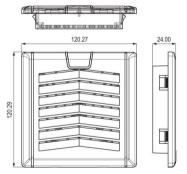
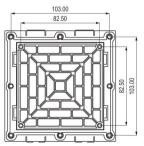
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NTL-FF120 | up to 24m3/h









- New air-flap outlet technology for high airflow
- Easy mounting
- Protection type test/Environmental rating by independent testing institutes
- Standard enclosure cut-out sizes (5 sizes)
- One filter mat

Fan filters 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 Fan filter 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. The 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.

Technical Data

C€ R⊗HS ISO9001 Patent

NTL-FF120		
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 ⁺¹ mm	
Mounting frame	4 built-in ratchet braces for mounting (6 notches for wall thickness 1-4mn Additional use of screws possible if needed ¹ .	
Filter mat	G4 acc. to DIN EN 779, filtering degree 94%	
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)	
Note	other voltages on request	

¹ Drilling marks for screw mounting are indicated on mounting frame.

Airflow Direction "In": Fan Filter NTL-FF120

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Power consumption
860204	AC 230V, 50/60Hz	19m³/h	13m³/h	12W
860205	AC 110V, 50/60Hz	23m³/h	16m³/h	11W

Art. No.	Operating voltage	Air outlet	Depth in enclosure
860206	-	air-flap outlet technology	24mm

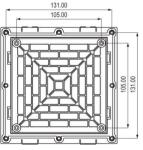
Fan Filter

NTL-FF152 | up to 97m³/h









- New air-flap outlet technology for high airflow
- Easy mounting
- Protection type test/Environmental rating by independent testing institutes
- Standard enclosure cut-out sizes (5 sizes)
- One filter mat

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Technical Data

C€ R⊗HS ISO9001 Patent

Toomiloar Data	CC Herio 1505001 Tatelli
NTL-FF152	
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-0, light grey; UV light resistant according to UL746C (f1)
Enclosure cut-out	124 x 124 ⁺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 ¹ .
Filter mat	G4 acc. to DIN EN 779, filtering degree 94%
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)
Note	other voltages on request

¹ Drilling marks for screw mounting are indicated on mounting frame.

Airflow Direction "In": Fan Filter NTL-FF152

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Power consumption
860207	AC 230V, 50/60Hz	52m³/h	42m³/h	19W
860208	AC 110V, 50/60Hz	62m³/h	51m³/h	18W

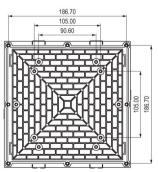
Art. No.	Operating voltage	Air outlet	Depth in enclosure
860209	-	air-flap outlet technology	24mm

NTL-FF204 | up to 263 m³/h









New air-flap outlet technology for high airflow

- Easy mounting
- Protection type test/Environmental rating by independent testing institutes
- Standard enclosure cut-out sizes (5 sizes)
- One filter mat

Fan filters 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.

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Technical Data

C€ R⊗HS ISO9001 Patent

Tooliinodi Bata	
NTL-FF204	
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 2.5mm², 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 ¹ .
Filter mat	G4 acc. to DIN EN 779, filtering degree 94%
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)
Note	other voltages on request

¹ Drilling marks for screw mounting are indicated on mounting frame.

Airflow Direction "In": Fan Filter NTL-FF204

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Power consumption
860210	AC 230V, 50/60Hz	170m³/h	123m³/h	45W
860211	AC 110V, 50/60Hz	204m³/h	187m³/h	38W

Art. No.	Operating voltage	Air outlet	Depth in enclosure
860212	-	air-flap outlet technology	24mm

Fan Filter

NTL-FF255 | up to 536m3/h





- New air-flap outlet technology for high airflow Easy mounting
- Protection type test/Environmental rating by independent testing institutes
- Standard enclosure cut-out sizes (5 sizes)
- One filter mat

Fan filters 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.

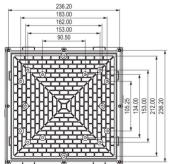
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Technical Data

C€ R⊗HS ISO9001 Patent

NTL-FF255	
Axial fan, ball bearing	service life L10 at +40°C (+104°F): min. 56,000h rotor metal
Connection	3-pole clamp for 2.5mm², 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 ⁺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 ¹ .
Filter mat	G4 acc. to DIN EN 779, filtering degree 94%
Filter material	synthetic fibre with progressive construction, temperature resistant to $+100^{\circ}$ 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)
Note	other voltages on request

¹ Drilling marks for screw mounting are indicated on mounting frame.



Airflow Direction "In": Fan Filter NTL-FF255

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Power consumption
860213	AC 230V, 50/60Hz	305m³/h	210m³/h	64W
860214	AC 110V, 50/60Hz	332m³/h	293m³/h	81W

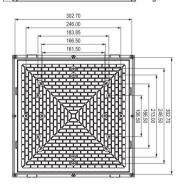
Art. No.	Operating voltage	Air outlet	Depth in enclosure
860215	-	air-flap outlet technology	24mm

NTL-FF323 | up to 727 m³/h





319.97



New air-flap outlet technology for high airflow

- Easy mounting
- Protection type test/Environmental rating by independent testing institutes
- Standard enclosure cut-out sizes (5 sizes)
- One filter mat

Fan filters 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.

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Technical Data

C€ R⊗HS ISO9001 Patent

- Toomioar Bata			
NTL-FF323			
Axial fan, ball bearing	service life L10 at +40°C (+104°F): min. 56,000h rotor metal		
Connection	3-pole clamp for 2.5mm ² , 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 ⁺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 ¹ .		
Filter mat	G4 acc. to DIN EN 779, filtering degree 94%		
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)		
Note	other voltages on request		

¹ Drilling marks for screw mounting are indicated on mounting frame.

Airflow Direction "In": Fan Filter NTL-FF323

Art. No.	Operating voltage	Air volume, free flow	Air volume with exit filter	Power consumption
860216	AC 230V, 50/60Hz	433m³/h	373m³/h	95W
860217	AC 110V, 50/60Hz	394m³/h	339m³/h	90W

Art. No.	Operating voltage	Air outlet	Depth in enclosure
860218	-	air-flap outlet technology	24mm