

\*We also offer products built to custom frame thicknesses for a wide range of filter media types. For more information, please contact our sales office.





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Specifications for all products herein are subject to change without notice. LLSC17-06 (06-09)

Long-lasting prefilters

# Long Life series

A wide selection of long life prefilters applicable to various environments

## Long life filter reduces maintenance costs.

The Long Life series of prefilters is offered in diversified types to provide products that best suit individual purposes and required collection efficiency. The prefilters include 1) washable and reusable types, 2) types with replaceable media, and 3) types free of metal. Choose the one that suites your air environment.



## Features Long life Wide Eco structure selection

Lineup of models in the Long Life series

Product	Туре	Collection efficiency*	Features	Page
NFJ Eco Long	Eco-friendly air filter	Colorimetric method 40% class	<ul> <li>No metal; allows disposal by incineration.</li> <li>The components produce no volatile organic compounds friendly both to people and the environment.</li> </ul>	2
NFP Long Life		Gravimetric method 20% class	The binder-free polypropylene honeycomb media is pleated.	
NFS Long Life		Gravimetric method 60% class	A media combining nonwoven fabric and a reinforcement net is pleated.	3
NFE Long Life	Integrated air filter	Gravimetric method 80% class	<ul> <li>The highly efficient filter also features long life.</li> <li>Made of nonwoven fabric sandwiching reinforcement net, the media is highly</li> </ul>	
BD Long Life		Gravimetric method 60 to 80% class	<ul> <li>The filter media is sandwiched by special wire mesh and pleated.</li> <li>A filter media-replaceable type is also available.</li> </ul>	
BG Long Life		Gravimetric method 60 to 80% class	<ul> <li>The filter media is provided in the form of deep bags for long life.</li> <li>A filter media-replaceable type is also available.</li> </ul>	4
NC Long Life		Gravimetric method 60 to 90% class	<ul> <li>A pleated wire mesh is installed in the frame to facilitate filter media replacement. The replacement filter media is pleated.</li> <li>The filter provides high sealing</li> </ul>	5
NA Long Life	Filter media-replaceable air filter	Gravimetric method 70 to 80% class	<ul> <li>Easy replacement of the filter media cuts maintenance costs.</li> </ul>	5
NT Long Life		Gravimetric method 90% class	<ul> <li>The filter media is fastened with a special spring.</li> <li>This is a low cost model.</li> </ul>	
NW Long Life		Gravimetric method 97% class	<ul> <li>The filter media is fastened to the frame with a special holder to facilitate replacement of the media.</li> <li>This is a low cost model.</li> </ul>	6

\* Product efficiency figures were obtained in accordance with the JIS B 9908:2001 Type 2 (colorimetric method) and Type 3 (gravimetric method).

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#### Applications

- General air conditioning in offices and hotels
- Prefilter for medium-to-high performance filters
- Cleans emitted air before releasing it into the external environment (e.g., factory air conditioning)
- Air supply to machines and devices

Eco-friendly air filter

#### Features

- 1. Produces no dioxins or other harmful substances when incinerated.
- 2. Offers higher performance and longer life than ordinary filters, reducing maintenance cost. 3. Uses no metal or plywood, making it lightweight and safe to handle.
- (See Components and materials below.)

#### Standard specifications

Droducting	Filter thickness	Efficiency	Standard size		Rated air flow rate	Initial pressure drop	Final pressure drop
Product no.	(mm)	(%)	(mm)	(mm) W × H		(Pa)	(Pa)
NFJ45-289			289	594	28	75	
NFJ45-492	45		492	492	39	67	
NFJ45-594		10 01 20 010	594	594	56	59	150
NFJ95-289		95	289	594	32	80	150
NFJ95-492	95		492	492	44	68	
NFJ95-594			594	594	63	59	

Product efficiency figures were obtained in accordance with the JIS B 9908:2001 Type 2 (colorimetric method).





#### Mounting frame: EC frame (connecting type)



#### 40% efficiency class by colorimetric method



(Non-standard sizes are available on request.)

#### Service condition

ltem	Condition
Maximum service temperature	60°C
Maximum service humidity	95% BH (no condensation)

#### Components and materials

-	
Frame	Colored paperboard (recycled paper)
Media	Non-woven synthetic fabric
Separator	Reinforced corrugated cardboard (recycled paper)
Sealant	Special adhesive

luct no	Frame size	Long Life filter size
iuct no.	(mm)	(mm)
45-510	510W×510H×70T	492W×492H×45T
45-610	610W×610H×70T	594W×594H×45T
45-305	305W×610H×70T	289W×594H×45T
95-510	510W×510H×70T	492W×492H×95T
95-610	610W×610H×70T	594W×594H×95T
95-305	305W×610H×70T	289W×594H×95T

(Non- standard sizes are available on request.)



## Integrated air filter

This filter can be built in various sizes of unit filters using the filter media that is easy to handle. The product is washable<sup>\*1</sup> for cost-effective operations. \*1 Applying an excessively powerful stream of water to the product may result in separation of the reinforcing net.

#### NFP Long Life

#### Features

1. The binder-free polypropylene honeycomb media is pleated. 2. Filters in thicknesses ranging from 15 mm to 50 mm are available.

#### Specifications

Product no.	Filter thickness (mm)	Increase in surface area (times)	Efficiency (%)	Reuse	Air velocity (m/sec)	Initial pressure drop (Pa)	Final pressure drop (Pa)
	15 1.5 20			4.9			
NFP Long Life	25	3	29	Reusable	1.5	4.4	30
	30	3	29			4.4	
	50	3	28			3.9	
	50	6	36			5.4	

#### Initial pressure drop data



#### Features

NFS Long Life

1. A media combining nonwoven fabric and reinforcement net is pleated.

2. Filters in thicknesses ranging from 25 mm to 50 mm are available.

3. Filter thicknesses of 25 mm and 50 mm (sixfold increase in surface area) meet standard specifications for public construction work. (The 25-mm filter is used for compact air conditioners.)

#### Specifications

Product no.	Filter thickness (mm)	Increase in surface area (times)	Efficiency (%)	Reuse	Air velocity (m/sec)	nitial pressure drop (Pa)	Final pressure drop (Pa)
	25	3	64	Reusable	le 2.5	24	- 100
NFS Long Life	30	3	64			24	
	50	3	64			20	
	6 69	69			29		

#### Initial pressure drop data







## NFE Long Life

#### Features

1. The filter offers long life and high efficiency.

- 2. Filter media is reinforced with net and highly resistant to impact.
- 3. The filter meets standard specifications for public construction work.

#### Specifications

Product no.	Filter thickness (mm)	Increase in surface area (times)	Efficiency (%)	Reuse	Air velocity (m/sec)	Initial pressure drop (Pa)	Final pressure drop (Pa)
NFE Long Life	50	3	85	Reusable	2.5	78	150

#### Initial pressure drop data

Filter thickness of 50 mm (threefold increase)

Components and materials





80% efficiency class by gravimetric method

Aluminum

**PP** net

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Special adhesive

-woven synthetic fabric

#### **BD** Long Life

#### Features

The media is sandwiched by special wire mesh, pleated, and highly resistant to impact.

#### Specifications

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Product no.	Filter thickness (mm)	Efficiency (%)	Media example (Product no.)	Reuse	Air velocity (m/sec)	Initial pressure drop (Pa)	Final pressure drop (Pa)
NFBD-PS150	50	60	PS/150N			26	
NFBD-PS300	65	70	PS/300N	Doucoblo	2.5	36	200
NFBD-PS400	85	70	PS/400N	Reusable	2.5	46	
NFBD-PS600	100	80	PS/600N			62	

Note: Filter media-replaceable types and filters with other media are available on request.

#### Initial pressure drop data



#### BG Long Life

#### Features

- 1. The filter offers long life and high efficiency.
- 2. Filters in thicknesses ranging from 200 mm to 300 mm are available.

#### Specifications

Product no.	Filter thickness (depth) (mm)	Efficiency (%)	Media example (Product no.)	Reuse	Air velocity (m/sec)	nitial pressure drop (Pa)	Final pressure drop (Pa)
NFBG-PS150	200	60	PS/150N			20	
NFBG-PS300	250	70	PS/300N	Reusable	2.5	34	200
NFBG-PS400	300	80	PS/400N			38	

Note: Filter media-replaceable types and filters with other media are available on request.

#### Initial pressure drop data





#### Components and materials

Frame	Aluminum/stainless steel
Media	Non-woven synthetic fabric
Separator	
Sealant	_



20% efficiency class by gravimetric method



#### 60 to 80% efficiency class by gravimetric method







#### NFBD-PS600



#### Components and materials

Frame	Aluminum/stainless steel
Media	Non-woven synthetic fabric
Separator	Aluminum/stainless steel
Sealant	Special adhesive

### 60 to 80% efficiency class by gravimetric method

#### Filter thickness of 250 mm







## 60 to 90% efficiency class by gravimetric method

#### Features

- 1. The filter media is pleated and easy to replace.
- Woven fabric carbon media can also be used.
- 2. Mesh is attached on both sides of the media to securely fasten the media and prevent air leaks. 3. The cover is vertically adjustable; a filter of a single thickness accommodates media of different
- thicknesses.

#### Specifications

Product no.	Filter thickness (mm)	Efficiency (%)	Media example (Product no.)	Reuse	Air velocity (m/sec)	Initial pressure drop (Pa)	Final pressure drop (Pa)
NFNC-PS150	50	60	PS/150N			32	
NFNC-PS300	65	70	PS/300N	Pourabla		47	
NFNC-PS400	85	70	PS/400N	neusable	2.5	57	200
NFNC-PS600	100	80	PS/600N			84	
NFNC-AE100	150	90	AE-100	Non- reusable		42	

Filter thickness of 65 mm

Filter thickness of 150 mm

\* Filters with other media are available on request.





#### Filter media replacement procedure







Insert both edges of the media into the hooks of the filter frame.



70 to 80% efficiency class by gravimetric method

Filter thickness of 85 mm

Components and materials

Stainless steel

Non-woven synthetic fabric

Stainless steel

Frame

Media

Separator

Reinforcement

Insert the fittings of the frame cover into space between the filter frame and its fittings. Tighten the four screws of the filter frame.

#### NA Long Life

#### Features

- 1. The filter media is placed in the frame and retained with the presser rods.
- 2. Available filter thicknesses include 50 mm and 100 mm.

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#### Specifications

NFNA-PS600

Specification	S					
Product no.	Filter thickness (mm)	Efficiency (%)	Media example (Product no.)	Reuse	Air velocity (m/sec)	nitial pressure dro (Pa)
NFNA-PS300	50	70	PS/300N			41

PS/600N

Reusable

2.5

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#### 100 \* Filters with other media are available on request.

#### Initial pressure drop data



#### Components and materials

components and materials						
Frame	Aluminum, bonderized plate (melamine baking coated)					
Media	Non-woven synthetic fabric					
Separator	_					
Reinforcement						

#### Filter media replacement procedure

59



Final pressure drop

(Pa)

200

#### NT Long Life

#### Features

1. The filter media is placed on the frame and fastened with the stopper pipes. 2. The filter thickness is 150 mm.

#### Specifications

Product no.	Filter thickness	Efficiency	Media example	Pouro	Air velocity	Initial pressure drop	Final pressure drop
	(mm)	(%)	(Product no.)	neuse	(m/sec)	(Pa)	(Pa)
NFNT-PE205	150	90	PE/205HL	Non- reusable	2.0	53	300

\* Filters with other media are available on request.

#### Initial pressure drop data



#### Filter media replacement procedure





Set the filter media using pipes starting with the 1st inflow side stopper pipe on the upper side (all inflow side stopper pipes are on the upper side).

Thread the filter media under over each of the upside and downside pipes alternately.

## NW Long Life

#### Features

- 1. The filter media is placed on the filter media holder first. The holder with the filter media (assembly) is fastened to the filter frame.
- 2. Filters in thicknesses 200 mm and 250 mm are available.

#### Specifications

Product no.	Filter thickness (mm)	Efficiency (%)	Media example (Product no.)	Reuse	Air velocity (m/sec)	nitial pressure drop (Pa)	Final pressure drop (Pa)
	200	07		Non rouseble	2.0	93	200
INFINW-PA305	250	97	PA/305HL	Non-reusable	2.0	98	300

#### \* Filters with other media are available on request.

#### Initial pressure drop data





#### Filter media replacement procedure



#### 90% efficiency class by gravimetric method



Components and materials				
Frame	Aluminum, bonderized plate (melamine baking coated)			
Media	Non-woven synthetic fabric			
Separator	—			
Delin ferrer ent				



Fasten the filter media to the last inflor side pipe on the upper side.

#### 97% efficiency class by gravimetric method



Filter thickness of 250 mm

#### Components and materials

Frame	Aluminum, ponderized plate (melamine baking coated)
Media	Non-woven synthetic fabric
Separator	
Reinforcement	—