	-

Certification	Impeller	Protection class
CE	Black plastic PBT	IP34

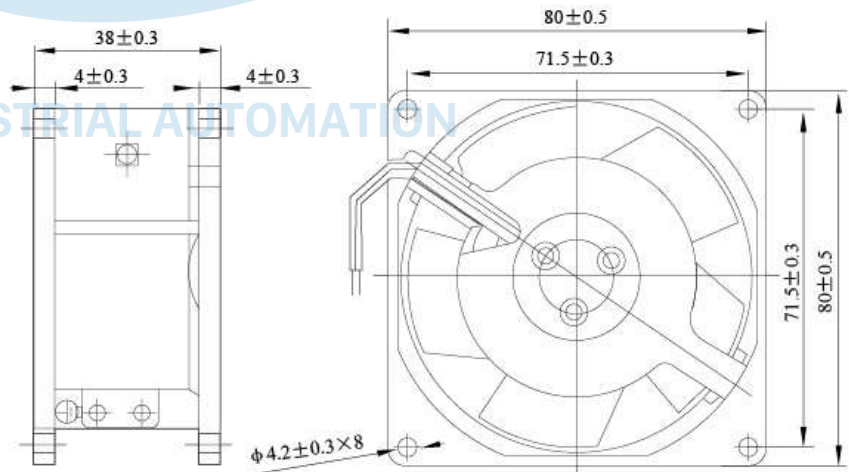
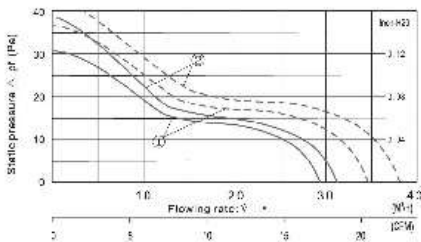
- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Impeller** Black plastic PBT UL94V-0
- **Operation Temperature/Humidity Range:**  
-30°C~+60°C (temperature) 0%~95%(humidity)
- **Protection** Impedance Protected
- **Withstand Voltage** AC 1,500V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade B,



80×80×38mm

Dimensions

INDUSTRIAL AUTOMATION



1. Rotation direction of blades: CCW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 0.35kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-80B-230	2018.001	ball	220/230	50/60	0.08/0.07	15/11	2600/2900	30/36	36/38	0.35
F2E-80B-115	2018.002	ball	110/115	50/60	0.16/0.14	15/11	2600/2900	30/36	36/38	0.35



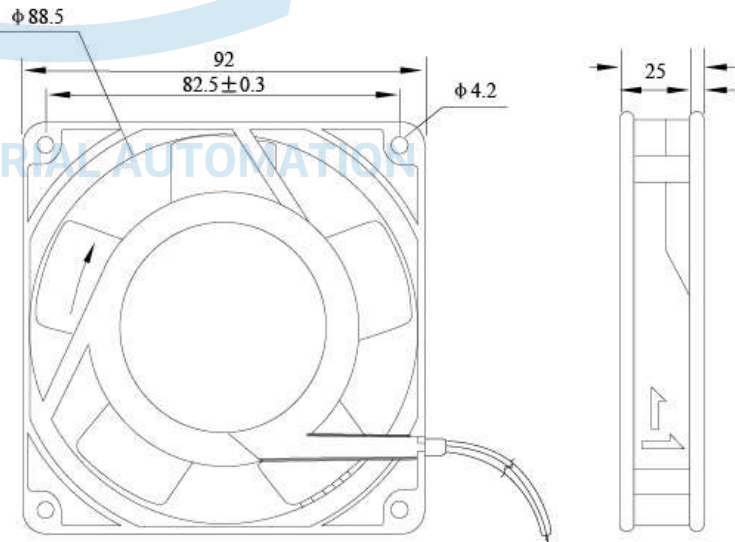
Certification	Impeller	Protection class
CE	Black plastic PBT	IP34

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Impeller** Black plastic PBT UL94V-0
- **Operation Temperature/Humidity Range:**  
-40°C~+65°C (temperature) 0%~95%(humidity)
- **Protection** Impedance Protected
- **Withstand Voltage** AC 1,500V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade B.

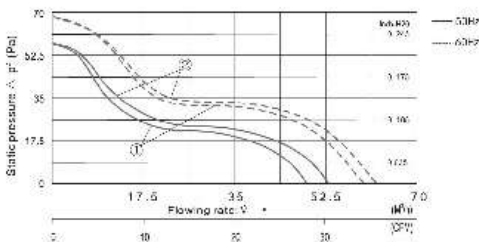


92×92×25mm

Dimensions



INDUSTRIAL AUTOMATION



1. Rotation direction of blades: CCW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 0.27kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-92S-230	2018.003	Sleeve	220/230	50/60	0.07/0.06	13/11	2400/2500	39/48	37	0.27
F2E-92B-230	2018.005	ball								
F2E-92S-115	2018.004	Sleeve	110/115	50/60	0.12/0.10	13/11	2400/2500	39/48	37	0.27
F2E-92B-115	2018.006	ball								

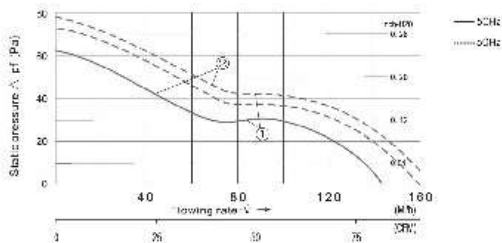
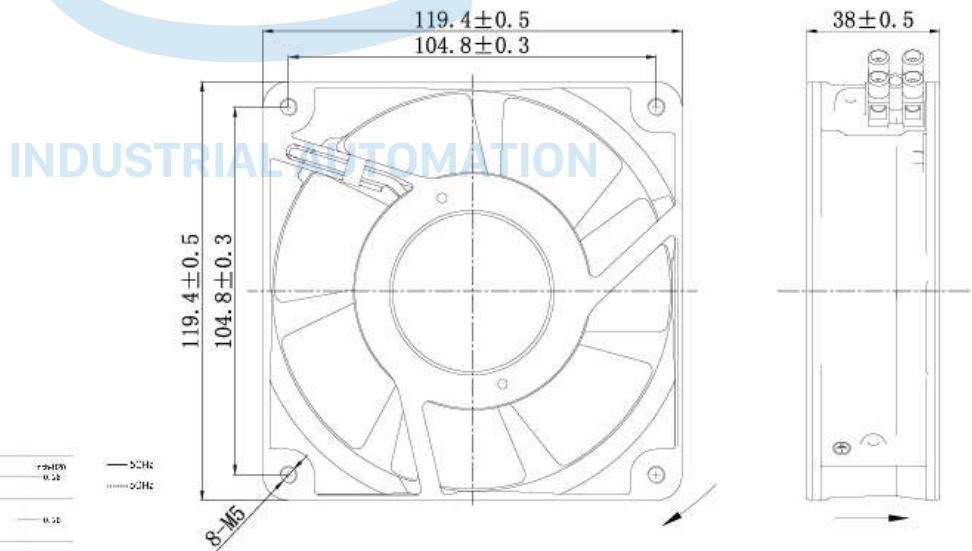
Certification	Impeller	Protection class
CE	Black plastic PBT	IP33

- **Frame** Aluminum die-casting, surfaces is finished by anti-corrosion treatment with primary color or black electrophoresis
- **Impeller** Metal impellers are welded to motor rotor, and surface is finished by black electrophoresis anti-corrosion treatment
- **Operation Temperature/Humidity**  
Temperature -30°C~+65°C (temperature) 0%~95%(humidity)
- **Protection** Motor Internal with automatic recovery thermal protector
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade F.



120×120×38mm

Dimensions



1. Rotation direction of blades: CCW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 0.55kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-120S-230	2018.007	Sleeve	220/230	50/60	0.12/0.10	19/14	2500/2700	145/160	34/37	0.55
F2E-120B-230	2018.009	ball								
F2E-120S-115	2018.008	Sleeve	110/115	50/60	0.24/0.20	18/15	2500/2800	145/160	34/37	0.55
F2E-120B-115	2018.010	ball								

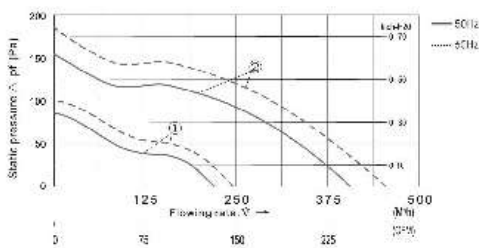
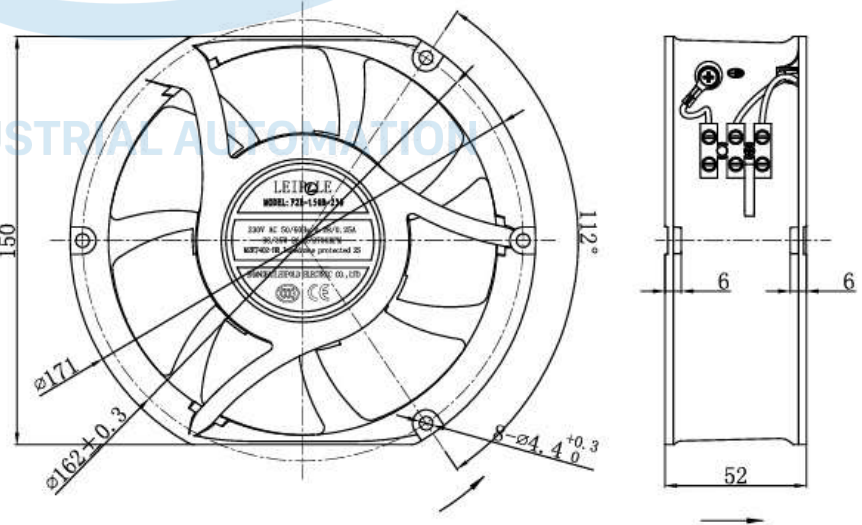
Certification	Impeller	Protection class
CE	Black plastic PBT	IP34

- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Impeller** Black plastic PBT UL94V-0 (5 Blades/7 Blades)
- **Operation Temperature/Humidity Range:**  
-40°C~+65°C (temperature) 0%~95%(humidity)
- **Protection** Impedance Protected
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade B.



172×150×51mm

Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 0.9kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-150S-230	2018.011	Sleeve	220/230	50/60	0.27/0.24	38/36	2580/2650	300	58	0.86
F2E-150B-230	2018.013	ball								
F2E-150S-115	2018.012	Sleeve	110/115	50/60	0.50	36	2700	300	58	0.9
F2E-150B-115	2018.014	ball								



Certification	Impeller	Protection class
CE	Black plastic PBT	IP44

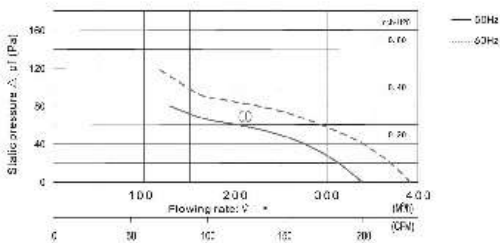
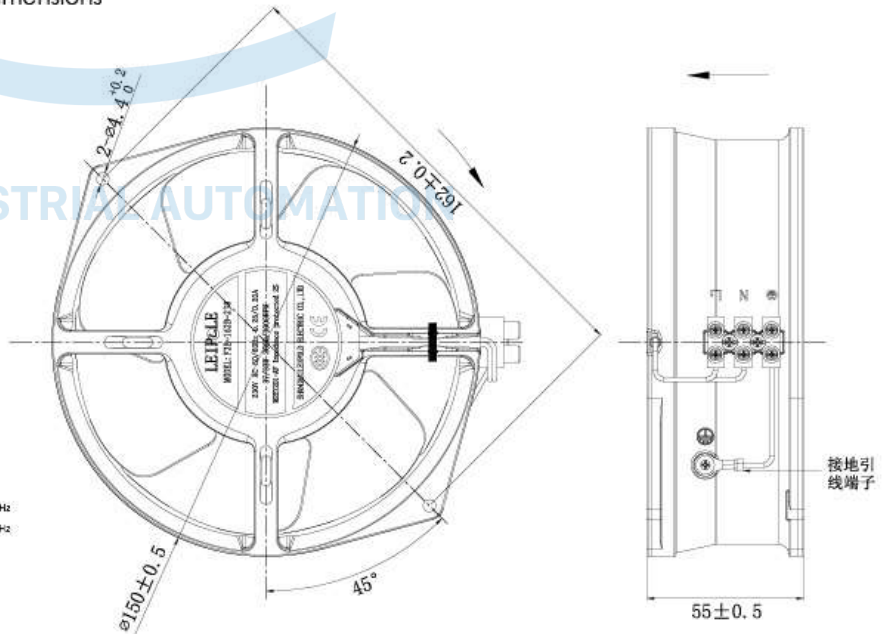
- **Frame** Aluminum die-casting, surfaces is finished by anti-corrosion treatment with primary color or black electrophoresis
- **Impeller** Metal impellers are welded to motor rotor, and surface is finished by black electrophoresis anti-corrosion treatment
- **Operation Temperature/Humidity**  
Temperature -30°C~+65°C (temperature) 0%~95%(humidity)
- **Protection** Motor Internal with automatic recovery thermal protector
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade F.



172×162×51mm

Dimensions

INDUSTRIAL AUTOMATION



1. Rotation direction of blades: CCW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 1.1kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-162B-230	2018.015	ball	220/230	50/60	0.26/0.20	37/33	2650/3000	325/380	48/52	1.1
F2E-162B-115	2018.016	ball	110/115	50/60	0.51/0.42	38/35	2650/3000	325/380	48/52	1.1

Certification	Impeller	Protection class
CE	Black plastic PBT	IP34

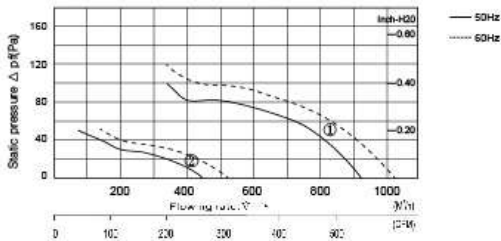
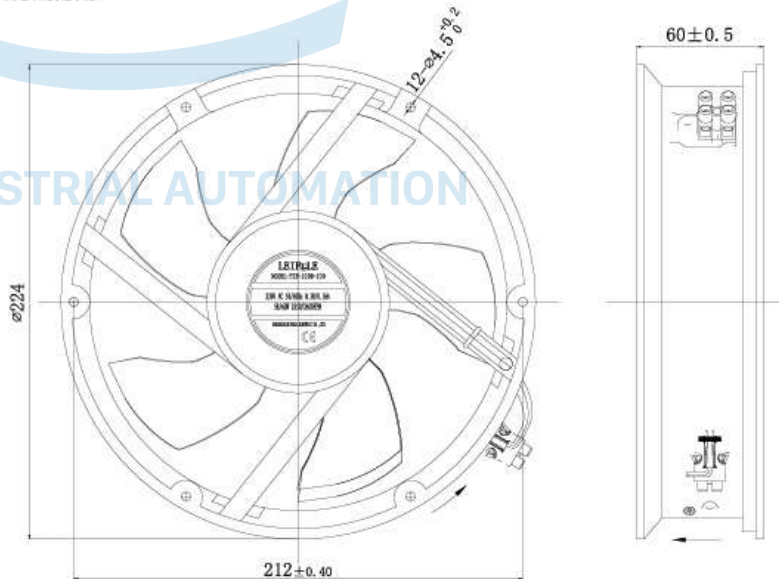
- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Impeller** Black plastic PBT UL94V-0 (5 Blades/7 Blades)
- **Operation Temperature/Humidity Range:**  
-40°C~+65°C (temperature) 0%~95%(humidity)
- **Protection** Impedance Protected
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade B.



220×60mm

Dimensions

INDUSTRIAL AUTOMATION



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 1.55kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-220B-230	2018.017	ball	220/230	50/60	0.38/0.36	58/60	2480/2580	580	64/66	1.55
F2E-220B-115	2018.018	ball	110/115	50/60	0.90	65	2600	580	65	1.55

Certification	Impeller	Protection class
CE	Black plastic PBT	IP34

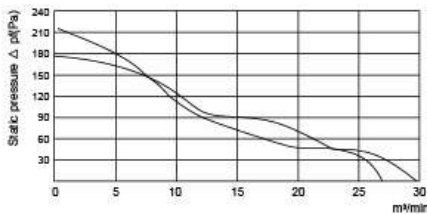
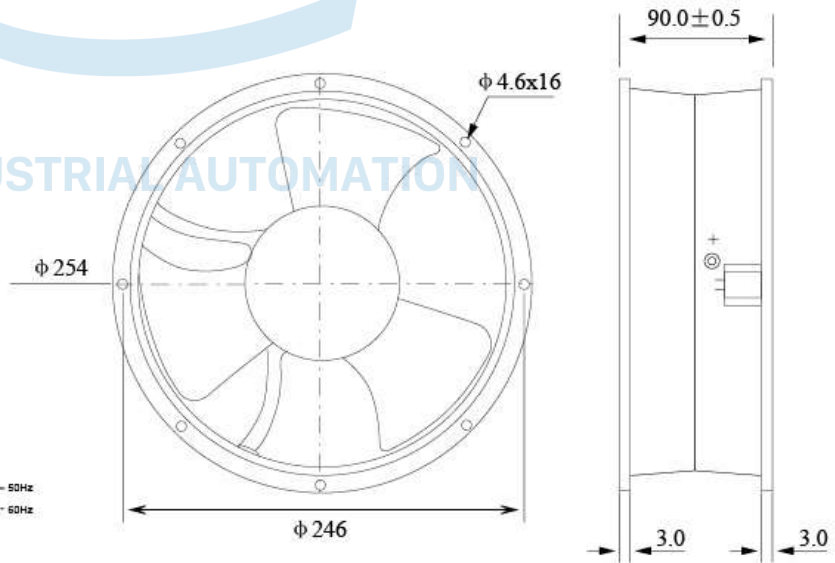
- **Frame** Aluminum alloy die-casting, surfaces is finished by black anti-corrosion treatment.
- **Impeller** Black plastic PBT UL94V-0
- **Operation Temperature/Humidity Range:**  
-30°C~+60°C (temperature) 0%~95%(humidity)
- **Protection** Impedance Protected
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade B.



254x90mm

Dimensions

INDUSTRIAL AUTOMATION



1. Rotation direction of blades: CCW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 2kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-250B-230	2018.019	ball	220/230	50	0.25	60	2300	1500	68	2.0
F2E-250B-115	2018.020	ball	110/115	50	0.50	60	2300	1500	68	2.0



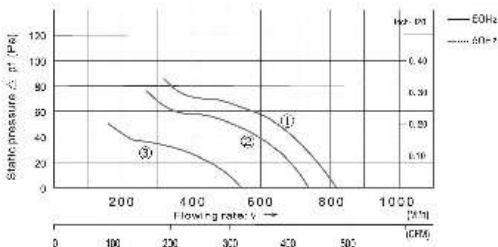
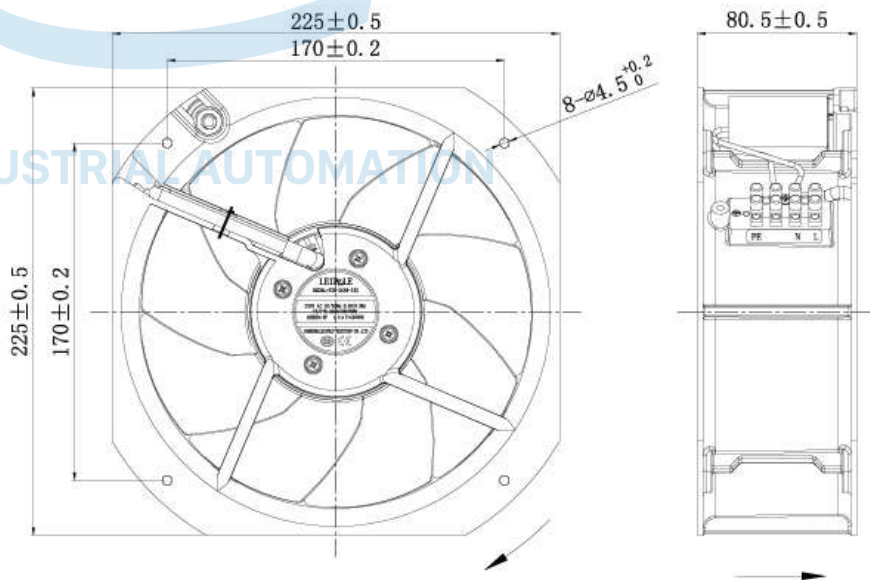
Certification	Impeller	Protection class
CE	Black plastic PBT	IP34

- **Frame** Aluminum die-casting, surfaces is finished by anti-corrosion treatment with primary color or black electrophoresis
- **Impeller** Metal impellers are welded to motor rotor, and surface is finished by black electrophoresis anti-corrosion treatment
- **Operation Temperature/Humidity**  
Temperature -30°C~+65°C (temperature) 0%~95%(humidity)
- **Protection** Motor Internal with automatic recovery thermal protector
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade F,



260X227X80mm

Dimensions



1. Rotation direction of blades: CW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 2.2kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-260B-230	2018.021	ball	220/230	50/60	0.3/0.34	63/79	2550/2850	915/1010	59/61	2.2
F2E-260B-115	2018.022	ball	110/115	50/60	0.61/0.63	63/72	2550/2850	925/956	62/64	2.2

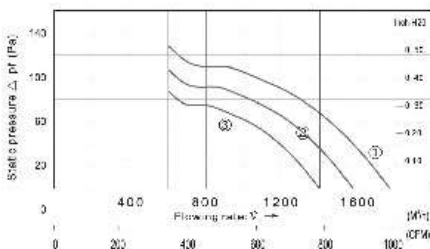
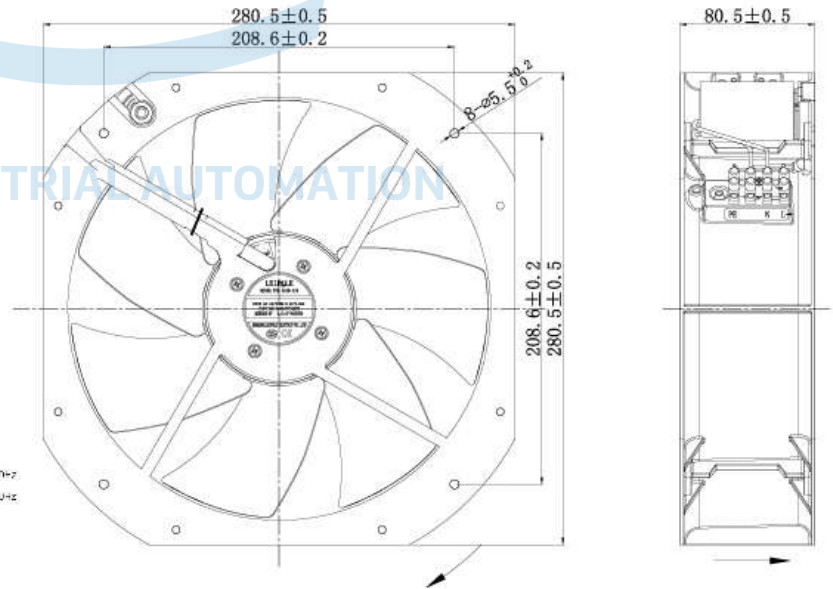
Certification	Impeller	Protection class
CE	Black plastic PBT	IP34

- **Frame** Aluminum die-casting, surfaces is finished by anti-corrosion treatment with primary color or black electrophoresis
- **Impeller** Metal impellers are welded to motor rotor, and surface is finished by black electrophoresis anti-corrosion treatment
- **Operation Temperature/Humidity**  
Temperature -30°C~+65°C (temperature) 0%~95%(humidity)
- **Protection** Motor Internal with automatic recovery thermal protector
- **Withstand Voltage** AC 1,800V, 1 min at 0.5mA, 50/60 Hz
- **Insulation Grade** Design according to IEC61858 Grade F.



320×280×80mm

Dimensions



1. Rotation direction of blades: CCW seen from the front impellers
2. Power Connection: UL3385-22 Lead wire
3. Unit weight: 2.9kg

Model	Order Code	Bearing	Voltage V	Frequency Hz	Current (A)	Power (W)	Speed (r/min)	Air Flow (m³/h)	Noise (dB)	Weight (kg)
F2E-320B-230	2018.023	ball	220/230	50/60	0.46/0.60	100/140	2500/2650	1800/1950	68/70	2.9
F2E-320B-115	2018.024	ball	110/115	50/60	1.10/1.20	100/140	2500/2650	1800/1950	68/70	2.9



### Electrical cabinet heater Why should I use?

Electrical equipment produces heat under a load of work to prevent the accumulation of condensate, however, when the device stops working after cooling down gradually to adapt to ambient temperature, the temperature inside dropped to below the dew point. So this needs to trigger the radiant heat! Electrical cabinet heater temperature by increasing the external ambient temperature a few degrees higher than the counter method to prevent the formation of condensate.

- R Series heater covers the range from 10W-1200W.
- Supporting unit heater: temperature control, humidity control, pressure relief compensation devices.

### Heater Selection

Calculated Prerequisites:

1. Electrical control cabinet dimensions (length, width, height)
2. By convention, we must understand the placement of electrical control cabinet (for example: a single counter, row counter) and the effective surface area of electrical cabinets
3. Electric cabinet cabinet material (for example: metal, plastic) of the heat exchange coefficient (W/m<sup>2</sup>K)
4. Power set the cabinet temperature  $T_i$  (°C) and the cabinet outside temperature  $T_u$  (°C) (example: day - night, summer - winter, climate change) temperature difference  $\Delta T$  (K)
5. electrical cabinet interior electrical equipment (for example: transformers, relays and converters, etc.) the heat at work

Selection parameters were calculated

1. according to panel size to calculate the surface area
2. the placement of electrical cabinets (shown below)

Open space around a single

Single wall

Cabinet in the front row or the last unit, and the remaining open space

Cabinet in the front row or the last unit, the wall

The middle row of counter units, followed by open space

The middle row of counter unit against the wall

The middle row of counter unit against the wall above are covered

Panel surface area formula A (m<sup>2</sup>)

(H high, W W, D D)

$$A = 1.8 \times H \times (W + D) + 1.4 \times W \times D$$

$$A = 1.4 \times W \times (H + D) + 1.8 \times D \times H$$

$$A = 1.4 \times D \times (H + W) + 1.8 \times W \times H$$

$$A = 1.4 \times H \times (W + D) + 1.4 \times W \times D$$

$$A = 1.8 \times W \times H + 1.4 \times W \times D + D \times H$$

$$A = 1.4 \times W \times (H + D) + D \times H$$

$$A = 1.4 \times W \times H + 0.7 \times W \times D + D \times H$$



# CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

Example: open space around the panel, 2000mm high / 800mm wide / 600mm deep, then  $A = 1.8 \times 2.0 \times (0.8 + 0.6) + 1.4 \times 0.8 \times 0.6 = 5.712\text{m}^2$

3. Electric cabinet cabinet material and heat transfer coefficient K (W/m²k)

Steel finish	5.5 W/m²k
Stainless steel	4.5W/m²k
Aluminum	12 W/m²k
Double layer aluminum	4.5W/m²k
Plastic plate	3.5W/m²k

4. cabinets inside and outside temperature difference  $\Delta T$  (K)

$$\Delta T = T_i - T_u$$

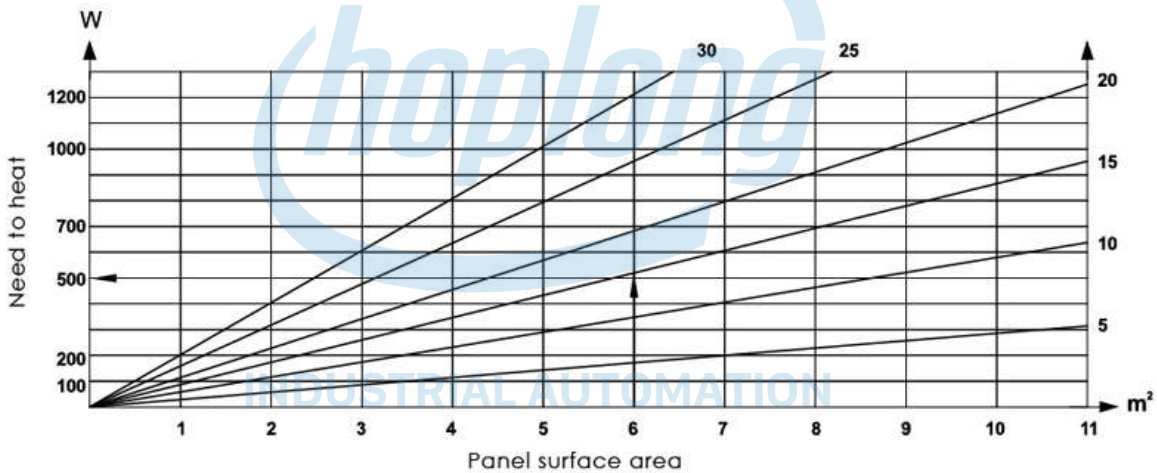
The formula for calculating the required heat (heater)

Need to heat P (W) = surface area of electrical cabinets A (m²) × cabinet material heat transfer coefficient K (W/m²k) × temperature difference  $\Delta T$  (K)

Example:  $W = 5.712 \text{ m}^2 \times 5.5\text{W/m}^2\text{k} \times 15\text{K} = 471.24\text{W}$

Results: The need to 500W of heat for the heater to meet the requirements, if the panel is located outdoors, the heater needs to be double the heat!

Experience through the following selection chart



5. If the electrical work, electrical equipment cabinets inside a fever, in the calculation of heat heater electrical equipment must be less heat.

Selection of the fan filter

According to the chart below select the appropriate experience of cooling equipment:

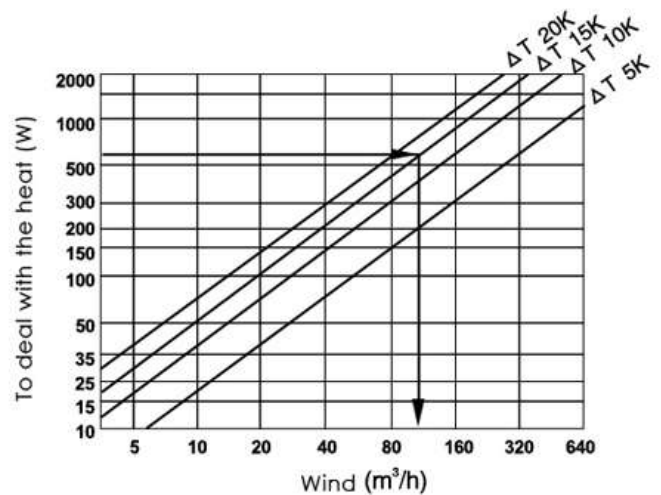
Calculated by formula to select the cooling equipment (filter fan)

Required air flow V (m³/h) = [to deal with the heat PV / cabinet temperature difference  $\Delta T$  (K)] × air constant [3.3 m³K/Wh]

Example:  $V = [600\text{W}/15\text{K}] \times 3.3\text{m}^3\text{K}/\text{Wh} = 132 \text{ m}^3/\text{h}$

Air constant value range:

PV (0-100) = 3.1 m³K/Wh	PV (500-750) = 3.4 m³K/Wh
PV (100-250) = 3.3 m³K/Wh	PV (750-1000) = 3.5 m³K/Wh
PV (250-500) = 3.3 m³K/Wh	

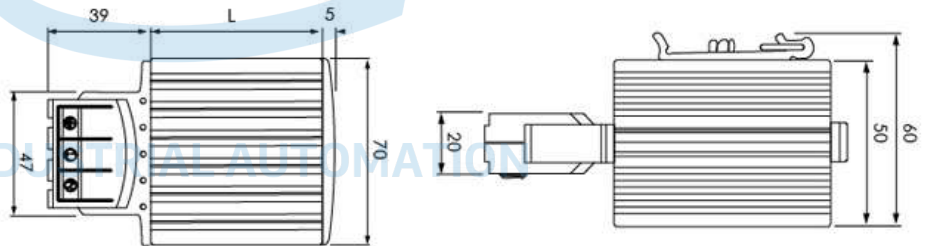


Certification	Case Material	Protection class
CE RoHS	Aluminum	IP20

Heater for electrical cabinet wet applications in need of protection, or the temperature is not below a specified minimum number of occasions. Aluminum profile body design more stable form of the chimney effect of the release of heat. Pressure terminal connectors save time and be more simpler to install.



Dimensions



Voltage end of the 140V AC / DC will be reduced by about 10% of the heat output

Model	Order	Heat output (W) 20 °C ambient temperature	Maximum Allowable Current (A)	L(mm)	Weight (kg)
JRQ15	2020.001	15	1.5	65	0.2
JRQ30	2020.002	30	3	65	0.2
JRQ45	2020.003	45	3.5	65	0.2
JRQ60	2020.004	60	2.5	140	0.36
JRQ75	2020.005	75	4	140	0.36
JRQ100	2020.006	100	4.5	140	0.36
JRQ150	2020.007	150	9	220	0.54

#### Technical data

Operating Voltage	120-250VAC/DC
Heating element	PTC, self-adjustment and temperature limits
Electrical connection	3 pressure line terminal, the standard line of 0.5-2.5mm <sup>2</sup>
Connection terminal	UL94V <sub>0</sub>
Installation Requirements	Vertical
Operating / storage temperature	-45°C to +70°C

Certification

CE RoHS

Case Material

Aluminum

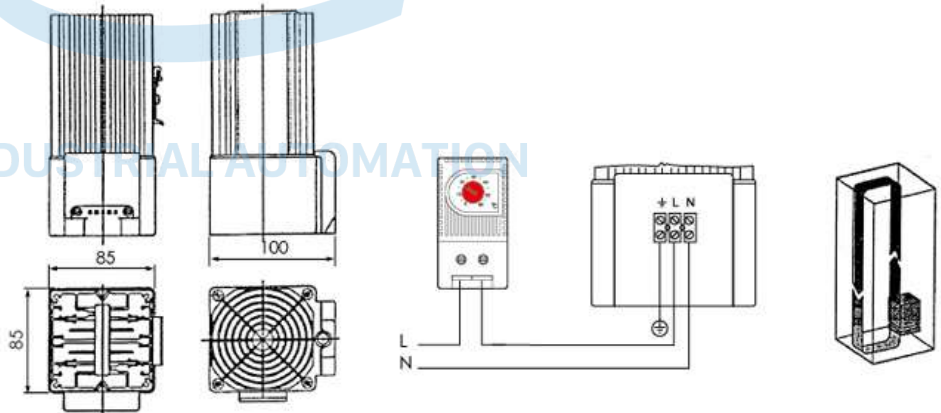
Protection class

IP20

Compact electrical cabinet heater protection against the erosion of wet, high-performance integrated axial fan provides powerful air circulation, ensuring a smooth control cabinet temperature environment, the built-in terminal connectors more secure.



#### Dimensions



Model	Order	Heat output (W)	W×H×D(mm)	Weight (kg)
JRQ250	2020.008	250	85×182×85	1.1
JRQ350	2020.009	350	85×222×85	1.4

#### Technical data

Operating Voltage	230VAC 50/60 Hz
Heating element	Nickel-chromium wire
Temperature safety protection	In the case of fan failure overheat protection
Axial Fan Ball	AC: 45m <sup>3</sup> / h (50Hz) 54m <sup>3</sup> / h (60Hz)
Electrical connection	R200: 3X0.75mm <sup>2</sup> standard line of 0.5-2.5mm <sup>2</sup> cable
Connection terminal	UL94V <sub>0</sub>
Installation Requirements	Vertical
Operating / storage temperature	-45°C to +70°C

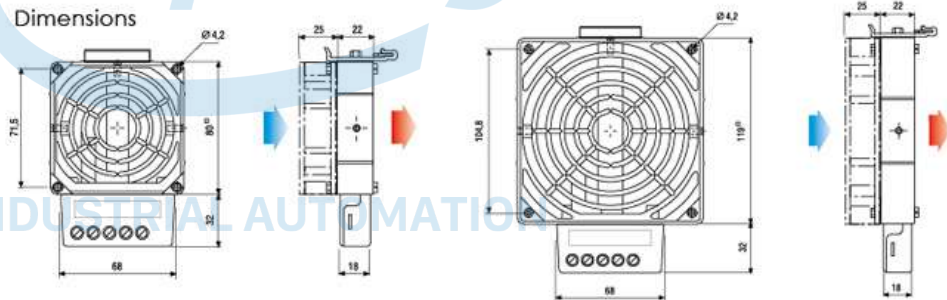


Certification	Case Material	Protection class
CE RoHS	Aluminum	IP20

Compact high-performance fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric/electronic components.



Dimensions



Model 230VAC,50/60Hz/ 120VAC,50/60Hz	Order	Heat output (W)	Pre-fuse T (time-delay) 230VAC / 120VAC	W×H×D(mm)	Weight (kg)
JRQFM100BA	2020.010	100W	1A/1.4A	80×112×22mm	0.4
JRQFM150BA	2020.011	150W	1.25A/2A	80×112×22mm	0.4
JRQFM200BA	2020.012	200W	1.4A/2.5A	119×151×22mm	0.5
JRQFM300BA	2020.013	300W	2A/4A	119×151×22mm	0.5

Technical data

Heating element	high performance cartridge
Temperature safety cut-out	to protect against overheating in case of fan failure, automatic reset
Heater body	die-cast aluminium (glass bead blasted)
Electrical connection	3-pole screw connector 2.5mm <sup>2</sup> , clamping torque 0.8Nm max
Connection casing	plastic according to UL94 V-0, black
Installation	clip for 35mm DIN rail, EN 60715
Fitting position	vertical airflow (air outlet up)
Operating / storage areas	-45°C~+75°C (-49°F~+158°F)
Operating / Storage humidity	max. 90% RH (non-condensing)
Protection class	IP20(earthed)
Axial fan, ball bearing	airflow see table service life 50,000h at 25°C (77°F)
Connection (axial fan)	2-pole screw connector 2.5mm <sup>2</sup> (L2/N2)

Certification	Case Material	Protection class
CE	Aluminum	IP20

JRQFM250BAP fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures.

- can be used under extreme conditions (- 40 °C...+ 70 °C)
- fan design with ball bearing: guaranteed long service life
- the heater is connected using the internal terminal connectors



Dimensions



INDUSTRIAL AUTOMATION

#### Technical data

Model	JRQFM250BAP
Order	2020.014
Heating performance (T <sub>v</sub> =+20°C)	250W
Rated voltage	230 V AC 50 / 60 Hz
Power consumption	261
Starting current	2.4A
Weight	1500g
Volumetric air flow	160m <sup>3</sup> /h
Protection class	IP 20
Operating temperature range	-40°C~+70°C (-40°F~+158°F)
Storage temperature range	-40°C~+70°C (-40°F~+158°F)
Type of mounting	M6 screw fastening

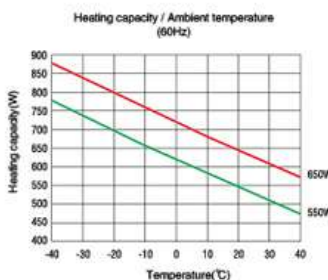
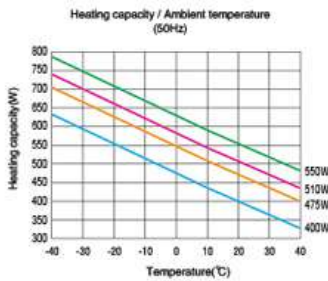
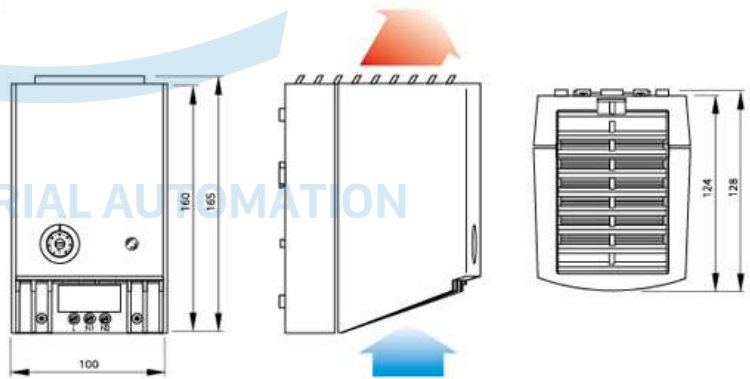
Certification	Case Material	Protection class
CE RoHS	Aluminum	IP20

- Compact heater
- Integrated thermostat
- Clip fixing
- Optical indicator
- Temperature safety cut-out

Semiconductor fan heater prevents formation of condensation and frost and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. The integrated thermostat is used to set the desired temperature.



#### Dimensions



Model	Order	Operating voltage	Heating capacity 50Hz	Heating capacity 60Hz	Inrush current max.	Pre-fuse T (time-delay) 230VAC, 120VAC	Airflow, free flow	Setting range Temp. regulator	Weight (approx.) (kg)
JRQFS650BA	2020.015	220-240VAC 50/60Hz	530-570W	630-670W	13.0A	8A	45m³/h	0~+60°C	1.1

#### Technical data

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	airflow see table 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
Optical indicator	thermostat control lamp
Mounting	clip for 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)
Operating / Storage humidity	max. 90% RH (non-condensing)
Protection class	IP20(double insulated)



Certification	Case Material	Protection class
CE	Aluminum	IP20

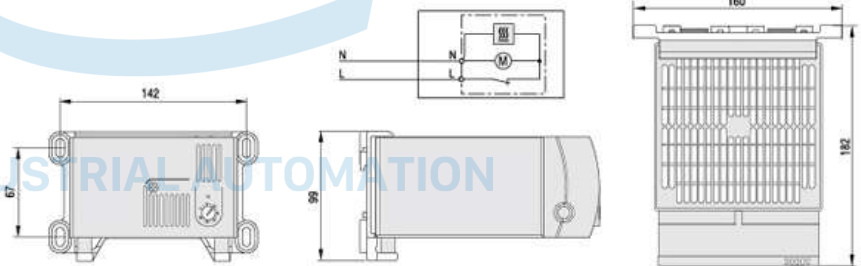
- Compact design
- Double insulated
- Integrated thermostat or hygrostat
- Optional clip or screw fixing

JRQFM250BAP fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures.

- can be used under extreme conditions (- 40 °C...+ 70 °C)
- fan design with ball bearing: guaranteed long service life
- the heater is connected using the internal terminal connectors



Dimensions



Model	Order	Operating voltage	Heating capacity	Inrush current max.	Pre-fuse T (time-delay) 230VAC, 120VAC	Setting range	Weight (approx.) (kg)
JRQFS800BAT	2020.017	230VAC, 50/60Hz	760-840W	13A	8A	0~+60°C	1.3
JRQFS1000BAT	2020.019	230VAC, 50/60Hz	950-1050W	13A	8A	0~+60°C	

#### Technical data

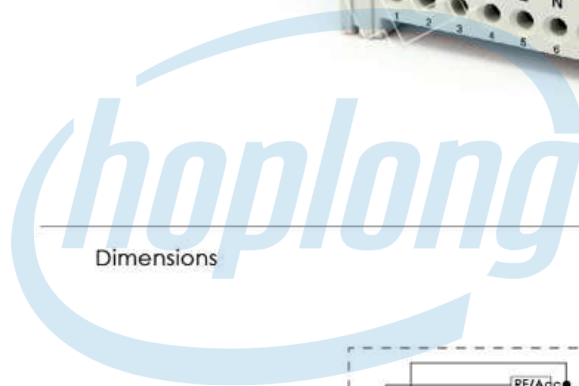
Heating element	PTC
Temperature safety cut-out	to protect against overheating in case of fan failure, automatic reset
Axial fan, ball bearing	airflow 160m³/h, free flow service life 50,000h at 25°C(77°F)
Connection	2-pole max. 2.5mm², clamping screw with strain relief, torque 0.8Nm max.
Casing	plastic 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	182x160x120mm
Operating / Storage temperature	-45°C~+70°C(-49°F~+158°F)
Operating / Storage humidity	max.90%RH(non-condensing)
Protection class	IP20(double insulated)

### Thermostat

Certification	Case Material	Protection class	Order
CE RoHS	ABS	IP20	2021.001

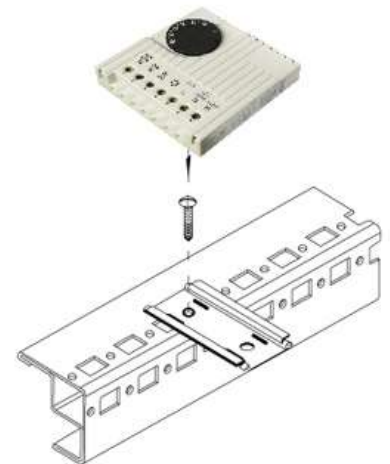
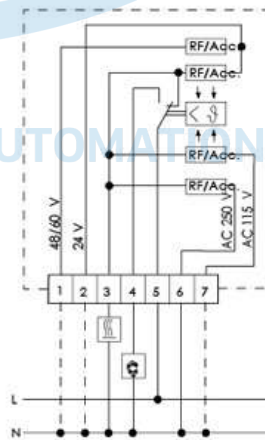
Especially for control of filter fans, heaters and heat exchangers, but also use the control panel to monitor internal temperature.

LEIPOLE



### Dimensions

48V 60V N	24V N			(L1*) L	(L2*) 250V N	115V N
1	2	3	4	5	6	7



### Technical data

Sensing element	Bimetallic
Shock configuration	Conversion of electric shock as a transient unipolar switching elements
Shock load permissible	K1.5-3 (heated) AC 10 (4) A, DC = 30W K1.5-4 (plus cooling) AC 5 (4) A, DC = 30W
Temperature adjustment range	+5°C to +60°C
Rated voltage	230/115/60/48/24V (AC) 60/48/24V direct current (DC)
Weight	105g
Size	71X71X33.5mm
Switching difference	About the positive and negative 0.8K 1K

### Thermostat

Certification	Case Material	Protection class
CE RoHS	ABS	IP20

Commonly used in the monitoring filter fans, heat exchangers or a single temperature exceeds a set value, the closed circuit output signal.

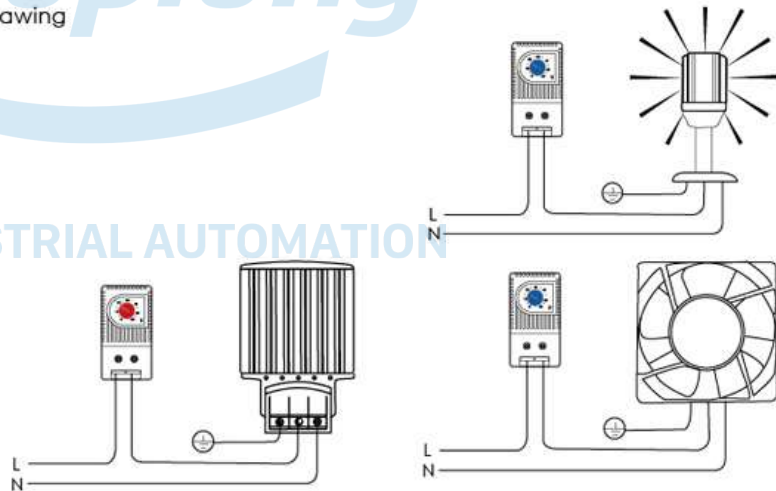
JWT6011F Thermostat (normally open): commonly used in the monitoring filter fans, heat exchangers, or when the temperature exceeds the set value, the closed circuit output signal.

JWT6011R thermostat (normally closed): commonly used in connecting the heater, when the temperature reaches the set value, the broken line.



Drawing

### INDUSTRIAL AUTOMATION



#### Technical data

Model	JWT6011F	JWT6011R
Order	2021.002	2021.003
Temperature range	0-60°C	
Status	JWT6011F normally open (blue) JWT6011R normally closed (red)	
Switching temperature tolerance	7K (± 4K)	
Sensing element	Bimetallic	
Maximum switching capacity	250VAC, 10 (2) A / 120VAC, 15 (2) A / DC 30W	
Electrical connection	2-pole 2.5mm, 0.8Nm	
Installation	35mm DIN rail mounting	
Terminal	UL94V <sub>0</sub>	
Size	60X33X43mm	
Operating / storage areas	20°C to +80°C	

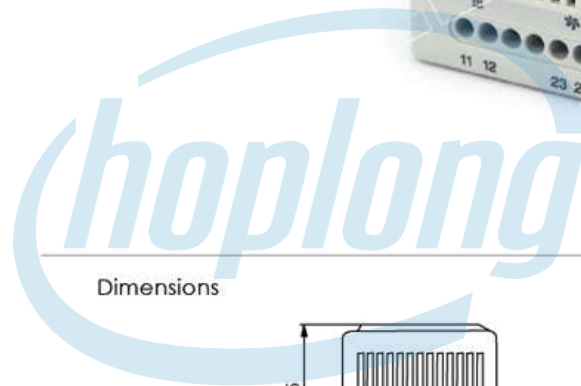


Certification	Case Material	Protection class	Order Code
CE RoHS	ABS	IP20	2021.004

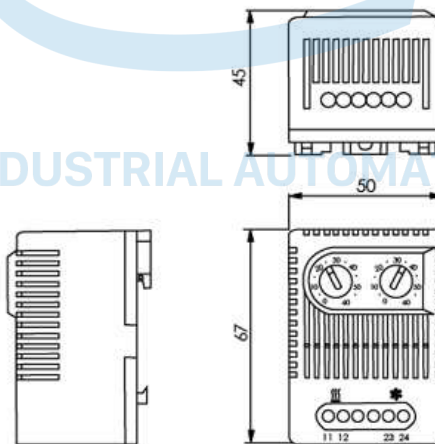
A thermostat with two temperature settings.

Normally Open contact: commonly used in the monitoring filter fans, heat exchangers, or when the temperature exceeds the set value, the closed circuit output signal.

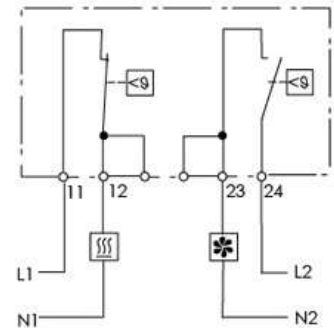
Normally Closed contact: commonly used in connecting the heater, when the temperature reaches the set value, the broken line.



Dimensions



INDUSTRIAL AUTOMATION

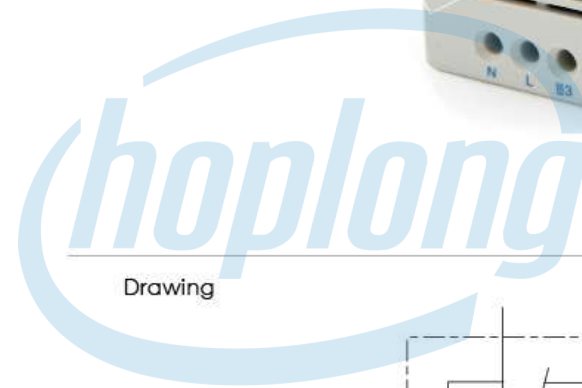


**Technical data**

Temperature range	0-60°C
Switching temperature tolerance	7K (± 4K)
Sensing element	Bimetallic
Maximum switching capacity	250VAC, 10 (2) A / 120VAC, 15 (2) A / DC 30W
Electrical connection	4-pole 2.5mm, 0.8Nm
Installation	35mm DIN rail mounting
Terminal	UL94V0
Weight	90g
Size	69X50X46mm
Operating / storage areas	20°C to +80°C

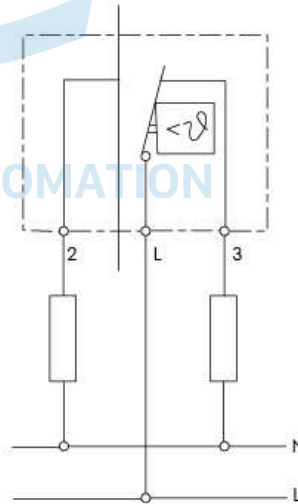
Certification	Case Material	Protection class	Order
CE RoHS	ABS	IP20	2021.005

Electromechanical humidity controller for the relative humidity exceeds 65%, by controlling the temperature inside the heater to improve, thus avoiding the occurrence of moisture and corrosion.



Drawing

INDUSTRIAL AUTOMATION



#### Technical data

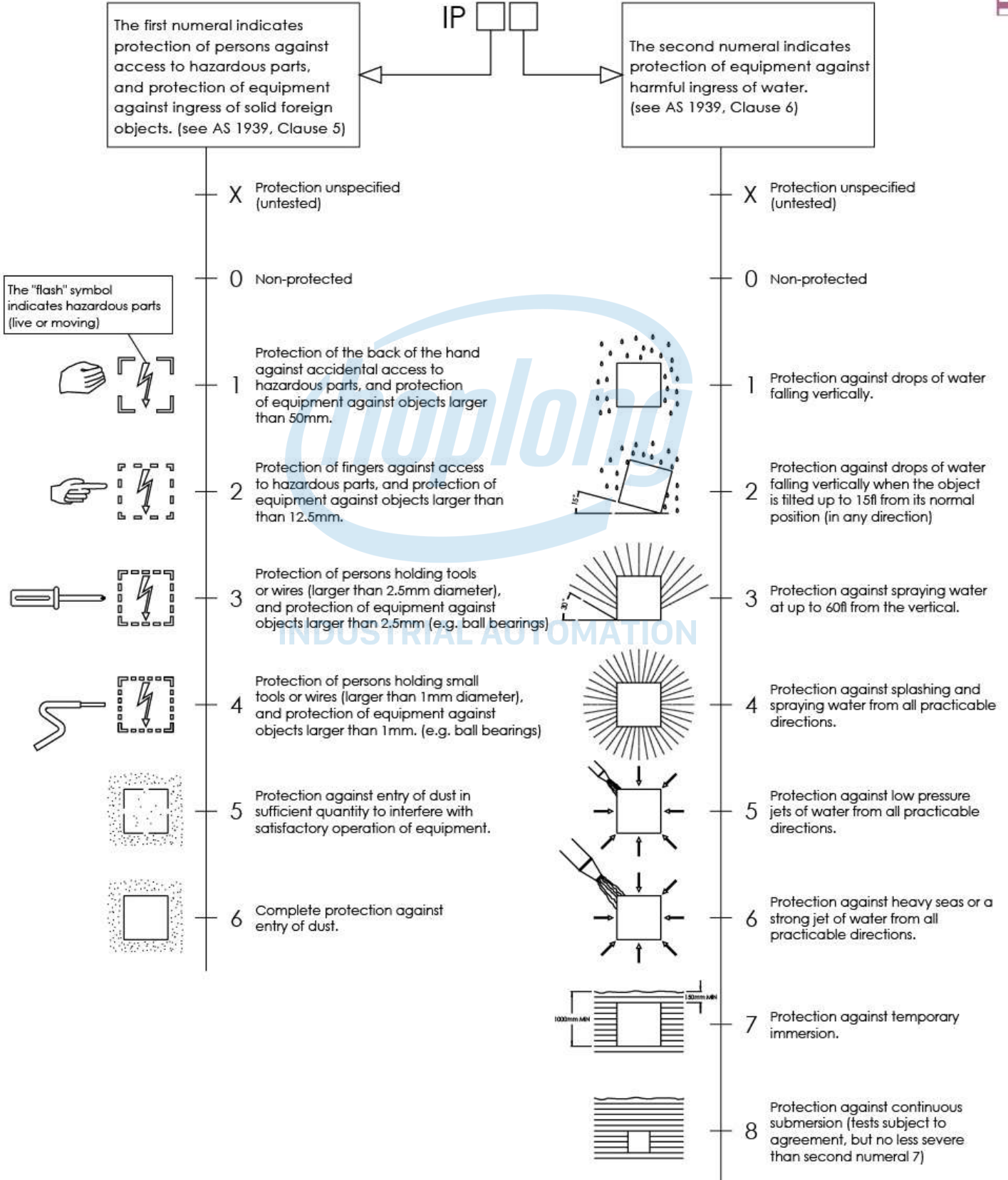
Operating humidity	30-90% RH
Switch tolerance	4% RH ( $\pm 3\%$ )
Allow air rate	15 m / s
Maximum switching capacity	250VAC, 5 (0.2) A / DC 20W
Electrical connection	3-pole 2.5mm, 0.8Nm
Installation	35mm DIN rail mounting
Terminals	UL94V0
Size	67X50X38mm
Operating / storage areas	-20°C to +80°C

## IP RATING CHART

Protection of persons and protection of equipment indicated by the IP code.

Protection provided by enclosures for electrical equipment is indicated by the IP codes two:

### CHARACTERISTIC NUMERALS







Show room



Processing workshop



Assembly lines



Walking Sijia



Plastic injection



Electrical pulse

2015~2016



INDUSTRIAL AUTOMATION

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