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AM Series Magnetic Drive Pumps

AM 系列 磁力驅動泵浦



Specifications

Horizontal, single-stage, centrifugal pump

Magnetic drive, seal-less, close-coupled

Wetted Material: PP, PP+GF, PVDF, ETFE+CF

Power Range: 65 W — 250 W (1/12 to 1/3 hp)

Maximum Capacity: 135 lpm

Maximum Head: 11.5 m

規格一覽表

臥式單段離心泵

直接耦合，磁力驅動，無軸封

接液材質：PP，PP+GF，PVDF，ETFE+CF

馬力範圍：65 W — 250 W (1/12 to 1/3 hp)

最大流量：135 lpm

最高揚程：11.5 m

AM-Series Pumps AM 系列泵浦

AM is a series of small, light duty chemical resistant pumps made of engineering plastic materials. This series is designed for small chemical systems for a broad range of industries.

The AM-Series pumps are magnetic-driven and seal-less, protecting against accidental exposure of potentially dangerous chemicals to the environment, and protecting pump operators from harm.

AM 系列是工程塑膠材質，耐腐蝕的輕量型泵浦，操作範圍適合廣泛產業小型化學系統運用需求。

AM 系列為磁力驅動泵浦構造，無軸封、零洩漏，能有效的隔離危險性藥水，不僅使操作人員遠離藥水威脅，也盡到保護環境的義務。

How do magnetic drive pumps work? 磁力驅動泵浦操作原理

Magnetic pumps work by using a set of magnetic coupling to transfer the mechanical energy from the motor to the pump's impeller. A drive magnet is attached to the motor shaft. On the pump side, an inner magnet is attached to the pump impeller. The magnetic flux between the drive and inner magnets pass through the pump containment shell, forming the magnetic coupling. The magnetic coupling allows the pump to be hermetically sealed for leak-free operation.

磁力驅動泵浦是使用一組磁耦合器將動能從馬達傳送泵浦葉片。在馬達端，驅動磁鐵安裝在馬達軸心上。在泵浦端，內磁鐵與泵浦葉片相接。驅動磁鐵與內磁鐵的磁力線迴路穿透泵浦後蓋形成磁耦合器，達成泵浦無需軸封並能完全密封的運轉狀態。

Where can I use AM-Series pumps? AM 系列的運用領域

- Chemicals where leakage must be avoided, including corrosive, toxic, and strong oxidizing agents.
- Potentially flammable and explosive chemicals.
- Highly volatile chemicals harmful to the environment.
- Chemicals that react when exposed to atmosphere or chemicals that can degrade with atmospheric exposure.
- Chemicals that are very expensive.
- 絕對不能洩漏之化學藥液，譬如：腐蝕性、有毒性以及強氧化劑
- 易燃或有爆炸可能性之化學藥液
- 對環境有害之高揮發性化學藥液
- 容易與空氣反應或暴露於空氣會造成裂解的化學藥液
- 昂貴之藥水

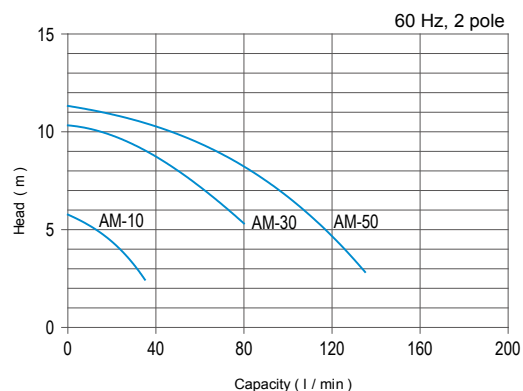
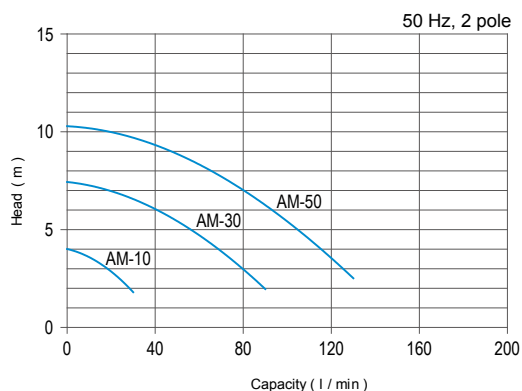
Limitations of AM-Series pumps? AM 泵浦的注意事項

- Should not be used for chemicals with large amounts of solids.
- Dry-running should be avoided.
- Cavitation should be avoided.
- Operating temperature
 - PP, PP+GF, PVDF material: 0 - 80 °C
 - ETFE+CF material: 0 - 95 °C
- 不可用於含有大量雜質液體
- 嚴禁空轉
- 避免空蝕
- 操作溫度範圍
 - PP, PP+GF, PVDF 材質：0 - 80 °C
 - ETFE+CF 材質：0 - 95 °C

Benefits of the AM-Series pumps AM 系列的特點

- Various piping connection options, including hose, threaded, union, and flange.
- Several material choices are available to handle a wide variety of chemicals.
- Simple construction with minimum parts to make servicing the pumps fast and easy.
- Pumps are hermetically sealed to prevent direct contact with potentially dangerous chemicals.
- Stable flow with no pulsation.
- 提供插管、鎖牙、由任、法蘭多種配管方式，方便顧客選擇。
- 有多種材料可供選擇，適用於各種化學品。
- 構造簡單，容易維修、保養。
- 無軸封的密封設計，避免接觸到危險化學品。
- 穩定流量，無脈衝。

Performance Curves 性能曲線圖



Specifications 規格表

Model 機型	Suction x Discharge 入口 x 出口配管 (mm x mm)				Frequency 頻率	Rated Capacity 額定流量 (l/min)	Rated Head 額定揚程 (m)	Motor output 馬達輸出功率 (kW)
	Hose 插管	Thread 牙口	Union 由任	Flange 法蘭				
AM-10	20	G ½	15	-	50 Hz	20	2.8	0.065
					60 Hz		4.4	
AM-30	25	G 1	25	20	50 Hz	40	6.0	0.18
					60 Hz	50	7.8	
AM-50	25	G 1	25	20	50 Hz	80	7.0	0.25
					60 Hz		8.0	

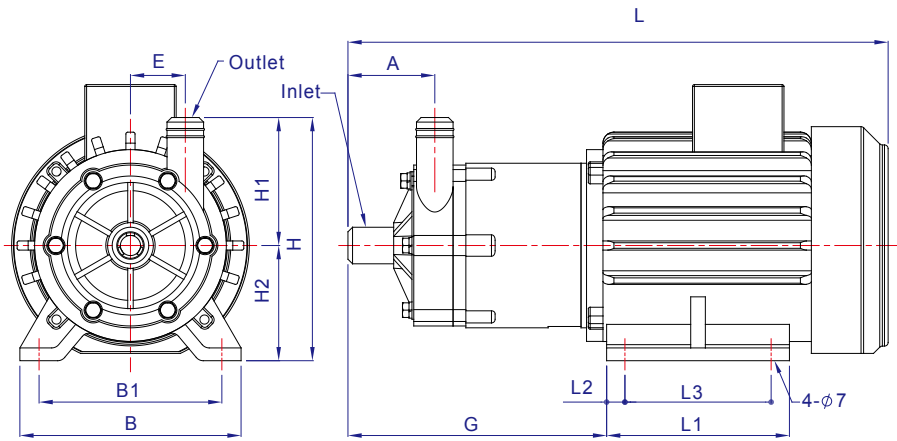
Pump identification 型式表示

AM - 50 F G A C V - 3
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

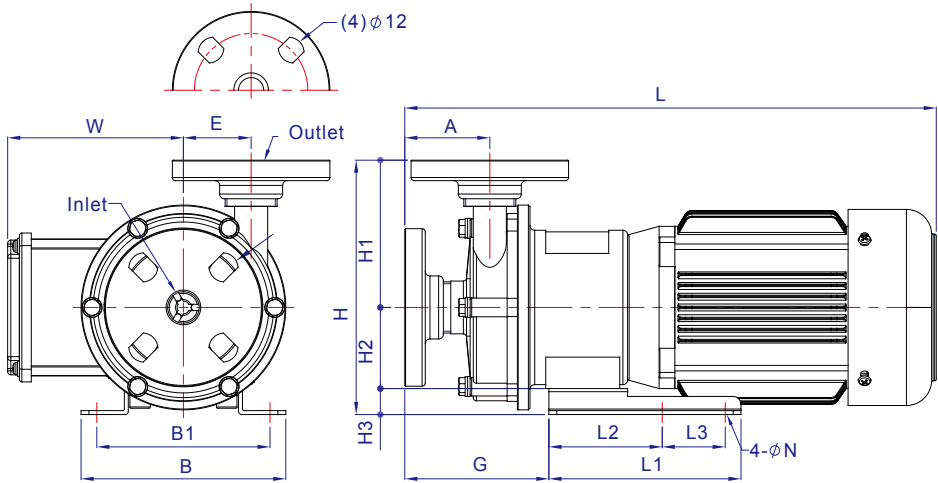
① Series 泵浦系列	AM Series AM 系列	
② Model 形式	Please refer to the Specifications 請參閱規格表	
③ Connection Type 入 / 出口配管	AM-10	S : Hose 插管 T : Thread 牙口 U : Union 由任
	AM-30/50	S : Hose 插管 F : Flange 法蘭 T : Thread 牙口 U : Union 由任
④ Casing Material 本體材質	AM-10	P : PP V : PVDF
	AM-30/50	G : PP+GF E : ETFE+CF

⑤ Shaft Material 軸心材質	A : 995 Al ₂ O ₃ S : SSiC	
⑥ Bearing Material 軸承材質	A : 995 Al ₂ O ₃ C : Carbon R : PTFE+Filler S : SSiC	
⑦ O-Ring Material O 形環材質	E : EPDM V : FKM	
⑧ Motor Type 馬達型式	AM-10	1 : 1 φ IP54
	AM-30/50	1 : 1 φ IP55 2 : 1 φ IP54 3 : 3 φ IP55 4 : 3 φ IP54 S : Special motor 特殊馬達

Dimensions 外形尺寸圖



Item 項目	Dimension 尺寸 (mm)											
	A	B	B1	E	G	H	H1	H2	L	L1	L2	L3
Model 形式												
AM-10	45	121	100	30	138	129	66	63	294	100	10	80



Item 項目	Dimension 尺寸 (mm)														
	A	B	B1	E	G	H	H1	H2	H3	L	L1	L2	L3	N	W
Model 形式															
AM-30F	54	130	110	43	91	162	94	51.5	16.5	334	122	72	40	7	114
AM-50F	69	156		47	122	169	94	54.5	20.5	385	132	47	70	9	

Note : (1)The dimension of the pump will differ depending on the brand and installation of the motor.
(2)Please request dimension drawings for other connection types from your ASSOMA product representative.

備註：(1) 泵浦外形尺寸將因馬達供應商和安裝方式之不同而有所區別。
(2) 其他配管方式之外形尺寸圖請洽 ASSOMA 各地代理商。

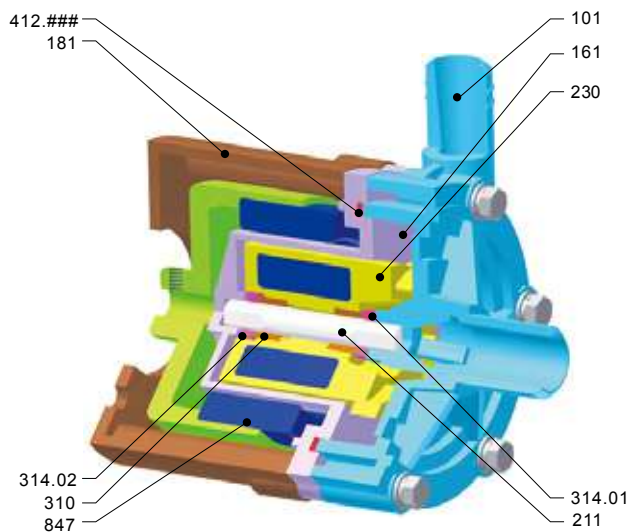
Pump Up Your Value™

提升您競爭力的價值夥伴™

協磁®

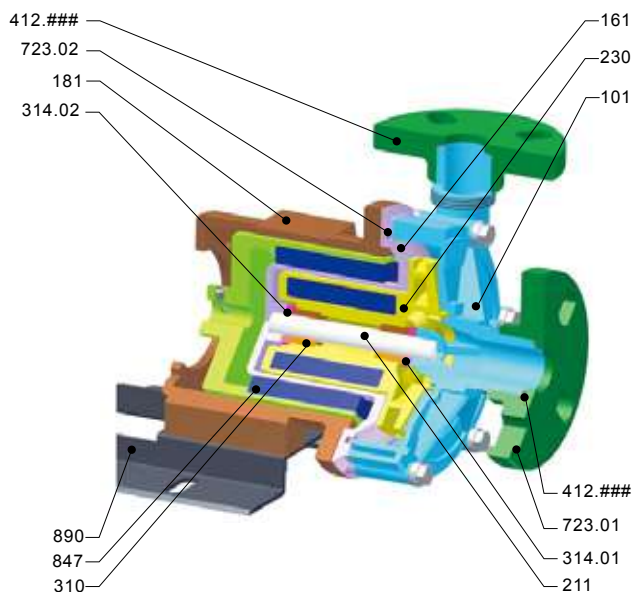
Material 材質構造圖

AM-10



Part code 編號	Part name 名稱	Available Materials 可選用材質
101	Pump casing 前蓋	PP / PVDF
161	Rear casing 後蓋	PP / PVDF
181	Bracket 托架	PP+GF
211	Shaft 軸心	995 Al ₂ O ₃
230	Impeller 葉輪組	PP+GF / PVDF
310	Bearing 軸承	PTFE+Filler / 995 Al ₂ O ₃
314.01	Front thrust ring 前止推環	995 Al ₂ O ₃
314.02	Rear thrust ring 後止推環	995 Al ₂ O ₃
412.###	O-ring O 形環	EPDM / FKM
800	Motor 馬達	Aluminum Alloy
847	Drive magnet 外輪	Ba-ferrite

AM-30F/50F



Part code 編號	Part name 名稱	Available Materials 可選用材質
101	Pump casing 前蓋	PP+GF / ETFE+CF
161	Rear casing 後蓋	PP+GF / ETFE+CF
181	Bracket 托架	FC
211	Shaft 軸心	995 Al ₂ O ₃ / SSiC
230	Impeller 葉輪組	PP+GF / ETFE+CF
310	Bearing 軸承	Carbon / SSiC / PTFE+Filler / 995 Al ₂ O ₃
314.01	Front thrust ring 前止推環	995 Al ₂ O ₃ / SSiC
314.02	Rear thrust ring 後止推環	995 Al ₂ O ₃ / SSiC
412.###	O-ring O 形環	EPDM / FKM
723.01	Inlet flange 入口法蘭	PP+GF / ETFE+CF
723.02	Outlet flange 出口法蘭	PP+GF / ETFE+CF
800	Motor 馬達	Aluminum Alloy
847	Drive magnet 外輪	Ba-ferrite
890	Base 底座	SUS304



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