

# 21<sup>st</sup> Century Type Filter

**CARTRIDGE FILTERS** 

## 21<sup>st</sup> Century Type Filter



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 21<sup>st</sup> 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.

#### 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.



#### 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.



#### 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.



#### 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.

#### 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.

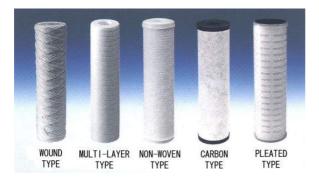


#### NEW ULTRA-LARGE MODEL 45.

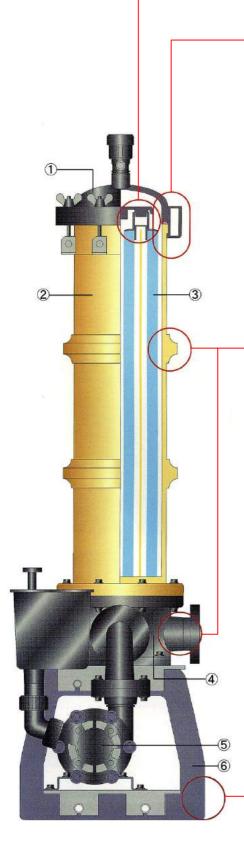
To meet the demands of large volume baths, we have standardized the Ultra-Large Model 45. The overall height is relatively low and easy to handle.

#### 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.



#### 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.



#### MATERIAL CHART

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

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

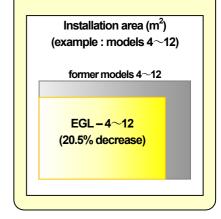
#### Tight sealing!

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.



#### How space saving!

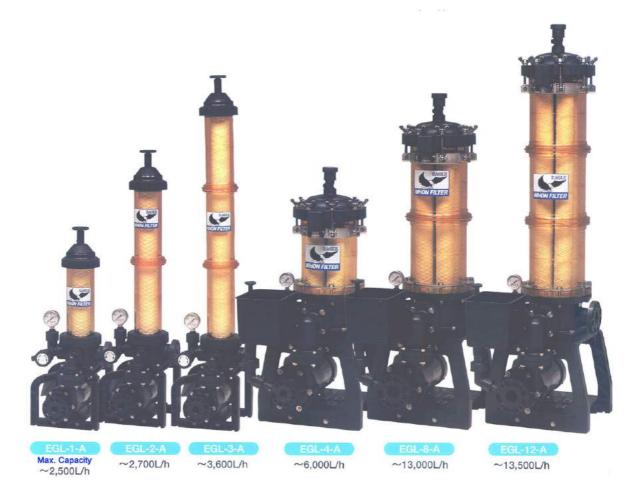
As a result of seeking to space-saving design, we have achieved broad reduction of installation area.



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



- 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	e Tank Capacity	100~500L 150~600L		250~700L	400~1200L	800~2600L	1000~2700L	
Qty. of Ca	rtridge (CW series)	1LX1pc 2LX1pc		3LX 1pc	1LX4pcs	2LX4pcs	3LX4pcs	
Max. Oper	rating Temp. (w/hot water)	80°C						
Pump/Mot	or (3-phase, 200V)		0.15kW			0.2kW 0.4kW		
	Total Length		340		550			
Dimentions	Total Width		265		395			
(mm)	Total Hight	670	920	1175	895	1155	1410	
Net Weigh	Net Weight (kg) 10.5 11		11.5	28	31	34		
Inlet/Outlet Connections (Piping) 20A		20	A	25A 40A			A	

(1)Models 1-45 are standardized to be supplied with flange connection. Although, they are available with flange as options. (JIS 5K) Remarks : (2)Max. Operating Pressure si 0.25MPa (w/water) for all models. (3) Please inform us when your solution gravity is >1.21. (4) Hose connection is available on request as options.

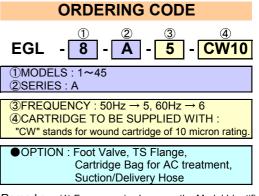
\* Specification & appearance may be changed without prior notice.

5Net Weight does not include cartridges.



EGL-16-A ∼19,000L/h EGL-24-A ~23,000L/h EGL-30-A ~27,000L/h EGL-45-A ~30,000L/h

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	
2LX 8pcs	3LX8pcs	2LX 15pcs	3L X 15pcs	
	80	°C		
0.75kW	1.5	кW	2.2kW	
7	10	745		
4	65	540		
1270	1525	1360	1610	
57	64	75	87	
40	A	Inlet 50A/	Outlet 65A	



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



• Low cost type for practical use.

\* B Series is not available for models 1, 2 and 3. Please select from A Series models  $1 \sim 3$ .



#### EAGLE B SERIES STANDARD SPECIFICATION

	MODEL EGL-1-A EGL-2		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	3600~6000L/h 5700~13000L/h		
Applicable	Tank Capacity	100~500L 150~600L		250~700L	400~1200L	800~2600L	1000~2700L	
Qty. of Ca	rtridge (CW series)	1LX1pc 2LX1pc		3L X 1pc	1LX4pcs	2LX4pcs	3LX4pcs	
Max. Oper	rating Temp. (w/hot water)	80°C			70°C			
Pump/Mot	or (3-phase, 200V)		0.15kW			0.2kW 0.4kW		
	Total Length		340		550			
Dimentions	Total Width		265		395			
(mm)	Total Hight	670	920	1175	895	1155	1410	
Net Weigh	Net Weight (kg) 10.5 11		11.5	27	30	32		
Inlet/Outlet Connections (Piping) 20A		20	A	25	5A	4(	A	

Remarks: ①Models 1-45 are standardized to be supplied with flange connection. Although, they are available with flange as options. (JIS 5K) (2)Max. Operating Pressure si 0.25MPa (w/water) for all models.

③Please inform us when your solution gravity is >1.21. 5Net Weight does not include cartridges.

4 Hose connection is available on request as options.

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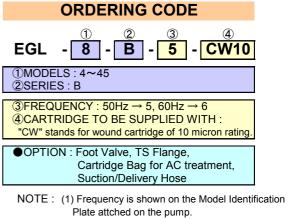
~1	9,0	000	L/h
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~23,000L/h

~27,000L/h

EGL-45-B ~30,000L/h

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	1.5	kW	2.2kW	
7	10	745		
40	65	540		
1270	1525	1360	1610	
52	59	70	78	
40	A	Inlet 50A/	Outlet 65A	



(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.



- 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 Ca	rtridge (CW series)	1L X 1pc	2L X 1pc	1LX4pcs	2LX4pcs
Max. Oper	rating Temp. (w/hot water)	hot water) 80°C			
Pump/Mot	or (3-phase, 200V)	0.1	5kW	0.2kW	0.4kW
	Total Length	3-	40	550	
Dimentions	Total Width	20	65	3	95
(mm)	Total Hight	670	920	890	1140
Net Weigh	Net Weight (kg)		12 12.5		38
Inlet/Outlet Connections (Piping) 20			A	25A	40A

 Remarks :
 ①Models 1-45 are standardized to be supplied with flange connection. Although, they are available with flange as options. (JIS 5K)

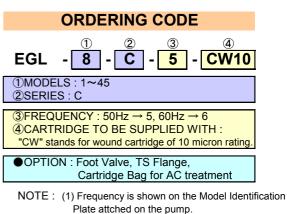
 ②Max. Operating Pressure si 0.25MPa (w/water) for all models.
 ③Please inform us when your solution gravity is >1.21.

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		
2LX8pcs	3LX8pcs	2LX 15pcs	3L X 15pcs		
	80°C				
0.75kW	1.5	kW	2.2kW		
710	710	74	45		
465	465	5	40		
1250	1495	1335	1580		
66	73	85	95		
40	A	Inlet 50A/	Outlet 65A		



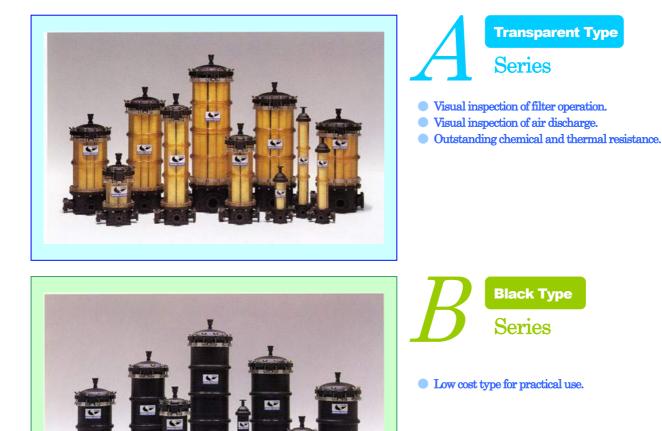
(2) Please advise us the kind and temperature of the solution to be handled when ordering.

### **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.



#### EAGLE HOUSING (A/B SERIES) STANDARD SPECIFICATION

MODEL	EGH-	EGH-	EGH-	EGH-	EGH-	ECH	ECH	EGH-	EGH-	EGH-	EGH-
MODEL		-	-		-	-	-	-	-		
	1-A/B	2-A/B	3-A/B	4-A/B	8-A/B	12-A/B	16-A/B	24-A/B	30-A/B	45-A/B	60-A/B
Housing Cover/Filter Bottom				Glass	fiber rei	nforced	Polyprop	bylene			
Housing Shell	A	A Series	: Polysu	Ilfone	ΒS	eries : G	lassfibe	r reinfor	ced Plyp	oropylen	е
Gaskets		EPT									
Max. Operating Temperature		30°C			A Series∶80℃ B Series∶70℃						
Max. Operating Pressure				0.25N	IPa (at 2	2.5℃ with	n water)	*3			
Connections	20	)A	25	5A		4(	AC		6	5A	80A
Total Hight (mm)	475	725	980	580	840	1095	910	1165	960	1210	1465
Total Width (mm)	230		355	36	60	40	65	5	10	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°C, please be sure to lower the Max. Operating Pressure.

Example:0.125MPa (at 70°C with water), 0.11MPa (at 80°C with water)

Parts to be Additionally Ordered (for A/B)



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		
Remarks : Available for all models.			

Base

size	for 1-3, 4-12, 16 • 24, 30-60			
material	PPGF			
Inlet/outlet pipe flanged connection dran valve				

Diniet/outlet pipe-flanged connection, dran valve, pressure gauge, filter cartridge, base etc., are options.







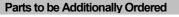
- Strongest acid resistant material. (PVDF)
- Strongest thermal resistance.
- Safety type.

#### EAGLE HOUSING (C SERIES) STANDARD SPECIFICATION

MODEL	EGH-	EGH-	EGH-	EGH-	EGH-	EGH-	EGH-	EGH-
	1-C	2-C	4-C	8-C	16-C	24-C	30-C	45-C
Housing Cover/Filter Bottom	PVDF							
Housing Shell	PVDF							
Gaskets	FPM							
Max. Operating Temperature	95°C							
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)





#### **Pressure Gauge**

measuring range 0-0.4 Mpa

Remarks : Available for all models.

#### Base

size	for 1 · 2, 4 · 8, 16 · 24, 30 · 45
material	PPGF
Inlet/outlet pipe flanged connection, dran valve.	

pressure gauge, filter cartridge, base etc., are options.

#### Flanged Connection

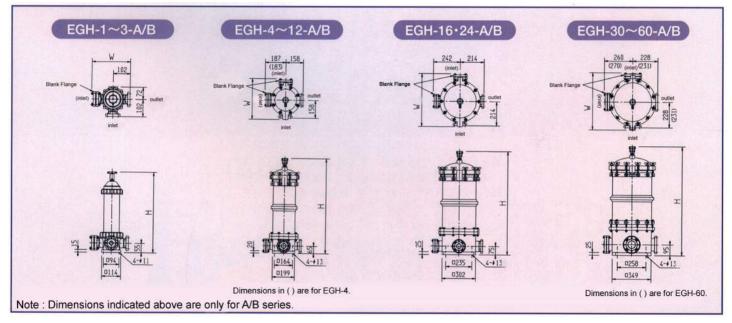
size	20A, 25A, 40A, 50A, 65A
material	PVC, HT-PVC

#### **Drain Valve**

size	20A
material	CPVC
Remarks : For Models 1,2 Drain Cock is applied	

marks : For Models 1 · 2, Drain Cock is applied

#### [DIMENSIONS] (mm)



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