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AMF Series Cartridge/Bag Filter-Pump **AMF 系列 化工製程精密過濾機／袋濾機**



Safe and Leak-Free Filter Design 安全與零洩漏過濾機設計

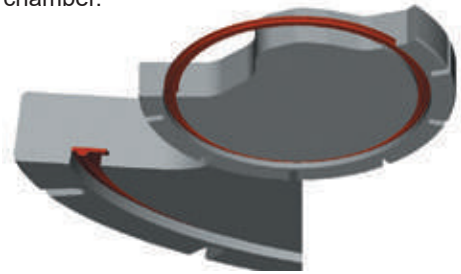
The filter chamber is a pressure bearing structure, therefore, safety is the most important factor in its design. ASSOMA's AMF-Series filters feature the following safety features to protect the environment and the safety of our customers.

過濾機的濾桶為受壓結構，因此，安全是其設計中最重要因素。ASSOMA 的 AMF 系列過濾機具有以下設計，可保護環境與顧客安全。

1. Unique Sealing System 獨特的密封設計

The sealing gasket installed on the top cover is designed to provide a secure seal over and over without needing to be replaced. The gasket seal is also kept in position and cannot fall out to be misplaced when replacing the filter media. Comparatively, conventional O-Rings can be deformed and need to be replaced regularly to prevent leaks. Furthermore, to keep an O-Ring in place, they need to be placed inside grooves which could accumulate chemicals and debris, affecting the seal of the filter chamber.

安裝於上蓋的密封迫緊在更換濾材時會保持在原位，不會掉落或位移，持續提供有效並安全的密封，無需更換。傳統的 O 型環因壓縮會變型，較無法確保平均受壓，必需定期更換以避免洩漏。此外，O 型環必須安裝在容易積藥水與其他雜質的固定凹槽內，容易影響過濾器的密封效果。



2. No-warp Corrosion Resistant Bracket 不變型、耐腐蝕框夾

The metallic bracket used to secure the top cover to the filter chamber is made of stainless steel which is resistant to corrosion by a wide range of chemicals commonly used with our filter systems. The brackets are also specially designed to resist warping under high tensile force, maintaining a secure seal under high pressure.

用於固定過濾機上蓋的金屬框夾為不銹鋼材質，可能抵抗各種腐蝕性化學物質。框架的特殊結構設計更能在高壓的操作環境下，不變型，不翹曲，持續保持牢固的密封。



3. Strong Filter Body 牢固的耐壓濾桶

The filter body is made with polypropylene, which is a great chemically inert material. The filter chamber has a PN4 pressure rating and is suitable for commonly used chemical filtration applications. The recommended operating temperature for the filters is between 0~70 °C.

過濾器主體由聚丙烯製成，具有出色的耐化性。過濾桶的壓力等級為 PN4，適用於常用的化學過濾應用。過濾機的建議工作溫度為 0 ~ 70 °C。

4. Leak-free, Low Maintenance Pump 零洩漏、低維護需求泵浦

The pump is the piece of equipment that moves the chemical through the filter. It is important to have a reliable pump for your filter system. ASSOMA's chemical pumps are designed to be leak-free and require little to no maintenance. Our magnetic-drive pumps have no mechanical seals that need servicing and our canned-motor pump option requires no motor maintenance.

過濾器需依賴泵浦產生的壓力將化學藥液推入過濾器以達到過濾效果。因此，選擇可靠的泵浦成為評估過濾系統的一個重要關鍵。協磁公司的泵浦為零洩漏、低保養需求的化學專用泵浦，磁力驅動設計不需矯正對心，罐裝泵浦更不需做馬達保養、維修。



Designed for the Customer 為顧客需求而設計

1. Customized Configuration to Fit the Operating Environment 客製化以符合顧客操作需求

Production lines are often customized to customer needs, and even on the same production line, the access points to its filters may also be different. Therefore, as part of our service to our customers, we customize our filters based on your operational needs. Positioning of suction, discharge, and drain piping, and important access points like the priming valve, drain valve, pressure gauge, etc. are fully customizable to customer needs.

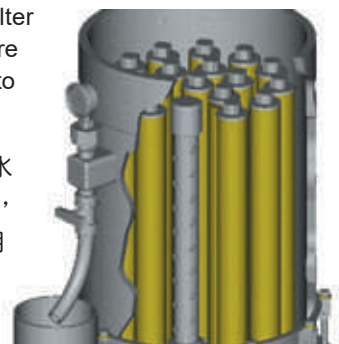
生產用設備機台經常因應顧客製造需求做客製化設定，過濾系統也應依操作方便性做客製化的配置，甚至在一條生產機台上會有不同的配置方案。我們可依顧客操作需求設計吸入口、吐出口、排洩管、注給閥、排洩閥、壓力計等位置，達到操作方便性的最佳設計。



2. Better filtration Capabilities 最佳化的過濾效果

The effectiveness of filtration depends on the filter media. Traditional filters are built with a single inlet feeding into the filter chamber. The chemical enters the chamber at relatively high velocity and pressure, prematurely wearing down the filter media close to the inlet, leading to higher filter media replacement frequencies. Our cartridge filters employ a dispersion pipe, where the chemical is evenly distributed throughout the filter chamber, minimizing wear to the filter media, to ensure maximum utilization and service life.

濾材為過濾效果的關鍵因素。傳統的過濾系統通常在下方開了一個簡單的入水口。藥液進入濾桶時的壓力、流速相對的較大，容易衝擊靠近入水口的濾心，導致濾材的耗損，增加濾材更換的頻繁以維持過濾品質。我們的濾桶入水採用分流導管，將藥液平均分流，降低流速，提高濾心的壽命與過濾效果。



3. Cost-saving options 降低成本

Most of the lifecycle costs of the filter system are incurred during filter operation. The operating costs can generally be broken down into three areas: filter media replacement, pump maintenance, and energy use. By designing better filtration capabilities, we have effectively maximized the service life of the filter media. Pump maintenance can be reduced by selecting pumps that are reliable and do not require much maintenance. Finally, energy can be saved by running the pump using variable speed control where the pump speed can start lower when the filter media is new, and gradually increased as the filter media gets increasingly clogged. Ask about our AVF-Series pumps, which can help you improve all three areas of cost savings.

過濾系統生命週期成本的最大來源為操作成本。操作成本可分為濾材更換、泵浦維護與能源消耗等三大類別。我們透過設計可達到濾材最佳的使用壽命。泵浦的維護成本可透過挑選可靠並低維護需求的產品來降低。最後，能源消耗可透過變頻控制，在新濾材時降低轉速操作，當濾材陸續阻塞時，增加泵浦轉速以維持過濾循環次數。歡迎您進一步了解我們的 AVF 系列泵浦如何幫您達到最低的操作成本。

Specifications 規格表

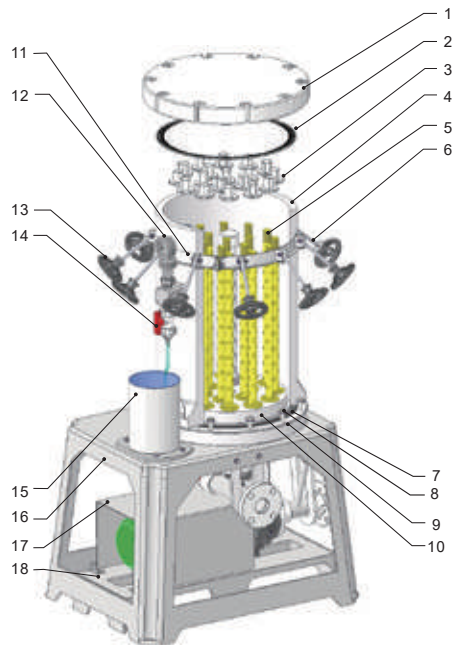
Model 機 型	Cartridges/Bag 濾心數 / 濾袋規格	Capacity (l/hr) *過濾流量	Power (kw) **馬達出力	Inlet x Outlet(mm) ***入 x 出口	Max. Temp (°C) 最高適用溫度	Max. Pressure(kg/cm²) 最大工作壓力
AMF-1	10"x1	450~900	0.065	15 x 15	70	0.8
AMF-2	20"x1	600~1200	0.065	15 x 15	70	0.8
AMF-4	20"x2	1800~3600	0.18	25 x 25	70	1.5
AMF-6	20"x3	2700~5400	0.25	25 x 25	70	1.5
AMF-12	20"x6	5000~10000	0.4	40 x 40	70	2
AMF-16	20"x8	6000~12000	0.75	40 x 40	70	3
AMF-24	20"x12	9600~19200	1.5	50 x 50	70	4
AMF-36	20"x18	12000~24000	2.2	50 x 50	70	4
AMF-54	30"x18	16000~32400	3.75	65 x 50	70	4
AMF-B01	#01x1	5000~12000	0.4~0.75	40 x 40	70	4
AMF-B02	#02x1	9600~36000	1.5~3.75	50 x 50	70	4
AMF-B04	#04x1	1800~5400	0.18~0.25	25 x 25	70	1.5

備註 Note :

- * The listed filtration capacity shown above is for reference only. The actual capacity will be different depending on the liquid property, the types of cartridge/bag and the resistance of the piping system.
表列過濾流量僅供參考，實際過濾流量會依過濾液體性質，濾心規格及管路阻抗壓降不同而有差異。
- ** In accordance with the required capacity of filtration, various models of the pump can be selected to conform to the requirement.
泵浦可依實際需要之過濾量搭配不同馬力數。
- *** Inlet and outlet dimensions can be changed to match customer's requirement.
可依客戶需求搭配不同尺寸之出入口配管。

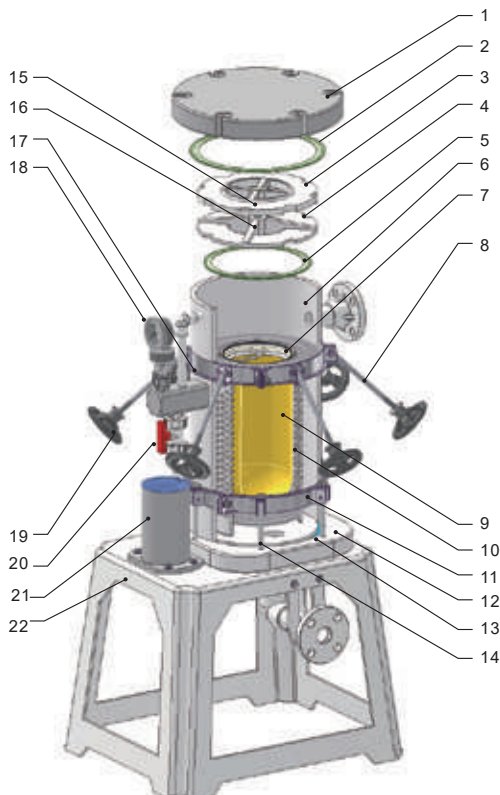
Material 材質構造圖

AMF Cartridge Filter-Pump 型過濾機 (濾心式)



Part code 編號	Part name 名稱	Available Materials 可選用材質
1	Top cover 上蓋板	PP
2	Cover packing 上蓋迫緊	EPDM
3	Cartridge fastener 濾心上螺栓	PP
4	Filter chamber 濾筒	PP
5	Cartridge core pipe 濾心支柱	PP
6	Swivel stud 上擺振螺桿	SUS
7	Lower O-ring 下蓋 O 型環	EPDM
8	Position stud 固定螺桿	SUS
9	Base plate 下蓋板	PP
10	Manifold 中隔板	PP
11	Upper bracket 上框夾	SUS
12	Pressure gauge assembly 壓力計組	PP
13	Cover fastener 上蓋螺栓	PP
14	Vent valve 排氣閥	PP
15	Priming cup 注給杯	PP
16	Main frame 過濾機底座	FRP
17	Motor guard 防護罩	PP
18	Pump skid 泵浦座	FRP

AMF-B Bag Filter-Pump 型過濾機 (濾袋式)



Part code 編號	Part name 名稱	Available Materials 可選用材質
1	Top cover 上蓋板	PP
2	Cover packing 上蓋迫緊	EPDM
3	Retainer 壓板	PP
4	Retainer 壓板	PP
5	Packing 迫緊	EPDM
6	Filter chamber 濾筒	PP
7	O-ring O 形環	EPDM
8	Swivel stud 上擺振螺桿	SUS
9	Bag 濾袋	不織布 Non-woven fabric
10	Basket 多孔管	PP
11	Lower bracket 下框夾	SUS
12	Base plate 下蓋板	PP
13	Base plate packing 下蓋迫緊	EPDM
14	Position stud 固定螺桿	SUS
15	Spring 彈簧	Ti
16	Bolt 螺絲	Ti Alloy
17	Upper bracket 上框夾	SUS
18	Pressure gauge assembly 壓力計組	PP
19	Cover fastener 上蓋螺栓	PP
20	Vent valve 排氣閥	PP
21	Priming cup 注給杯	PP
22	Main frame 過濾機底座	FRP



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