

# Exhaust with Filter



- \* Filters dust and reduces buildup inside the enclosure.
- \* Protects internal components from dust, insects, and foreign particles.
- \* Extends the service life of the fan and internal electronics.
- \* Minimizes cabinet maintenance and ensures reliable operation.
- \* Provides cleaner airflow, ideal for dusty environments.



# IL-FF106.230

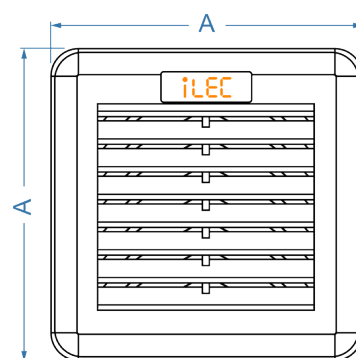
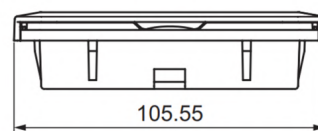
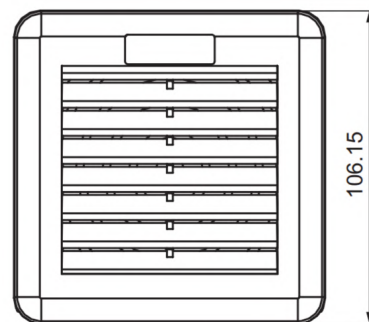


## Technical Specifications

Axial fan with aluminum housing, metal motor, ball bearing with a minium service life of 50.000 hours.

Rated voltage	230VAC - 50/60Hz
Power consumption	14W
Current consumption	0.07A
Noise level	30dB
Airflow	23/39 m³/h
Operating temperature	25°C ~ 65°C
Storage temperature	-40°C ~ 70°C
Ambient Humidity	Max. 90% RH (non-condensing)
Protection class	IP54 (Insulated); Class I (grounded)
Included fan	IF-80-B-230
Overall dimension	106 x 106 x 61 mm
Cut-out dimension	92 x 92 mm
Filter mat	G4 according to DIN EN 779, filtering degree 94%
Housing material	ABS plastic
Filter material	Synthetic fiber
Color	RAL 7035

## Filter dimension



## Cut-out dimension

IL-FF-A(mm)	Cut-Out Size (mm)
106	92 x 92
150	125 x 125
200	176 x 176
250	223 x 223
322	291 x 291



# IL-FF150.230

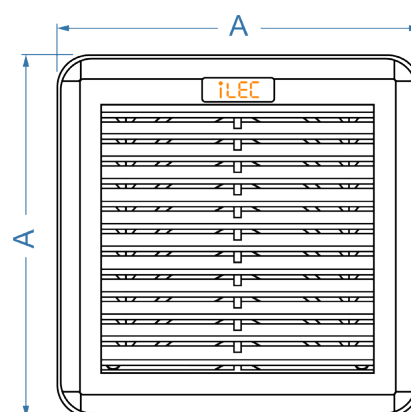
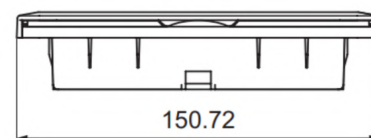
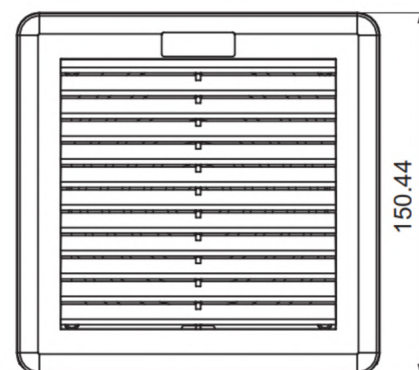


## Technical Specifications

Axial fan with aluminum housing, metal motor, ball bearing with a minium service life of 50.000 hours.

Rated voltage	230VAC - 50/60Hz
Power consumption	21W
Current consumption	0.12A
Noise level	48dB
Airflow	95/162 m³/h
Operating temperature	25°C ~ 65°C
Storage temperature	-40°C ~ 70°C
Ambient Humidity	Max. 90% RH (non-condensing)
Protection class	IP54 (Insulated); Class I (grounded)
Included fan	IF-120-B-230
Overall dimension	150 x 150 x 80 mm
Cut-out dimension	125 x 125 mm
Filter mat	G4 according to DIN EN 779, filtering degree 94%
Housing material	ABS plastic
Filter material	Synthetic fiber
Color	RAL 7035

## Filter dimension



## Cut-out dimension

IL-FF-A(mm)	Cut-out size (mm)
106	92 x 92
150	125 x 125
200	176 x 176
250	223 x 223
322	291 x 291

# IL-FF200.230

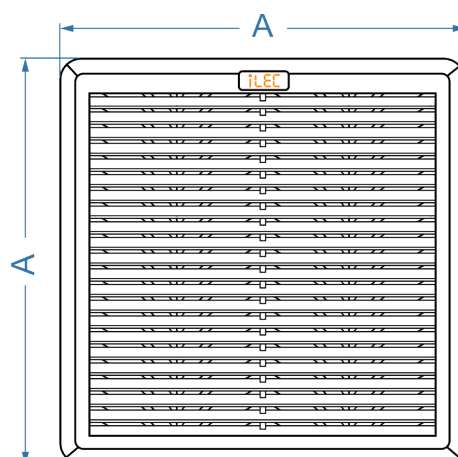
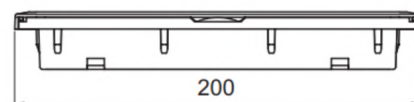
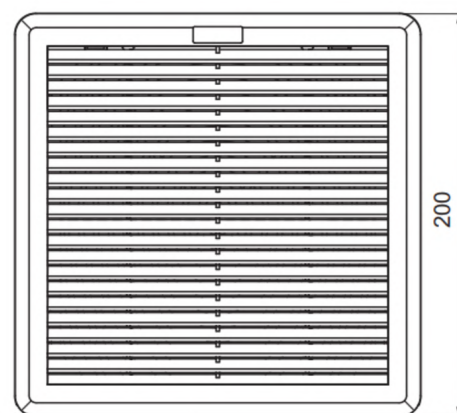


## Technical Specifications

Axial fan with aluminum housing, metal motor, ball bearing with a minium service life of 50.000 hours.

Rated voltage	230VAC - 50/60Hz
Power consumption	21W
Current consumption	0.12A
Noise level	48dB
Airflow	95/162 m³/h
Operating temperature	25°C ~ 65°C
Storage temperature	-40°C ~ 70°C
Ambient Humidity	Max. 90% RH (non-condensing)
Protection class	IP54 (Insulated); Class I (grounded)
Included fan	IF-120-B-230
Overall dimension	200 x 200 x 83 mm
Cut-out dimension	176 x 176 mm
Filter mat	G4 according to DIN EN 779, filtering degree 94%
Housing material	ABS plastic
Filter material	Synthetic fiber
Color	RAL 7035

## Filter dimension



## Cut-out dimension

IL-FF-A(mm)	Cut-out size (mm)
106	92 x 92
150	125 x 125
200	176 x 176
250	223 x 223
322	291 x 291

# IL-FF250.230

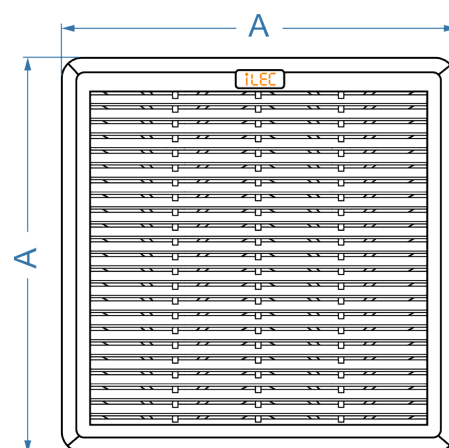
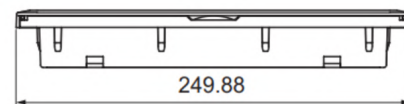
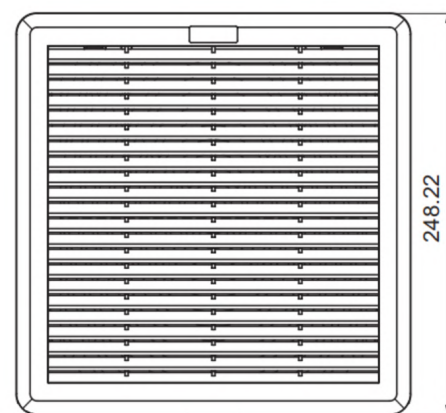


## Technical Specifications

Axial fan with aluminum housing, metal motor, ball bearing with a minium service life of 50.000 hours.

Rated voltage	230VAC - 50/60Hz
Power consumption	30.6W
Current consumption	0.23A
Noise level	59dB
Airflow	198/336 m³/h
Operating temperature	25°C ~ 65°C
Storage temperature	-40°C ~ 70°C
Ambient Humidity	Max. 90% RH (non-condensing)
Protection class	IP54 (Insulated); Class I (grounded)
Included fan	IF-170-B-230
Overall dimension	248 x 248 x 95 mm
Cut-out dimension	223 x 223 mm
Filter mat	G4 according to DIN EN 779, filtering degree 94%
Housing material	ABS plastic
Filter material	Synthetic fiber
Color	RAL 7035

## Filter dimension



## Cut-out dimension

IL-FF-A(mm)	Cut-out-size (mm)
106	92 x 92
150	125 x 125
200	176 x 176
250	223 x 223
322	291 x 291

# USER MANUAL

## Installation:

- Cut the mounting opening on the enclosure according to the cut-out template provided inside the package.
- Install the filter unit into the prepared opening.

(This model does not require screws for mounting, as it is equipped with a quick snap-in locking system).

## Electrical Connection:

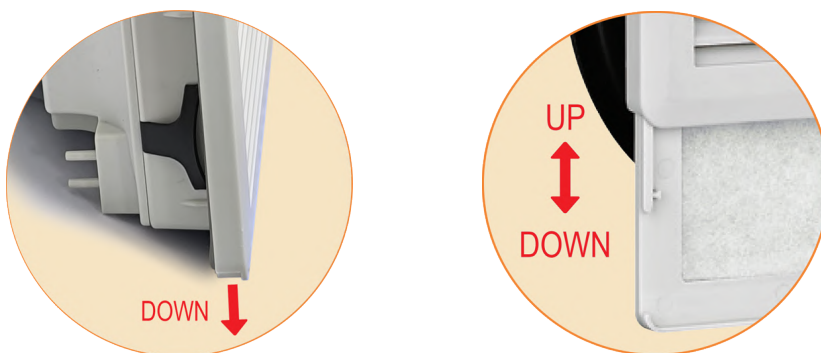
- Ensure that the supply voltage and frequency match the rated values indicated on the product label.
- Electrical connections must comply with applicable standards and local electrical safety regulations.

**Note:** A clogged filter reduces fan performance, resulting in poor or insufficient airflow.

## Filter Replacement:

### **Replacement procedure:**

- Slide the front cover downward, remove and replace the internal filter mat, then slide the cover upward to close.



### **Cleaning:**

- The filter mat can be cleaned by washing, spraying with water, or gently blowing with compressed air.
- The cleaning interval depends on the working environment and the equipment usage frequency.

**Lưu ý:** A clogged filter reduces the performance of the fan, resulting in poor ventilation or even complete loss of airflow.

## Applications:

Exhaust fans with filters are widely used in control cabinets, junction boxes, power distribution cabinets, electrical and electronic equipment, automation devices, welding machines, packaging machines, etc...

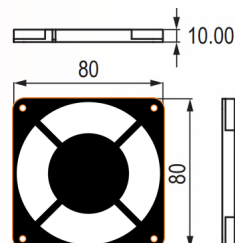


# Exhaust Fan



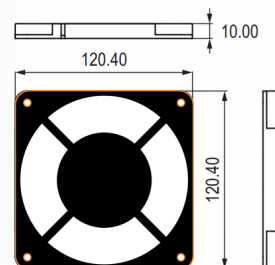
## IF-80-B-230

Rated voltage : 230 VAC - 50/60 Hz  
 Power consumption : 14 W  
 current consumption : 0.14A  
 Noise level : 27/30 dB  
 Airflow : 39/48 m³/h



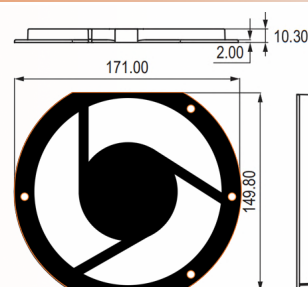
## IF-120-B-230

Rated voltage : 230 VAC - 50/60 Hz  
 Power consumption : 21/18 W  
 current consumption : 0.14/0.12 A  
 Noise level : 43/48 dB  
 Airflow : 138/162 m³/h



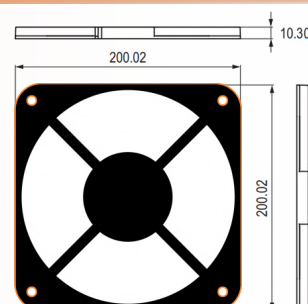
## IF-170-B-230

Rated voltage : 230 VAC - 50/60 Hz  
 Power consumption : 26/28 W  
 current consumption : 0.23/0.20 A  
 Noise level : 54/50 dB  
 Airflow : 299/336 m³/h



## IF-200-B-230

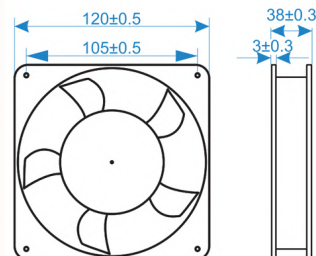
Rated voltage : 230 VAC - 50/60 Hz  
 Power consumption : 60 W  
 current consumption : 0.3 A  
 Noise level : 65/70 dB  
 Airflow : 780/890 m³/h





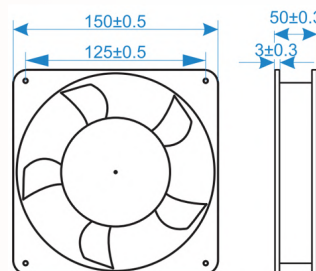
### AF-120-S-A230

Bearing type	: Sleeve bearing
Voltage	: 230 VAC, 50/60 Hz
Power consumption	: 21 W
Rated current	: 0.14 A
Noise level	: 40 dB
Airflow	: 110 m³/h
Speed	: 2600 rpm
Static pressure	: 45 pa
Weight	: 440g
Design standard	: IEC61858 Grade F



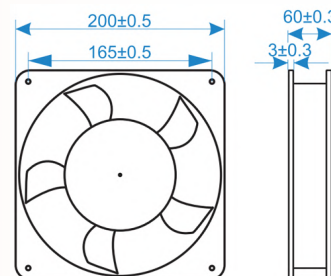
### AF-150-S-A230

Bearing type	: Sleeve bearing
Voltage	: 230 VAC - 50/60 Hz
Power consumption	: 37 W
Rated current	: 0.20 A
Noise level	: 55 dB
Airflow	: 220 m³/h
Speed	: 2600 rpm
Static pressure	: 160 pa
Weight	: 860g
Design standard	: IEC61858 Grade F



### AF-200-S-A230

Bearing type	: Sleeve bearing
Voltage	: 230 VAC - 50/60 Hz
Power consumption	: 65 W
Rated current	: 0.45 A
Noise level	: 58 dB
Airflow	: 450 m³/h
Speed	: 2600 rpm
Static pressure	: 380 pa
Weight	: 1150g
Design standard	: IEC61858 Grade F





# FILTER UNIT

## Front-mounted filter for cooling fan

### ■ Outer-housing:

Made of high-quality ABS plastic with high mechanical strength, heat resistance and anti-aging properties. Suitable for industrial environment.

### ■ Filter media:

Foam synthetic fiber with effective dust filtration, helping to prevent dust and foreign particles from entering the electrical enclosure.

### ■ Rubber gasket / Sealing frame:

Provide a tight seal between the filter and enclosure, preventing air leakage. Reduces dust ingress through mounting edges, minimizes vibration and operating noise.

### ■ Protective cover:

Ventilated grille design ensures safety without restricting airflow, while protecting the internal filter layer.

### ■ Function:

Enables air exchange between the inside and outside of the enclosure when used with an exhaust fan for cooling, while protecting equipment from dust and environmental contaminants.

### ■ Maintenance:

Filter media is easy to remove for clearing or replacement, reducing maintenance time.

### ■ Applications:

Suitable for electrical cabinets, control panels, and distribution board, especially in dusty environments.



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