

NEW



21st Century Type Filter

EAGLE

CARTRIDGE FILTERS

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EAGLE

After 30 years, since we first developed and market the reinforced plastic Cartridge Filter “ZERO” in the electronic industry, it has broadly improved the accuracy in filtration, greatly contributed in the improvement of safe operation of factories by eliminating leakage, rust and corrosion, and became a longtime selling filter.

Now, we are proud to introduce our 21st Century Type Filter “EAGLE”, which has been developed according to a totally new idea. “EAGLE” has expanded the advantage of “ZERO” Filter and completely eliminated the leakage problems. Also, we have improved the workability and improved the filtration efficiency by broadly increasing the filtration capacity. Furthermore, as a result of seeking to space saving design, we have achieved broad reduction of the installation area.

1

COMPLETE ELIMINATION OF LEAKAGE BY UNIQUE MOLDING TECHNIQUE.

As a result of the development of our original unique molding technique and the integration of the Housing Shell and Pump parts, we have achieved broad elimination of leakage.

2

PERFECT FILTRATION ACCURACY.

By using a Filter Cartridge that is able to set up the filtration accuracy with complete control, it is able to fully correspond to clarification. Also, you are able to select from broad range of Filter Cartridges, including standard equipped “CW”, depending on your solution types.

3

BROAD REDUCTION OF INSTALLATION AREA.

As a result of seeking to space-saving design, we have achieved broad reduction of installation area. Therefore, it makes it possible to install in smaller areas.

4

BROADLY INCREASED FILTRATION CAPACITY.

In order to meet the demands for the improvement of filtration efficiency, we have improved the pump performance, and as a result, we have achieved a broadly increased filtration capacity.

5

FREE FROM RUST AND CORROSION.

Based on 30 years of experience and technology, and with a good command of using materials of excellent chemical and thermal resistance, it will be operated safely with no rust and corrosion.

6

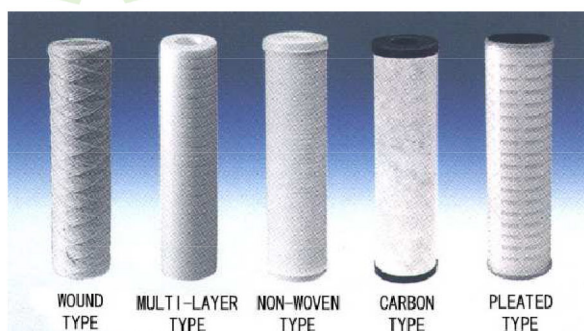
NEW ULTRA-LARGE MODEL 45.

To meet the demands of large volume baths, we have standardized the Ultra-Large Model 45. The overall height is relatively low and easy to handle.

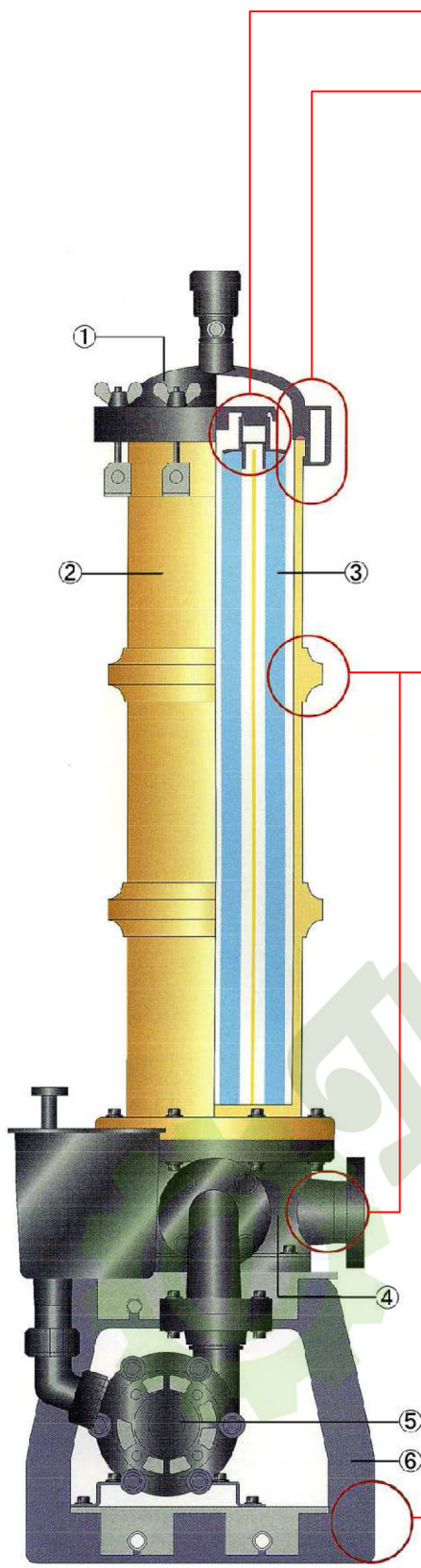
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THREE COMPLETE SERIES INCLUDING TRANSPARENT TYPE (A SERIES).

In addition to the previously launched black type filter (B Series), we have launched the transparent type filter (A Series) and strong acid bath resistant type filter (C Series). Also, the housings come in 3 complete series.



See the difference!



How convenient!

With the hinge top design (for medium and large size models), there is no need to take off the Housing Cover, and also, you are able to place the Pressing Board and nuts inside the Cover.



Tight sealing!

Thermal contraction of Filter Cartridges may be seen during continuous filtration by high temperature. By introducing spring seal method (for medium and large size), we have eliminated improper filtration by leakage of solution.



Free from leakage!

The gasket part of Housing Shell and the screw connection parts of Filter Bottom are integrated by our unique molding technique. This made it possible to eliminate leakage.



How space saving!

As a result of seeking to space-saving design, we have achieved broad reduction of installation area.

Installation area (m²)
(example : models 4~12)

former models 4~12

EGL - 4~12
(20.5% decrease)

MATERIAL CHART

Main Parts	Series	A Series	B Series	C Series
①Housing Cover		PPGF	PPGF	PVDF
②Housing Shell		polysulfone	PPGF	PVDF
③Filter Cartridge		polypropylene	polypropylene	polypropylene
④Housing Bottom		PPGF	PPGF	PVDF
⑤Magnetic Drive Pump		PPGF	PPGF	PVDF
⑥Filter Base		PPGF	PPGF	PPGF
Gaskets		ethylene-propylene rubber (EPT)	ethylene-propylene rubber (EPT)	fluorine rubber (FPM)

Remarks : ①PPGF : polupropylene + glass fiber
②PVDF : polyvinylidene fluoride

No leakage, broadly improved filtration capacity and minimized installation area.

A Transparent Type Series

- Visual inspection of filter operation.
- Visual inspection of air discharge.
- Outstanding chemical and thermal resistance.



EAGLE A SERIES STANDARD SPECIFICATION

MODEL		EGL-1-A	EGL-2-A	EGL-3-A	EGL-4-A	EGL-8-A	EGL-12-A
Capacity (w/water)		1500~2500L/h	1600~2700L/h	2200~3600L/h	3600~6000L/h	5700~13000L/h	8100~13500L/h
Applicable Tank Capacity		100~500L	150~600L	250~700L	400~1200L	800~2600L	1000~2700L
Qty. of Cartridge (CW series)		1L X 1pc	2L X 1pc	3L X 1pc	1L X 4pcs	2L X 4pcs	3L X 4pcs
Max. Operating Temp. (w/hot water)		80°C					
Pump/Motor (3-phase, 200V)		0.15kW			0.2kW	0.4kW	
Dimentions (mm)	Total Length	340			550		
	Total Width	265			395		
	Total Hight	670	920	1175	895	1155	1410
Net Weight (kg)		10.5	11	11.5	28	31	34
Inlet/Outlet Connections (Piping)		20A		25A		40A	

Remarks : ①Models 1-45 are standardized to be supplied with flange connection. Although, they are available with flange as options. (JIS 5K)
②Max. Operating Pressure si 0.25MPa (w/water) for all models. ③Please inform us when your solution gravity is >1.21.
④Hose connection is available on request as options. ⑤Net Weight does not include cartridges.
* Specification & appearance may be changed without prior notice.



EGL-16-A	EGL-24-A	EGL-30-A	EGL-45-A
11000~19000L/h	14000~23000L/h	17000~27000L/h	18000~30000L/h
1500~4000L	3000~5000L	3500~6500L	4000~7500L
2L X 8pcs	3L X 8pcs	2L X 15pcs	3L X 15pcs
80°C			
0.75kW	1.5kW		2.2kW
710		745	
465		540	
1270	1525	1360	1610
57	64	75	87
40A		Inlet 50A/Outlet 65A	

ORDERING CODE

EGL - ^①8 - ^②A - ^③5 - ^④CW10

① MODELS : 1~45

② SERIES : A

③ FREQUENCY : 50Hz → 5, 60Hz → 6

④ CARTRIDGE TO BE SUPPLIED WITH :

"CW" stands for wound cartridge of 10 micron rating.

● OPTION : Foot Valve, TS Flange,
Cartridge Bag for AC treatment,
Suction/Delivery Hose

Remarks : (1) Frequency is shown on the Model Identification Plate attached on the pump.

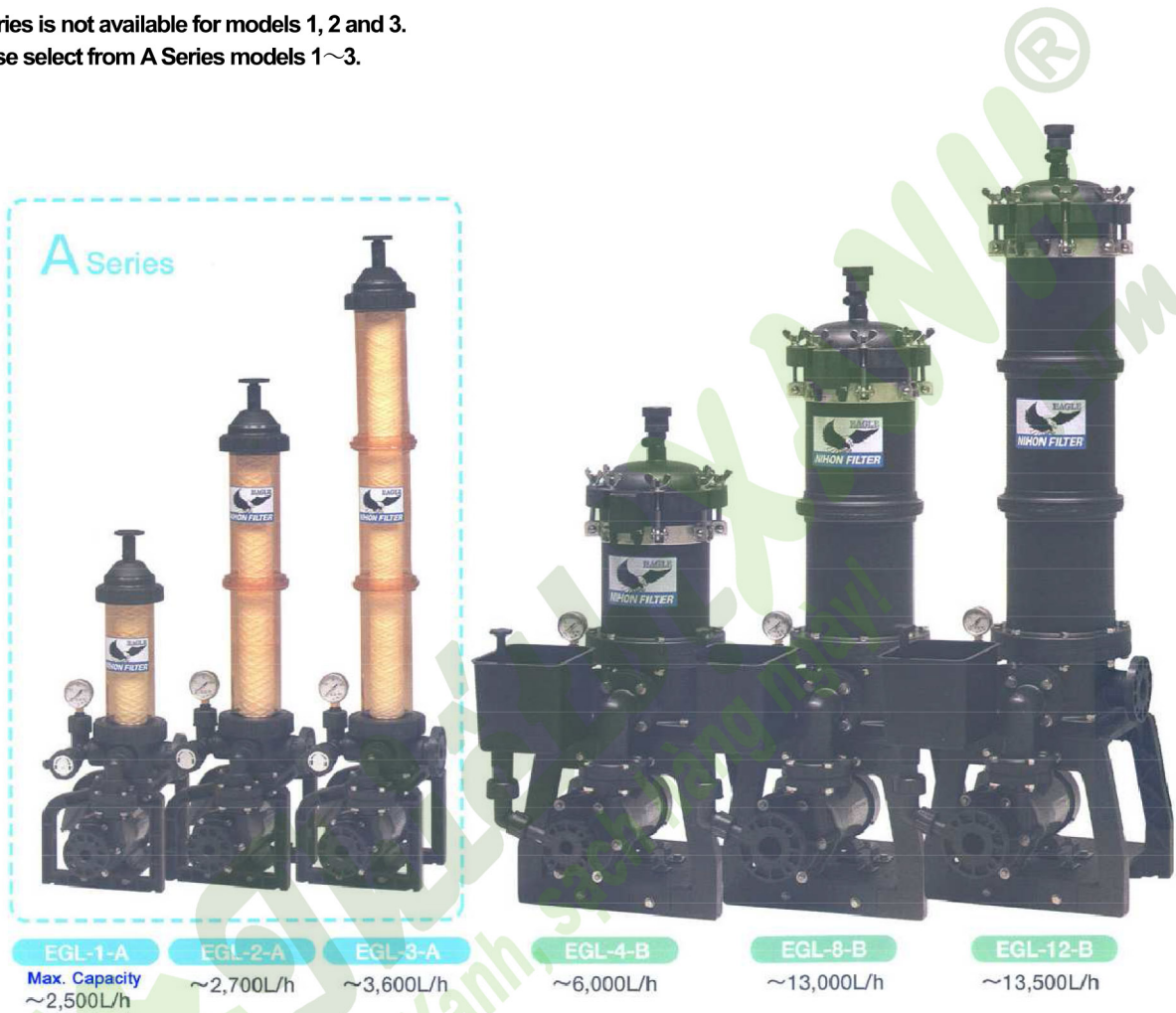
(2) Please advise us the kind and temperature of the solution to be handled when ordering.

No leakage, broadly improved filtration capacity and minimized installation area.

B Black Type Series

● Low cost type for practical use.

※ B Series is not available for models 1, 2 and 3.
Please select from A Series models 1~3.



EAGLE B SERIES STANDARD SPECIFICATION

MODEL		EGL-1-A	EGL-2-A	EGL-3-A	EGL-4-B	EGL-8-B	EGL-12-B
Capacity (w/water)		1500~2500L/h	1600~2700L/h	2200~3600L/h	3600~6000L/h	5700~13000L/h	8100~13500L/h
Applicable Tank Capacity		100~500L	150~600L	250~700L	400~1200L	800~2600L	1000~2700L
Qty. of Cartridge (CW series)		1L X 1pc	2L X 1pc	3L X 1pc	1L X 4pcs	2L X 4pcs	3L X 4pcs
Max. Operating Temp. (w/hot water)		80℃			70℃		
Pump/Motor (3-phase, 200V)		0.15kW			0.2kW	0.4kW	
Dimintions (mm)	Total Length	340			550		
	Total Width	265			395		
	Total Hight	670	920	1175	895	1155	1410
Net Weight (kg)		10.5	11	11.5	27	30	32
Inlet/Outlet Connections (Piping)		20A		25A		40A	

Remarks : ①Models 1-45 are standardized to be supplied with flange connection. Although, they are available with flange as options. (JIS 5K)
②Max. Operating Pressure si 0.25MPa (w/water) for all models. ③Please inform us when your solution gravity is >1.21.
④Hose connection is available on request as options. ⑤Net Weight does not include cartridges.
* Specification & appearance may be changed without prior notice.



EGL-16-B	EGL-24-B	EGL-30-B	EGL-45-B
11000~19000L/h	14000~23000L/h	17000~27000L/h	18000~30000L/h
1500~4000L	3000~5000L	3500~6500L	4000~7500L
2L X 8pcs	3L X 8pcs	2L X 15pcs	3L X 15pcs
70°C			
0.75kW	1.5kW		2.2kW
710	745		
465	540		
1270	1525	1360	1610
52	59	70	78
40A	Inlet 50A/Outlet 65A		

ORDERING CODE

EGL - ^①8 - ^②B - ^③5 - ^④CW10

- ① MODELS : 4~45
② SERIES : B

- ③ FREQUENCY : 50Hz → 5, 60Hz → 6
④ CARTRIDGE TO BE SUPPLIED WITH :
"CW" stands for wound cartridge of 10 micron rating.

- OPTION : Foot Valve, TS Flange,
Cartridge Bag for AC treatment,
Suction/Delivery Hose

NOTE : (1) Frequency is shown on the Model Identification Plate attached on the pump.
(2) Please advise us the kind and temperature of the solution to be handled when ordering.

No leakage, broadly improved filtration capacity and minimized installation area.

C Strong Acid Resistant Type Series

- Strongest acid resistant material. (PVDF)
- Strongest thermal resistance.
- Safety type.



EAGLE C SERIES STANDARD SPECIFICATION

MODEL		EGL-1-C	EGL-2-C	EGL-4-C	EGL-8-C
Capacity (w/water)		1500~2500L/h	1600~2700L/h	3600~6000L/h	5700~13000L/h
Applicable Tank Capacity		100~500L	150~600L	400~1200L	800~2600L
Qty. of Cartridge (CW series)		1L X 1pc	2L X 1pc	1L X 4pcs	2L X 4pcs
Max. Operating Temp. (w/hot water)		80℃			
Pump/Motor (3-phase, 200V)		0.15kW		0.2kW	0.4kW
Dimensions (mm)	Total Length	340		550	
	Total Width	265		395	
	Total Hight	670	920	890	1140
Net Weight (kg)		12	12.5	32	38
Inlet/Outlet Connections (Piping)		20A		25A	40A

Remarks : ①Models 1-45 are standardized to be supplied with flange connection. Although, they are available with flange as options. (JIS 5K)
②Max. Operating Pressure si 0.25MPa (w/water) for all models. ③Please inform us when your solution gravity is >1.21.
④Net Weight does not include cartridges.
* Specification & appearance may be changed without prior notice.



EGL-16-C	EGL-24-C	EGL-30-C	EGL-45-C
11000~19000L/h	14000~23000L/h	17000~27000L/h	18000~30000L/h
1500~4000L	3000~5000L	3500~6500L	4000~7500L
2L X 8pcs	3L X 8pcs	2L X 15pcs	3L X 15pcs
80°C			
0.75kW	1.5kW		2.2kW
710	710	745	
465	465	540	
1250	1495	1335	1580
66	73	85	95
40A		Inlet 50A/Outlet 65A	

ORDERING CODE

EGL - ^①8 - ^②C - ^③5 - ^④CW10

① MODELS : 1~45

② SERIES : C

③ FREQUENCY : 50Hz → 5, 60Hz → 6

④ CARTRIDGE TO BE SUPPLIED WITH :
"CW" stands for wound cartridge of 10 micron rating.

● OPTION : Foot Valve, TS Flange,
Cartridge Bag for AC treatment

NOTE : (1) Frequency is shown on the Model Identification Plate attached on the pump.

(2) Please advise us the kind and temperature of the solution to be handled when ordering.

EAGLE HOUSING (EGH)

EAGLE Series are also available as Filter Housings only (without base and pumps).

As a result of our unique molding technique, the Gaskets and treaded connection parts of Filter Bottom is free from leakage.

However, inlet and outlet Flange Connection, Pressure Gauge, Filter Cartridges and Base must be ordered additionally according to your needs.

Pumps come in many configurations including Magnetic Drive and Vertical Type.



A Series

Transparent Type

- Visual inspection of filter operation.
- Visual inspection of air discharge.
- Outstanding chemical and thermal resistance.



B Series

Black Type

- Low cost type for practical use.

EAGLE HOUSING (A/B SERIES) STANDARD SPECIFICATION

MODEL	EGH-1-A/B	EGH-2-A/B	EGH-3-A/B	EGH-4-A/B	EGH-8-A/B	EGH-12-A/B	EGH-16-A/B	EGH-24-A/B	EGH-30-A/B	EGH-45-A/B	EGH-60-A/B
Housing Cover/Filter Bottom	Glassfiber reinforced Polypropylene										
Housing Shell	A Series : Polysulfone					B Series : Glassfiber reinforced Plypropylene					
Gaskets	EPT										
Max. Operating Temperature	80℃			A Series : 80℃ B Series : 70℃							
Max. Operating Pressure	0.25MPa (at 25℃ with water) ※③										
Connections	20A		25A		40A				65A		80A
Total Hight (mm)	475	725	980	580	840	1095	910	1165	960	1210	1465
Total Width (mm)	230			355	360		465		510		520
Net Weight (kg)	2.5	3	4	11	14	16	25	30	35	41	50

Remarks : ① Connections: EGL-1 ~ 45 JIS 5K (applicable product) flange, EGL-60 JIS 10K.
 ② Dimension and net weight are only for A Series. ③ Max. Operating Pressure: The strength of molding resin will change depending on the solution temperature. For solutions over 25℃, please be sure to lower the Max. Operating Pressure.
 Example: 0.125MPa (at 70℃ with water), 0.11MPa (at 80℃ with water)

Parts to be Additionally Ordered (for A/B)



Flanged Connection

size	20A, 25A, 40A, 50A, 65A, 80A
material	PVC, HT-PVC

Drain Valve

size	20A
material	CPVC

Remarks : For Models 1-3, Drain Cock is applied.

Pressure Gauge

measuring range	0-0.4 Mpa
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Remarks : Available for all models.

Base

size	for 1-3, 4-12, 16-24, 30-60
material	PPGF

● Inlet/outlet pipe-flanged connection, drain valve, pressure gauge, filter cartridge, base etc., are options.



Series

- Strongest acid resistant material. (PVDF)
- Strongest thermal resistance.
- Safety type.

MODEL	EGH-1-C	EGH-2-C	EGH-4-C	EGH-8-C	EGH-16-C	EGH-24-C	EGH-30-C	EGH-45-C
Housing Cover/Filter Bottom	PVDF							
Housing Shell	PVDF							
Gaskets	FPM							
Max. Operating Temperature	95℃							
Max. Operating Pressure	0.25MPa (at 25℃ with water) ※②							
Connections	20A		25A	40A			65A	
Total Hight (mm)	465	710	575	825	890	1135	935	1180
Total Width (mm)	225		345	350	455		495	
Net Weight (kg)	3.5	4	14	18	32	38	48	57

Remarks : ①Connections:EGL-1~45 JIS 5K(applicable product) flange, EGL-60 JIS 10K
③Max. Operating Pressure: The strength of molding resin will change depending
the solution temperature. For solutions over 25°C, please be sure to lower the
Max. Operating Pressure. Example : 0.105MPa (at 95°C with water)



measuring range	0-0.4 Mpa
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Remarks : Available for all models.

size	for 1·2, 4·8, 16·24, 30·45
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material	PPGF
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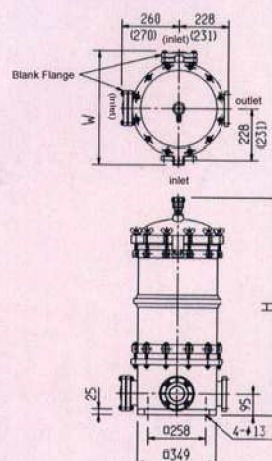
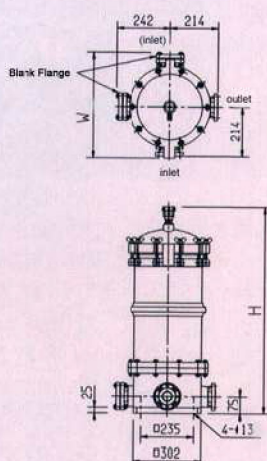
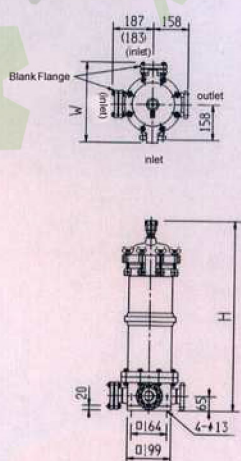
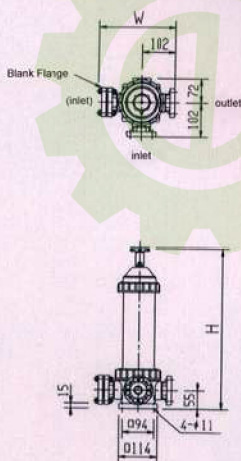
● Inlet/outlet pipe • flanged connection, drain valve, pressure gauge, filter cartridge, base etc., are options.

size	20A, 25A, 40A, 50A, 65A
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material	PVC, HT-PVC
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size	20A
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material	CPVC
Remarks : For Models 1-2, Drain Cock is applied.	



Dimensions in () are for EGH-4.

Dimensions in () are for EGH-60.

Note : Dimensions indicated above are only for A/B series.

※ Specification & appearance may be changed without prior notice.



NIHON FILTER CO., LTD



Hotline: 0934.20.20.20