# FILTER FAN PLUS FPI/FPO 018 | up to 24m³/h (92 x 92mm)



**SYSTEM FPI** 

warm

cold

- > New air-flap outlet technology for high airflow
- > Easy mounting
- > Protection type test/Environmental rating by independent testing institutes (VDE and UL)
- > Two systems for optimal airflow (FPI/FPO)
- > Standard enclosure cut-out sizes (5 sizes)
- > One filter mat

Filter fans are used to provide an optimum climate in enclosures and cabinets with electrical/electronic components. The interior temperature of an enclosure can be reduced by channelling cooler filtered outside air into the enclosure thus expelling heated internal air. The resulting airflow prevents formation of localised hot pockets in installations and protects electronic components from overheating.

The Filter Fan Plus series uses a new air-flap outlet technology for the air outlet and thus reaches a high degree of airflow. A ratchet mechanism is used for mounting and provides high stability and tightness. Depending on the application there are two systems that are available – the FPI or FPO system. The FPI system is a standard installation with a filter fan in the lower part of the enclosure which ensures that fresh air is fed into the enclosure (airflow direction "In"). This system consists of a filter fan and exit filter. Whereas in the FPO system, the filter fan is located in the upper area of the enclosure to avoid heat buildups (airflow direction "Out"). The FPO system is composed of an intake filter and exit filter fan. The Filter Fan Plus series has been designed for indoor use.



#### TECHNICAL DATA

Axial fan, ball bearing	service life L10 at +40°C (+104°F): min. 50,000h fan body aluminium, rotor metal
Connection	2 stranded wires, 300mm
Casing, hood, flaps	plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)
Enclosure cut-out	92 x 92*1mm
Mounting frame	4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4mm). Additional use of screws possible if needed'.
Filter mat	G3 acc. to DIN EN 779, average arrestance $\rm A_a$ 84%
Filter material	synthetic fibre with progressive construction, temperature resistant to +100°C, self-extinguishing class F1, moisture resistant to 100% RH, reusable
Operating/Storage temperature	-40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP54 / I (earthed)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

<sup>1</sup> Drilling marks for screw mounting are indicated on mounting frame.

#### AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Air-flaps

Filter mat

Exit Filter FPI 118

Filter Fan FPI 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Filter mat
01870.0-30	AC 230V, 50/60Hz	19m³/h	13m³/h	70mA	12W	39dB	66mm	0.6kg	G3
01870.9-30	AC 115V, 50/60Hz	23m <sup>3</sup> /h	16m³/h	115mA	11W	43dB	66mm	0.6kg	G3

#### AIRFLOW DIRECTION "IN": EXIT FILTER FPI 118

Art. No.	Depth in enclosure	Weight (approx.)	Air outlet	
11870.0-00	29mm	0.2kg	air-flap outlet technology	



#### AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with intake filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Air outlet
01880.0-00	AC 230V, 50/60Hz	24m³/h	15m³/h	70mA	12W	38dB	72mm	0.6kg	air-flaps
01880.9-00	AC 115 V, 50/60 Hz	32 m³/h	19 m³/h	115 mA	12 W	41 dB	72 mm	0.6 kg	air-flaps

#### AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Art. No.	Depth in enclosure	Weight (approx.)	Filter mat
11880.0-30	22mm	0.2kg	G3 acc. to DIN EN 779, average arrestance $\rm A_a$ 84%

#### FILTER MAT FM 086

Filter class	84 x 84mm	Average arrestance A <sub>a</sub>	1 packing unit
G3 acc. to DIN EN 779	Art. No. 08633.0-00	84%	5 pieces

#### TECHNICAL DRAWINGS





FPI 018

0 92

FPI 118





# FILTER FAN PLUS FPI/FPO 018 | up to 97m<sup>3</sup>/h (124 x 124mm)



**SYSTEM FPI** 

warm

cold

- > New air-flap outlet technology for high airflow
- > Easy mounting
- > Protection type test/Environmental rating by independent testing institutes (VDE and UL)
- > Two systems for optimal airflow (FPI/FPO)
- > Standard enclosure cut-out sizes (5 sizes)
- > One filter mat

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#### **TECHNICAL DATA**

Axial fan, ball bearing	service life L10 at +40 °C (+104 °F): min. 37,000 h fan body aluminium, rotor metal
Connection	2 stranded wires, 160mm
Casing, hood, flaps	plastic according to UL94 V-O, light grey; UV light resistant according to UL746C (f1)
Enclosure cut-out	124 x 124 <sup>+1</sup> mm
Mounting frame	4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4mm). Additional use of screws possible if needed'.
Filter mat	G3 acc. to DIN EN 779, average arrestance $\rm A_a$ 84%
Filter material	synthetic fibre with progressive construction, temperature resistant to +100°C, self-extinguishing class F1, moisture resistant to 100% RH, reusable
Operating/Storage temperature	-40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP54 / I (earthed)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

<sup>1</sup> Drilling marks for screw mounting are indicated on mounting frame.

#### AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Air-flaps

Filter mat

Exit Filter FPI 118

Filter Fan FPI 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Filter mat
01871.0-30	AC 230V, 50/60Hz	52m³/h	42m³/h	120mA	19W	49dB	66mm	0.8kg	G3
01871.9-30	AC 115V, 50/60Hz	62m <sup>3</sup> /h	51m <sup>3</sup> /h	230mA	18W	53dB	66mm	0.8kg	G3

#### AIRFLOW DIRECTION "IN": EXIT FILTER FPI 118

Art. No.	Depth in enclosure	Depth in enclosure Weight (approx.)	
11871.0-00	35mm	0.3kg	air-flap outlet technology





#### AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with intake filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Air outlet
01881.0-00	AC 230V, 50/60Hz	97m³/h	47m³/h	120mA	19W	49dB	79mm	0.9kg	air-flaps
01881.9-00	AC 115V, 50/60Hz	117m³/h	58m³/h	230mA	18W	52dB	79mm	0.9kg	air-flaps

#### AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Art. No.	Depth in enclosure	Weight (approx.)	Filter mat
11881.0-30	22mm	0.2kg	G3 acc. to DIN EN 779, average arrestance $\rm A_a$ 84%

#### FILTER MAT FM 086

Filter class	118 x 118mm	Average arrestance A <sub>a</sub>	1 packing unit
G3 acc. to DIN EN 779	Art. No. 08634.0-00	84%	5 pieces

#### **TECHNICAL DRAWINGS**



FPI 018









# FILTER FAN PLUS FPI/FPO 018 | up to 263 m<sup>3</sup>/h (176 x 176mm)



- > New air-flap outlet technology for high airflow
- > Easy mounting
- > Protection type test/Environmental rating by independent testing institutes (VDE and UL)
- > Two systems for optimal airflow (FPI/FPO)
- > Standard enclosure cut-out sizes (5 sizes)
- > One filter mat

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#### **TECHNICAL DATA**

Axial fan, ball bearing	service life L10 at +40°C (+104°F): min. 65,000h fan body aluminium, rotor metal
Connection	3-pole clamp for 2.5mm <sup>2</sup> , clamping torque 0.8Nm max.
Casing, hood, flaps	plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)
Enclosure cut-out	176 x 176*1 mm
Mounting frame	4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4mm). Additional use of screws possible if needed <sup>1</sup> .
Filter mat	G3 acc. to DIN EN 779, average arrestance $\rm A_a84~\%$
Filter material	synthetic fibre with progressive construction, temperature resistant to +100°C, self-extinguishing class F1, moisture resistant to 100% RH, reusable
Operating temperature	50 Hz: -25 to +50°C (-13 to +122°F) 60 Hz: -25 to +70°C (-13 to +158°F)
Storage temperature	-40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP54 / I (earthed)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

<sup>1</sup> Drilling marks for screw mounting are indicated on mounting frame.

#### AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Air-flaps

Filter mat

Exit Filter FPI 118

ilter Fan FPI 018

**SYSTEM FPI** 

warm

cold

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Filter mat
01872.0-30	AC 230V, 50/60Hz	170m³/h	139m³/h	310/250mA	45W	55dB	117mm	1.6kg	G3
01872.9-30	AC 115V, 50/60Hz	204m <sup>3</sup> /h	187m³/h	560/470mA	38W	58dB	117mm	1.6kg	G3

#### AIRFLOW DIRECTION "IN": EXIT FILTER FPI 118

Art. No.	Depth in enclosure	Weight (approx.)	Air outlet	
11872.0-00	43mm	0.4kg	air-flap outlet technology	



#### AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with intake filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Air outlet
01882.0-00	AC 230V, 50/60Hz	263m³/h	137m³/h	310/250mA	45W	56dB	117mm	1.6kg	air-flaps
01882.9-00	AC 115V, 50/60Hz	313m³/h	166m³/h	560/470mA	38W	60dB	117mm	1.6kg	air-flaps

#### AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Art. No.	Depth in enclosure	Weight (approx.)	Filter mat
11882.0-30	25mm	0.4kg	G3 acc. to DIN EN 779, average arrestance $\rm A_{a}$ 84%

#### FILTER MAT FM 086

Filter class	168 x 168mm	Average arrestance A <sub>a</sub>	1 packing unit
G3 acc. to DIN EN 779	Art. No. 08635.0-00	84%	5 pieces



0 176

FPI 118









# FILTER FAN PLUS FPI/FPO 018 | up to 536m³/h (223 x 223mm)



**SYSTEM FPI** 

warm

cold

- > New air-flap outlet technology for high airflow
- > Easy mounting
- Protection type test/Environmental rating by independent testing institutes (VDE and UL)
- > Two systems for optimal airflow (FPI/FPO)
- > Standard enclosure cut-out sizes (5 sizes)
- > One filter mat

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#### TECHNICAL DATA

Axial fan, ball bearing	service life L10 at +40 °C (+104°F): min. 56,000h rotor metal
Connection	3-pole clamp for 2.5mm <sup>2</sup> , clamping torque 0.8Nm max.
Casing, hood, flaps	plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)
Enclosure cut-out	223 x 223 <sup>+1</sup> mm
Mounting frame	4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4mm). Additional use of screws possible if needed'.
Filter mat	G3 acc. to DIN EN 779, average arrestance $\mathrm{A}_{\mathrm{a}}84\%$
Filter material	synthetic fibre with progressive construction, temperature resistant to +100°C, self-extinguishing class F1, moisture resistant to 100% RH, reusable
Operating temperature	-25 to +65°C (-13 to +149°F)
Storage temperature	-40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 75% RH (non-condensing)
Protection type/Protection class	IP54 / I (earthed)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

<sup>1</sup> Drilling marks for screw mounting are indicated on mounting frame.

#### AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Air-flaps

Filter mat

Exit Filter FPI 118

Filter Fan FPI 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Filter mat
01873.0-30	AC 230V, 50/60Hz	305m³/h	271m³/h	300/340mA	64W	64dB	147mm	2.4kg	G3
01873.9-30	AC 115V, 50/60Hz	332m <sup>3</sup> /h	293m <sup>3</sup> /h	600/700mA	81W	67dB	147mm	2.4kg	G3

#### AIRFLOW DIRECTION "IN": EXIT FILTER FPI 118

Art. No.	Depth in enclosure	Weight (approx.)	Air outlet	
11873.0-00	46mm	0.6kg	air-flap outlet technology	

# 28.04.2016 | Specifications are subject to change without notice. Errors and omissions excepted. Suitability of this product for its intended use and any associated risks must be determined by the end customer/buyer in its final application.



#### AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with intake filter	Current consumption (50/60 Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Air outlet
01883.0-00	AC 230V, 50/60Hz	536m³/h	281m³/h	300/340mA	64W	65dB	147mm	2.4kg	air-flaps
01883.9-00	AC 115V, 50/60Hz	581m³/h	310m³/h	600/700mA	81W	68dB	147mm	2.4kg	air-flaps

#### AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Art. No.	Depth in enclosure	Weight (approx.)	Filter mat
11883.0-30	25mm	0.5kg	G3 acc. to DIN EN 779, average arrestance A <sub>a</sub> 84%

#### FILTER MAT FM 086

Filter class	215 x 215mm	Average arrestance A <sub>a</sub>	1 packing unit
G3 acc. to DIN EN 779	Art. No. 08636.0-00	84%	5 pieces

#### TECHNICAL DRAWINGS





FPI 018

FPI 118







# FILTER FAN PLUS FPI/FPO 018 | up to 727m³/h (291 x 291mm)



- > New air-flap outlet technology for high airflow
- > Easy mounting
- > Protection type test/Environmental rating by independent testing institutes (VDE and UL)
- > Two systems for optimal airflow (FPI/FPO)
- > Standard enclosure cut-out sizes (5 sizes)
- > One filter mat

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#### TECHNICAL DATA

Axial fan, ball bearing	service life L10 at +40°C (+104°F): min. 76,000h rotor metal
Connection	3-pole clamp for 2.5mm <sup>2</sup> , clamping torque 0.8Nm max.
Casing, hood, flaps	plastic according to UL94 V-0, light grey; UV light resistant according to UL746C (f1)
Enclosure cut-out	291 x 291 <sup>+1</sup> mm
Mounting frame	4 built-in ratchet braces for mounting (6 notches for wall thickness 1 – 4mm). Additional use of screws possible if needed¹.
Filter mat	G3 acc. to DIN EN 779, average arrestance $\rm A_a$ 84%
Filter material	synthetic fibre with progressive construction, temperature resistant to +100°C, self-extinguishing class F1, moisture resistant to 100% RH, reusable
Operating temperature	50 Hz: -25 to +55°C (-13 to +131°F) 60 Hz: -25 to +35°C (-13 to +95°F)
Storage temperature	-40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 75% RH (non-condensing)
Protection type/Protection class	IP54 / I (earthed)
Environmental rating UL/NEMA	UL TYPE 12 / NEMA 12
Approvals	VDE, UL File No. E234324, EAC
Note	other voltages on request

<sup>1</sup> Drilling marks for screw mounting are indicated on mounting frame.

#### AIRFLOW DIRECTION "IN": FILTER FAN FPI 018

Air-flaps

Filter mat

Exit Filter FPI 118

Filter Fan FPI 018

**SYSTEM FPI** 

warm

cold

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Filter mat
01874.0-30	AC 230V, 50/60Hz	433m³/h	373m³/h	400/480mA	95W	62dB	160mm	3.1kg	G3
01874.9-30	AC 115V, 50/60Hz	394m <sup>3</sup> /h	339m³/h	660/800mA	90W	61dB	160mm	3.1kg	G3

#### AIRFLOW DIRECTION "IN": EXIT FILTER FPI 118

Art. No.	Depth in enclosure	Weight (approx.)	Air outlet
11874.0-00	50mm	1.0kg	air-flap outlet technology



#### AIRFLOW DIRECTION "OUT": FILTER FAN FPO 018

Art. No.	Operating voltage	Air volume, free flow	Air volume with intake filter	Current consumption (50/60Hz)	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Weight (approx.)	Air outlet
01884.0-00	AC 230V, 50/60Hz	727m³/h	413m³/h	400/480mA	95W	63dB	160mm	3.2kg	air-flaps
01884.9-00	AC 115V, 50/60Hz	703m³/h	391m³/h	660/800mA	90W	62dB	160mm	3.2kg	air-flaps

#### AIRFLOW DIRECTION "OUT": INTAKE FILTER FPO 118

Art. No.	Depth in enclosure	Weight (approx.)	Filter mat
11884.0-30	25 mm	0.8 kg	G3 acc. to DIN EN 779, average arrestance $\rm A_a$ 84 %

#### FILTER MAT FM 086

Filter class	283 x 283mm	Average arrestance A <sub>a</sub>	1 packing unit
G3 acc. to DIN EN 779	Art. No. 08637.0-00	84%	5 pieces

#### **TECHNICAL DRAWINGS**





FPI 018





FPO 118 FPO 018



45



FPI 118

## **OUTDOOR FILTER FAN** FF 018



> Filter changeable from outside

> Safe, lockable

> Impact resistant

**TECHNICAL DATA** 

The outdoor filter fan can be used in outdoor enclosures where warm air has to be dissipated on account of increased thermic development. The plastic casing is weather proof and resistant to UV light. To clean and exchange the filter mat, it is only necessary to open the lockable door of the outdoor hood.

#### Outdoor Filter Fan





#### OUTDOOR FILTER FAN FF 018

Art. No.	Operating voltage	Air volume, free flow	Current consumption	Power consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Enclosure cut-out	Weight (approx.)	Approvals		
01821.0-00	230VAC, 50Hz	20m³/h	100mA	15W	40dB (A)	62mm	125 x 125mm + 0.4	1.2kg	VDE	UL File No. E234324	EAC
01821.0-02	120VAC, 60Hz	23m³/h	180mA	15W	40dB (A)	62mm	125 x 125mm + 0.4	1.2kg	-	UL File No. E234324	EAC

#### **EXIT FILTER EF 118**

Art. No.	Depth in enclosure	Enclosure cut-out	Weight (approx.)	Filter mat	Protection type
11821.0-00	16mm	125 x 125mm + 0.4	0.6kg	M5 acc. to DIN EN 779, filtering degree 98%	IP55

#### FILTER MAT FFM 086

Filter mat	122 x 122mm
M5 (1 packing unit = 3 pcs.)	Art. No. 08607.0-00



> Weather proof and UV resistant

Axial fan, ball bearing	service life 50,000h at +25°C (+77°F), 65% RH fan body aluminium, rotor plastic
Connection	2 wires with pressure clamps 2.5mm <sup>2</sup> , length 100mm
Casing (filter fan and exit filter)	plastic according to UL94 V-0, light grey
Hood (filter fan and exit filter)	plastic according to UL94 V-O, light grey; weather proof and UV light resistant according to UL746C (f1)
Mounting frame	with double-sided industrial adhesive band for fixing to the outside of enclosure; certain operating circumstances can make the additional use of screws necessary (see drilling template); a template for the enclosure cut-out is included in the delivery of the filter fans
Filter mat	M5 acc. to DIN EN 779, filtering degree 98%
Filter material	synthetic fibre with progressive construction, temperature resistant to +100°C, self-extinguishing class F1, moisture resistant to 100% RH
Operating/Storage temperature	-10 to +70°C (+14 to +158°F) / -40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP55 / I (earthed)

Note: The hood is fixed permanently to the enclosure from the inside using screws. Filter mats can be easily changed from outside the enclosure through the lockable door in the hood.

# ROOF FILTER FAN RFP 018 | 300m³/h, 500m³/h





Photo: Art. No. 01861.0-00

Roof Filter Fan (01860.0-XX)



#### Roof Filter Fan (01861.0-XX)



- > Very low noise
- > Minimal depth in enclosure
- > High through-flow air volume
- > High reliability
   > Time-saving installation and mat exchange

Roof filter fans find use in enclosures and housings, from which warm air has to be diverted to lower the internal temperature. These low-noise roof filter fans are used to expel warm air from within the enclosure which has been generated by the stray power of the components and so protects the internal devices from overheating. To exchange the filter mat the hood can be easily opened without tools. The roof exit filter provides passive ventilation.

### TECHNICAL DATA

Axial fans, ball bearing	service life 50,000h at +25°C (+77°F), 65% RH fan body aluminium, rotor plastic
Connection	3-pole clamp for 2.5mm <sup>2</sup> , clamping torque 0.8Nm max.
Casing	plastic according to UL94 V-0, light grey; weather proof and UV light resistant according UL746C (f1)
Filter mat	G3 acc. to DIN EN 779, filtering degree 85%
Filter material	synthetic fibre with progressive construction, temperature resistant to +100°C, self-extinguishing class F1, moisture resistant to 100% RH, reusable - cleaning by washing or vacuuming
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP32 / I (earthed)
Approvals	EAC, VDE (230VAC only), UL intended

**Important note:** For reasons of pressure compensation the roof filter fan must always be operated in combination with a passive intake filter (e.g. Art. No. 11803.0-00) or another filter fan (e.g. Art. No. 01803.0-00).



#### ROOF FILTER FAN RFP 018

Art. No.	Operating voltage	Air volume, free flow	Current consumption	Average noise level (DIN EN ISO 4871)	Depth in enclosure	Enclosure cut-out	Weight (approx.)	Operating / Storage temperature
01860.0-00	230VAC, 50Hz	300m <sup>3</sup> /h	68W	55dB (A)	52mm	250 x 250mm + 0.4	3.3kg	-10 to +70°C (+14 to +158°F) /
								-40 to +70°C (-40 to +158°F)
01861.0-00	230VAC, 50Hz	500m <sup>3</sup> /h	64W	67dB (A)	107mm	250 x 250mm + 0.4	2.6kg	-25 to +70°C (-13 to +158°F)
01860.0-02	120VAC, 60Hz	345m³/h	60W	55dB (A)	52mm	250 x 250mm + 0.4	3.3kg	-10 to +70°C (+14 to +158°F) /
								-40 to +70°C (-40 to +158°F)
01861.0-02	120VAC, 60Hz	575m³/h	85W	67dB (A)	107mm	250 x 250mm + 0.4	2.6kg	-25 to +70°C (-13 to +158°F)

#### **ROOF EXIT FILTER REP 118**

Art. No.	Depth in enclosure	Enclosure cut-out	Weight (approx.)	Filter mat	Protection type
11860.0-00	11mm	250 x 250mm + 0.4	1.0kg	G3 acc. to DIN EN 779, filtering degree 85%	IP32

#### FILTER MAT FM 086

Filter mat	282 x 282mm
G3 (1 packing unit = 3 pcs.)	Art. No. 08613.0-01

## **HIGH-PERFORMANCE 19" FAN TRAY** LE 019



> High air output> Long service life> Ball bearing fans

Ready for connectionOptical function indicator

Compact high performance fan tray for enforced circulation of air in switch and server enclosures and for concerted cooling of 19" component groups. Natural convection is improved and the formation of localised hot pockets is avoided. Also available with integrated thermostat (see photo).







#### TECHNICAL DATA

Axial fans, ball bearing	service life 50,000h at +25°C (+77°F), 65% RH
Material	front panel aluminium, bright anodised casing steel sheet, electrogalvanized
Optical indicator	integrated in front panel
Connection	appliance power inlet on rear of casing, plug included
Fitting position	vertical airflow (air outlet up)
Operating/Storage temperature	-10 to +60°C (+14 to +140°F) / -40 to +70°C (-40 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type/Protection class	IP20 / I (earthed)

**Use in 19" enclosures:** We recommend using the fan tray without integrated thermostat in combination with our dual thermostat (ZR 011 Art. No. 01176.0-00) for regulating temperature in electronic enclosures and for protection against over-heating due to possible fan failure.

The dual thermostat regulates the operation of the fan tray and – when connected to a signal device – also triggers an early warning if the enclosure interior temperature rises above a set limit. When using a fan tray with integrated thermostat, the use of an additional thermostat (KTS 011 Art. No. 01147.9-00) provides the extra safety of activating a signal device.

Art. No.	Thermostat	No. of fans	Operating voltage	Air volume, free flow	Power consumption	Average noise level (DIN EN ISO 4871)	Speed (rpm)	Weight (approx.)	Approvals	
01930.0-00	without	3	230VAC, 50Hz	486m³/h	45W	55db (A)	2600 rpm (50Hz)	3.0kg	UL File No. E234324	EAC
01930.1-00	0 to +60°C	3	230VAC, 50Hz	486m³/h	45W	55db (A)	2600 rpm (50Hz)	3.4kg	UL File No. E234324	EAC
01940.0-00	without	6	230VAC, 50Hz	972m³/h	90W	57db (A)	2600 rpm (50Hz)	5.3kg	UL File No. E234324	EAC
01940.1-00	0 to +60°C	6	230VAC, 50Hz	972m³/h	90W	57db (A)	2600 rpm (50Hz)	5.7kg	UL File No. E234324	EAC
01950.0-00	without	9	230VAC, 50Hz	1458m³/h	135W	58db (A)	2600 rpm (50Hz)	7.8kg	UL File No. E234324	EAC
01950.1-00	0 to +60°C	9	230VAC, 50Hz	1458m³/h	135W	58db (A)	2600 rpm (50Hz)	7.9kg	-	EAC
01931.0-00	without	3	120VAC, 60Hz	576m³/h	45W	55db (A)	2900 rpm (60Hz)	3.0kg	UL File No. E234324	EAC
01931.1-00	0 to +60°C	3	120VAC, 60Hz	576m³/h	45W	55db (A)	2900 rpm (60Hz)	3.4kg	UL File No. E234324	EAC
01941.0-00	without	6	120VAC, 60Hz	1152m³/h	90W	57db (A)	2900 rpm (60Hz)	5.3kg	UL File No. E234324	EAC
01941.1-00	0 to +60°C	6	120VAC, 60Hz	1152m³/h	90W	57db (A)	2900 rpm (60Hz)	5.7kg	-	EAC
01951.0-00	without	9	120VAC, 60Hz	1728m³/h	135W	58db (A)	2900 rpm (60Hz)	7.8kg	UL File No. E234324	EAC
01951.1-00	0 to +60°C	9	120VAC, 60Hz	1728m³/h	135W	58db (A)	2900 rpm (60Hz)	7.9kg	-	EAC

# **STEGOJET** SJ 019



- > Prevents heat pockets
- > Wide voltage range
- > Compact design

> Quick connection> Clip or screw fixing

The STEGOJET is a compact, powerful built-in-fan. It allows precise cooling of heat sources and the air flow prevents formation of heat pockets. Its design offers a maximum rotation range with an air output in almost any direction. On one hand the dual clip system (two clips in a 90° angle) allows four different positions on a DIN rail, while on the other hand the hinge in the housing can be moved in a 40° angle. The airflow at the air outlet can also be directed in a 45° angle and the air duct can be rotated in steps of 60°.





#### TECHNICAL DATA

Axial fan, ball bearing	air flow 27.6m³/h, free flow service life 40,000h at +60°C (+140°F), 90% RH
Power consumption	4W
Connection	2-pole dual pressure clamp for rigid wire 2.5mm <sup>2</sup> , stranded wire (with wire end ferrule) 1.5mm <sup>2</sup>
Casing	plastic according UL94 V-0, black
Mounting	clip for 35mm DIN rail, EN 60715 or screw fixing (M5), torque 2Nm max., washers have to be used
Fitting position	variable
Dimensions	132 x 75 x 60mm
Weight	approx. 0.2kg
Operating/Storage temperature	-10 to +60°C (+14 to +140°F)/-30 to +70°C (-22 to +158°F)
Operating/Storage humidity	max. 90% RH (non-condensing)
Protection type	IP20



Art. No.	Model	Operating voltage	Protection class	Approvals		
01925.0-00	Clip fixing	100-240VAC, 50/60Hz (min. 90VAC, max. 265VAC)	II (double insulated)	VDE	UL File No. E234324	EAC
01925.0-01	Screw fixing	100-240VAC, 50/60Hz (min. 90VAC, max. 265VAC)	II (double insulated)	VDE	UL File No. E234324	EAC
01925.1-00	Clip fixing	24VDC (min. 12VDC, max. 26.4VDC)	III (double insulated)	VDE	-	EAC
01925.1-01	Screw fixing	24VDC (min. 12VDC, max. 26.4VDC)	III (double insulated)	VDE	-	EAC