



SUPER
塑寶牌

塑寶®

磁力驅動系列
SM 型無軸封耐酸鹼泵浦

Magnetic drive Sealless chemical pump



SUPER PUMPS

MODEL IDENTIFICATION

型號說明

SM **F - 25** **250** **1** **H** **C - 6** **V** **R** **N**
1 **2** **3** **4** **5** **6** **7** **8** **9** **10** **11**

- (1) Type 機型編號
- (2) Pump Material 泵體材質
F-FRPP.
K-PVDF.
P-CFRPP.
- (3) In-Outlet 口徑
20-3/4"
25-1"
30-1-1/4"x1"

- (4) Power 馬力
100-100W 180-180W
250-260W 400-400W
750-750W
- (5) Single Phase 1-單相
Three Phase 3-三相
- (6) H-Hose/管式
S-Thread/外牙式
- (7) Shaft 軸心 S-SSIC
T-Titanium/鈦
C-Ceramic/陶瓷

- (8) Frequency 頻率
5:50Hz 6:60Hz
- (9) Elastomer 橡膠材質
V-VITON. N-NBR.
E-EPDM.
- (10) Bearing Material 軸受材質
R-RULON
C-Carbon/炭素
- (11) Model 規格
N-Standard/標準規格
S-Special(Sp-Gravity)
/特殊規格(有比重)

小SM泵是簡單、堅固、耐用，做的最好的磁力驅動泵之一特殊的設計特色。

- 馬達為堅固的 密閉式風扇冷卻結構，而且是雙層的 epoxy 塗裝。
- 小SM泵加上陶瓷軸心及雙陶瓷止推墊片，使得其與同級產品比較起來，運轉更順暢及增加其耐久性。
- 此泵為無軸封設計，可供貨的材質有FRPP, PVDF, CFRPP.
- 此泵可供貨的密封材質有 VITON, NBR 或 EPDM.
- 抽送的藥水不會與金屬零件接觸。

SM series pumps are simple, tough and rugged and are one of the best built magnetic coupled pump in the world. Specific Features:

- The motor is of solid TEFC construction and is painted with 2 parts epoxy paint.
- The SM series pumps incorporates ceramic shaft and dual trust bearings to give smoother running and increased durability compared to other pumps in it' s class.
- The pumps are seal-less and are available in FRPP, PVDF, CFRPP.
- The pumps are available with VITON, NBR or EPDM gaskets.
- The pumps have no metallic parts in contact with the solution being pumped.

SPECIFICATIONS PERFORMANCE CHART

規格/性能曲線

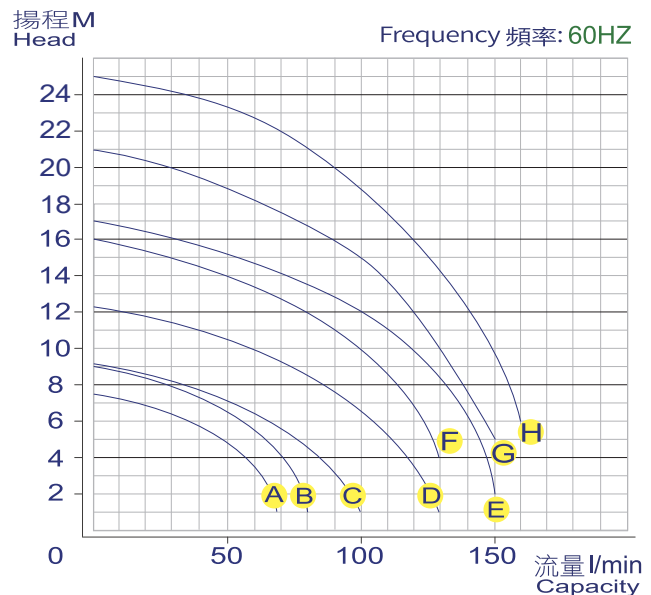
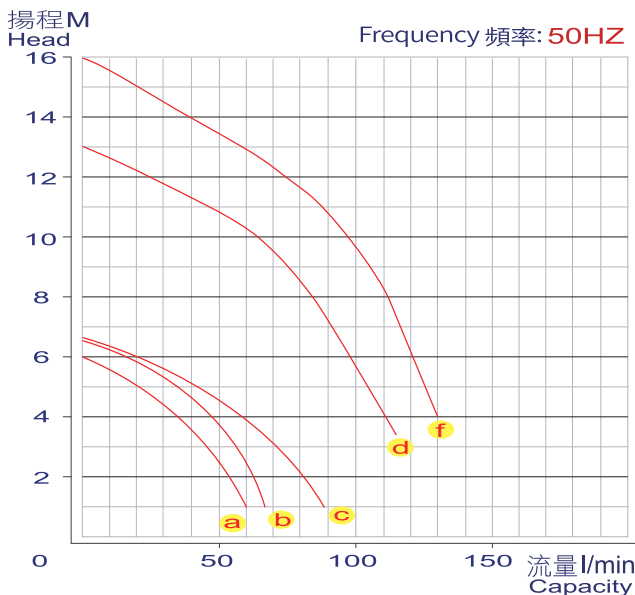
※ 重量/性能以實物為準

Weight / Performance Is For Reference Only Actual Product May Vary

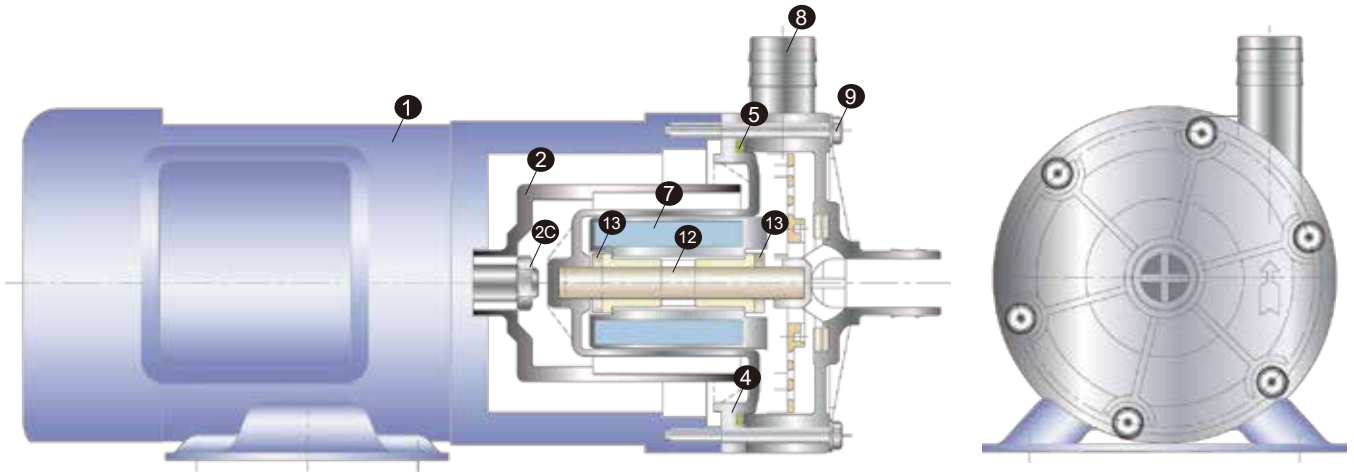
(測試流體：水 比重1.0)

Test Fluid : Water Sp.Gravity 1.0

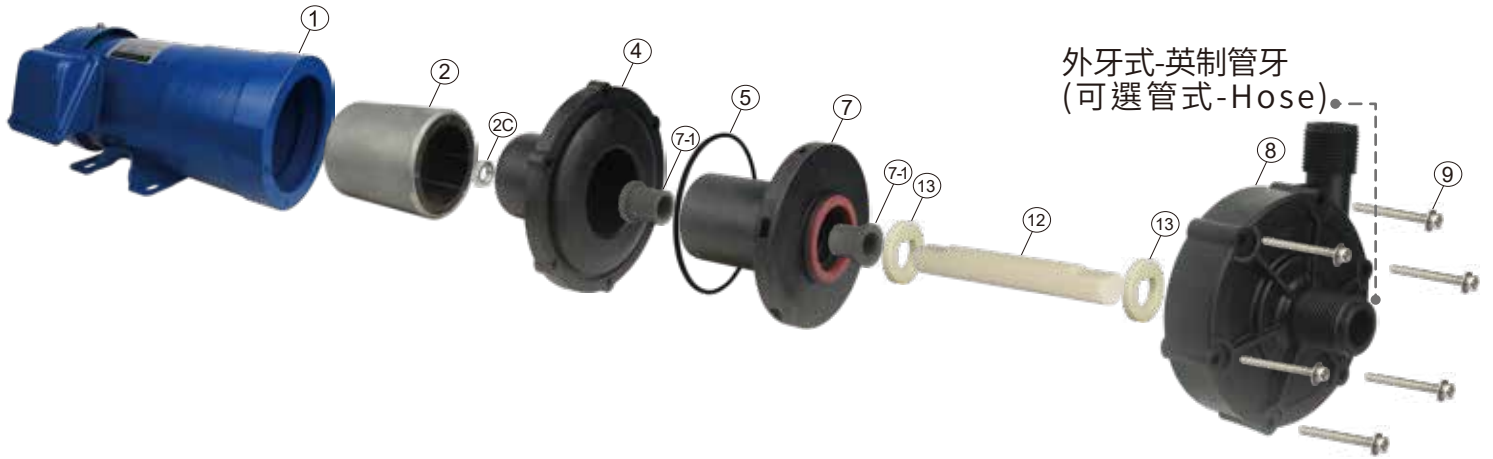
Model 型式	In/Outlet 進出口徑 (In)	Power 馬力	Phase 相數	50HZ			60HZ			Weight 重量kg (參考值)
				Curve 曲線	Max.Head 全揚程 M	Max.Flow 全流量 L/min	Curve 曲線	Max.Head 全揚程 M	Max.Flow 全流量 L/min	
20100-1	3/4"X3/4"	100	1ø	a	6.0	60	A	7.5	68	7.0
20100-3	3/4"X3/4"	100	3ø	a	6.0	60	A	7.5	68	7.0
20180-1	3/4"X3/4"	180	1ø	b	6.6	67	B	9	80	8.0
20180-3	3/4"X3/4"	180	3ø	b	6.6	67	B	9	80	8.0
25180-1	1"x1"	180	1ø	c	6.7	88	C	9.1	100	8.0
25180-3	1"x1"	180	3ø	c	6.7	88	C	9.1	100	8.0
25250-1	1"x1"	260	1ø	d	13	115	D	12.3	130	13.0
25250-3	1"x1"	260	3ø	d	13	115	D	12.3	130	13.0
25400-1	1"x1"	400	1ø	d	13	115	E	17	150	14.0
25400-3	1"x1"	400	3ø	d	13	115	E	17	150	14.0
30400-1	1-1/4"x1"	400	1ø	f	16	130	F	16	130	15.0
30400-3	1-1/4"x1"	400	3ø	f	16	130	F	16	130	15.0
25750-3	1"x1"	750	3ø				G	21	150	15.0
30750-3	1-1/4"x1"	750	3ø				H	25	160	15.0



INTERIOR PARTS
內部元件



SM 100W ~ 750W

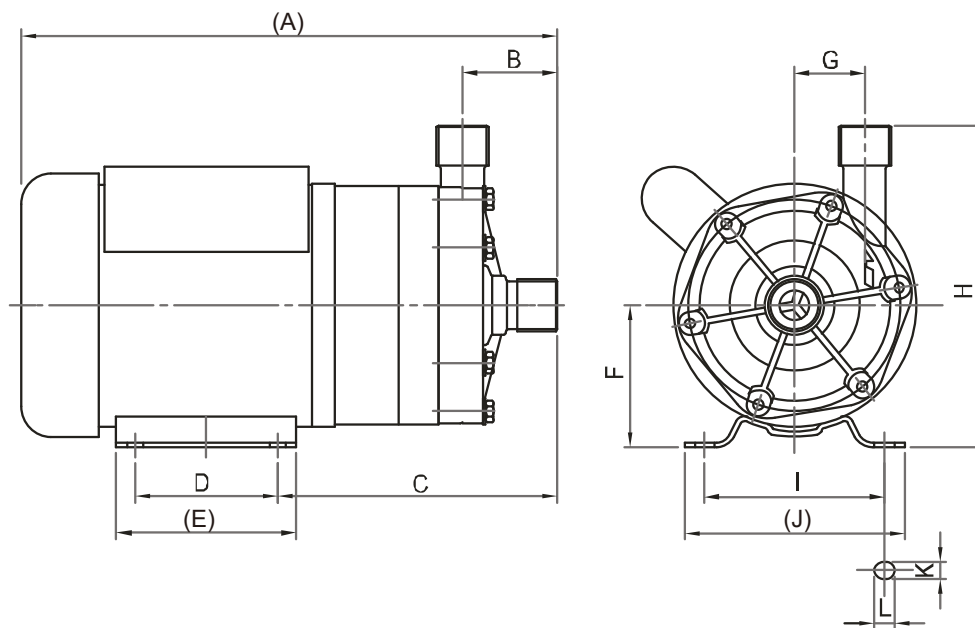


CONSTRUCTION
零件圖表

1 馬達 Motor  FC/Alu	2 外驅動磁鐵 Drive Magnet  Magnet	2C 外磁鐵固定螺帽 Magnet Fasten Nut  SUS304	4 後蓋 Rear cover  FRPP/PVDF CFRPP	5 封蓋O環 Casing O-ring  NBR/EPDM VITON	7 葉輪 Impeller  FRPP/PVDF CFRPP	7-1 葉輪軸受 Impeller Bearing  Rulon/Carbom	8 前蓋 Front Casing  FRPP/PVDF CFRPP	
9 前蓋與馬達固定螺絲/Bolts  SUS304	12 軸心 Shaft  Ceramic/SSIC /Titanium	13 雙止推墊片 Washer  Ceramic/SSIC /Titanium						

DIMENSIONS

外觀尺寸

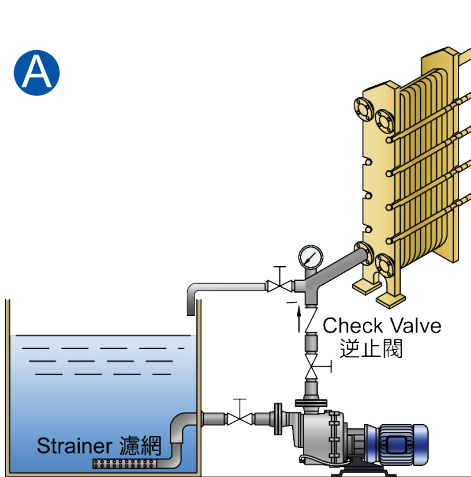


DIMENSION 尺寸表

Unit (單位):mm

Model 型式	In-Outlet進出口徑 Dimension(mm)	A	B	C	D	E	F	G	H	I	J	K	L
SM-20100	20 X 20	305	46.5	145	71	90	71	35	161	90	110	8	10
SM-20180	20 X 20	305	46.5	145	71	90	71	35	161	90	110	8	10
SM-25180	25 X 25	304	45.5	145	71	90	71	35	161	90	110	8	10
SM-25250	25 X 25	400	64	215	90	120	71	43.5	171	112	151	10	20
SM-25400	25 X 25	400	64	215	90	120	71	43.5	171	112	151	10	20

A

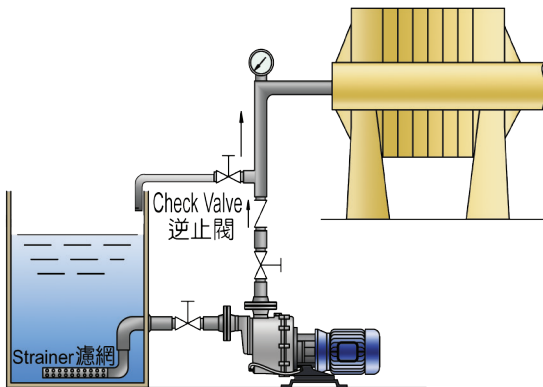


Example A

1. While applied to heat-exchanger, install a pressure gauge at the outlet to make sure no clog inside the pipeline.
2. Install a strainer at the inlet to stop articles or objects entering the pump. It also cut down the bubbles.
3. Install valves at the inlet and outlet for easy maintenance.
4. The diameter of each hole in the strainer should be approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.
It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
5. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow

1. 當應用於熱交換器時，於出口加裝壓力錶，以確定管路中有沒有阻塞。
2. 於入口加裝濾網，以阻止外物進入泵浦，也會減少氣泡的出現。
3. 於出入口的管路中加裝閥門，以便維護。
4. 濾網網孔的直徑應為約5~7mm，且濾網孔的面積應為入口管徑之5~10倍，入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
5. 出水口配有回流管，正常開啟閥門，少量回流。

B

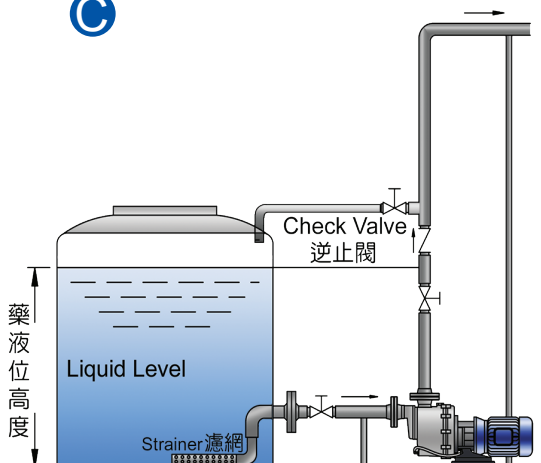


Example B

1. In order to monitor the flow and to detect possible clog of the filter, please set a pressure gauge at the outlet.
2. To eliminate damage caused by dry-running, please install a pressure safety shutoff.
3. Please clean up particles in the pump after operation.
4. Strainer is easy to be clogged. Clean it as usual.
5. The diameter of each hole in the strainer should be approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.
It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
6. Install valves at the inlet and outlet for easy maintenance.
7. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow.

1. 為了監視液體流動及偵測過濾機中可能的阻塞，請於出口加裝壓力錶。
2. 請加裝壓力保護斷電器以避免因空轉損壞。
3. 操作完畢，請清除泵浦中的外來物。
4. 注意入口濾網容易受阻塞，應時常清洗。
5. 濾網網孔的直徑應為約5~7mm，且濾網孔的面積應為入口之5~10倍，入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
6. 於出入口的管路中加裝閥門，以便維護。
7. 出水口配有回流管，正常開啟閥門，少量回流。

C

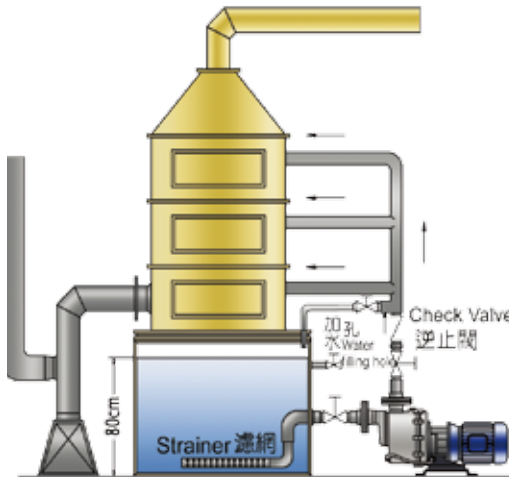


Example C

1. While applied to pump chemicals from the storage tank, please have a valve set at the inlet for the safety and convenience during maintenance.
2. Please monitor the level of the liquid in the tank to avoid dry-running.
3. Without check lid model is recommended.
4. Please install a check valve at the outlet while the height of piping exceeds 8M. It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
5. Please fasten in-outlet piping perfectly.
6. The motor shield must be applied while the pump is installed outdoors or in harsh conditions.
7. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow

1. 當應用於抽送儲存槽中之化學藥水時，請於入口加裝閥門，以維安全及維護上之便利。
2. 請監視槽內液體高度，以避免空轉。
3. 建議採用無單向閥機型。
4. 當配管高度大於8米時請於出口加裝逆止閥，逆止閥應高於液位以上，入口管路最好加大管徑，如泵入口為2"、改配2-1/2"入口管，以防吸入量的不足。
5. 請將出入口管線固定好。
6. 當泵浦裝於戶外或惡劣環境中，馬達必需加蓋護罩。
7. 出水口配有回流管，正常開啟閥門，少量回流。

D

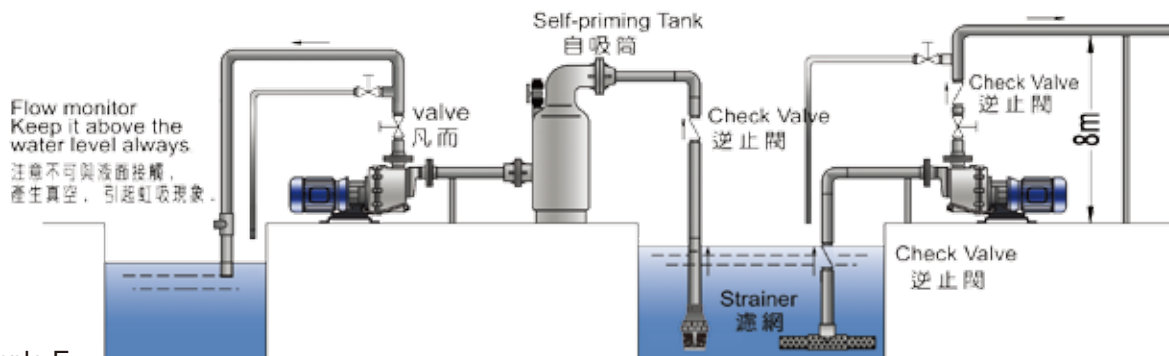


Example D

1. While applied to waste gas treatment tower, the tank should be large enough and the water-level in the tank should exceeds the inlet 80cm.
2. In order to avoid foreign particles clogging the inlet, please lower the inlet and install a strainer. (Mesh diameter approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.) It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
3. It should be easy to remove the strainer from the inlet for cleaning.
4. To avoid running out of liquid, please make sure that the water supplying system functions well.
5. To prevent the pump from dry running, please install a safety shutoff.
6. The motor shield must be applied while the pump is installed outdoors or in harsh conditions.
7. Install valves at the inlet and outlet for easy maintenance.
8. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow.

1. 當應用於廢氣塔時，水槽應夠大，且槽中水位應高於入口濾網80公分。
2. 為了避免外物阻塞入口，請降低入口並要裝濾網（網孔孔徑約5~7mm，且濾網孔的面積應為入口管徑之5~10倍）入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
3. 入口濾網應易於取下清洗。
4. 請確認供水系統功能良好，以避免無水運轉（加裝自動補水系統）。
5. 請加裝保護斷電器，以防止泵浦空轉。
6. 當泵浦裝於戶外或惡劣環境中，馬達必需加蓋護罩。
7. 於出入口的管路中加裝閥門，以便維護。
8. 出水口配有回流管，正常開啟閥門，少量回流。

E



Example E

1. To stop articles or objects entering the pump, install a foot valve or strainer.
2. To prevent the inlet from sucking in bubble, please keep liquid level at least 30cm above the strainer.
3. Check valve must be installed if the height of piping exceeds 8M.
4. To avoid dry-running, please install a safety shutoff.
5. For the safety of repair, the valve must be installed at the outlet.
6. 3" in/outlet models cannot do self-priming well. Install a self-priming tank to get it.
7. In order to avoid foreign particles clogging the inlet, please lower the inlet and install a strainer. (Mesh diameter approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.) It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
8. If the head of the outlet too high or the long transfer distance and the pressure losing or over 1KG we suggest that install the outlet tee hose for backflow to tube. This can avoid the pressure of the backflow and the hot air can be exhausted will diminish the damage.
9. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow.

1. 加裝底閥或濾網，以防止外物進入泵浦。
2. 請保持液位最少高於入口濾網 30cm 以上，以防止吸入氣泡。
3. 當配管高度大於 8 米時，必需加裝逆止閥。
4. 請加裝保護斷電器，以防止泵浦空轉。
5. 為了維修安全，出口必需加裝閥門。
6. 出入口為 3" 之機型無自吸能力，請加裝自吸桶以獲得自吸能力。
7. 為了避免外物阻塞入口，請降低入口並要裝濾網（網孔孔徑約5~7mm，且濾網孔的面積應為入口管徑之5~10倍）。入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
8. 出口揚程高或輸送距離較長，壓損超過1kg以上的使用場所建議在原出口加裝三通回流管，來防止反壓及熱氣排放減少損壞。
9. 出水口配有回流管，正常開啟閥門，少量回流。
※如安裝二台泵浦，不能共用入口管路



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訂購時請提供下列資料:

1. 藥液條件: 名稱_____/溫度_____
濃度_____/比重_____/黏度_____
2. 需求流量: _____ L/min
3. 需求揚程: _____ M
4. 馬達: 電壓/頻率

While placing your order...

Please kindly provide us the following information.

1. Chemical: Name_____/Concentration_____
Temperature_____/Specific Gravity_____
Viscosity_____
2. Capacity needed: _____ L/min
3. Head needed: _____ M
4. Power: Voltage/Frequency