



SUPER
塑寶牌

塑寶®

耐酸鹼化學自吸式
HL 型機械軸封泵浦

SELF-PRIMING CHEMICAL PUMPS



SUPER PUMPS

MODEL IDENTIFICATION

型號說明

HL - 75	10	2	V - B	H	SSH	5 - N	A	N			
1	2	3	4	5	6	7	8	9	10	11	12

- | | | |
|---|---|---|
| (1) Type機型編號
HL-FRPP.
HLP-CFRPP. | (5) Elastomer橡膠材質
N-NBR. E-EPDM.
V-VITON.
H-HV高氟橡膠 | (10) Shaft軸心
N-Standard/標準軸心
T-Titanium/鈦軸心 |
| (2) In-Outlet出入口徑
40 - 1-1/2" 50 - 2"
65 - 2-1/2" 75 - 3" | (6) Check Valve單向閥
B-without check valve無舌 | (11) Fixed-Seal Cover
固定環座
A-Removeable Cover
可拆式固定環座
B-Fixed Cover
一體式固定環座 |
| (3) Power馬力
03:3HP 05:5HP
07:7.5HP 10:10HP | (7) Head揚程
H -High Head高揚程 | (12) Model規格
N-Standard/標準規格
S-Special/特殊規格
A-With Safty Pressure
Release Valve/安全排氣閥 |
| (4) Pole極數
2 : 2 P | (8) Seal內裝式軸封規格
CCH SSH | |
| | (9) Frequency頻率
5:50Hz 6:60Hz | |

- 適用溫度：泵體FRPP,CFRPP材質85°C以下。
- 獨特的軸封設計：內裝式採用Teflon Bellows Seal自冷式設計，並有冷卻循環迴路，在空轉時會利用內部的液體循環冷卻軸封，軸封材質SIC,Carbon,Ceramic。外裝式採用Teflon Bellows Seal水冷式設計，適合高溫高腐蝕性之液體，及液體內含有固體粒子使用，不易空轉損壞。
- 自吸式設計：自吸力特強，自吸力可達4M，3"機種必須使用有舌單相閥規格，才有自吸能力。
- 抗腐蝕性：採用各種特殊塑鋼材質製成，有FRPP,CFRPP可抵抗大部份的酸鹼液。
- 軸封護罩特殊設計：有可分解及一體式兩種，不可分解採用大固定環，冷卻效果更好，不易空轉損壞，可供選項。配合自吸筒安裝預防空轉損壞。

- Solution temperature: FRPP/CFRPP-Under 85°C, depending on the chemicals.
- Unique chemical seal : Teflon Bellows seal is a self-cooling, has patent of cooled recirculation. When idling solution in the pump will be cooled by recirculation. Seal material : SSIC , carbon , ceramic.
External Teflon Bellow Seal cooled by water, ideal for high temperature, corrosive solution containing solid particles.
- Self-priming: Extremely powerful self-priming up to 4 meters of lift, internal check valve with check lid are necessary for 3" models in self-priming.
- Excellent chemical resistance: Various special plastic such as FRPP & CFRPP which can prevent the attack of most chemicals.
- Unique seal cover : The unique seal assembly is easy to disassemble and replace.

SPECIFICATIONS PERFORMANCE CHART

規格/性能曲線

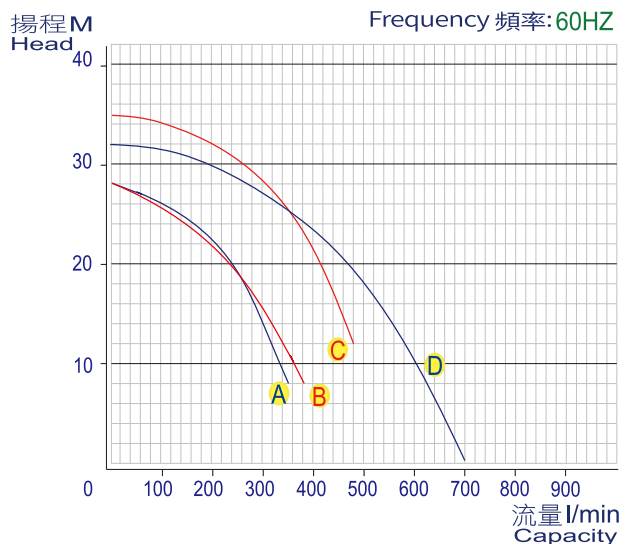
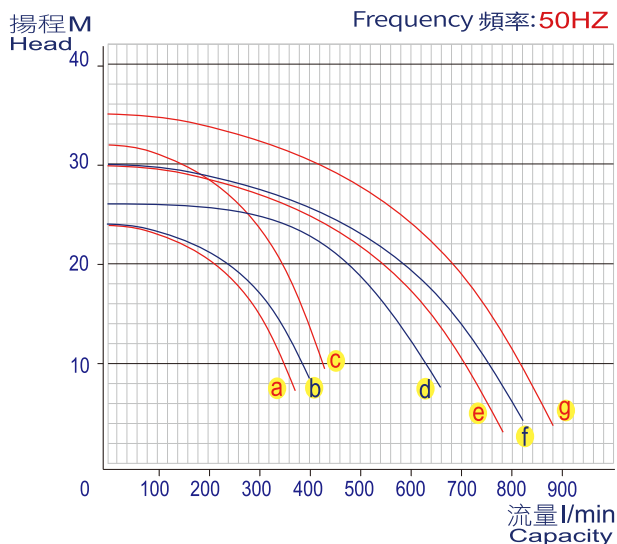
※ 重量/性能以實物為準

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

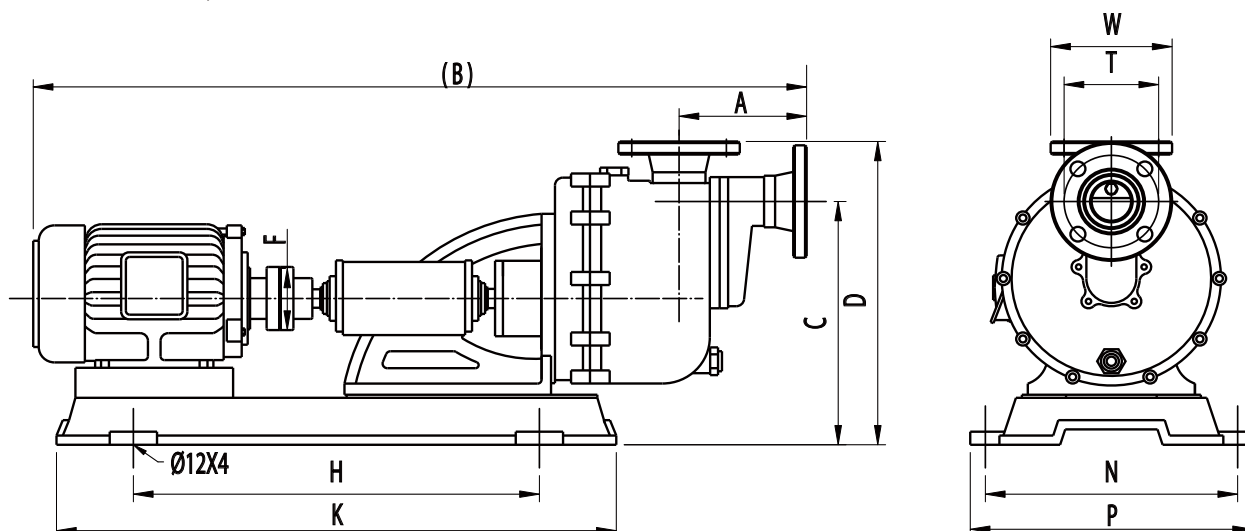
Model 型 式	In/Outlet 進出口徑 (吋)	Power馬力 3Ø			50Hz			60Hz			Weight 重量kg (參考值)
		Phase 相 數	HP	Pole 極 數	Curve 曲線	Max.Head 全揚程 M	Max.Flow 全流量 L/min	Curve 曲線	Max.Head 全揚程 M	Max.Flow 全流量 L/min	
40032	1-1/2"	3	3	2	a	24	370	A	28	350	82
50032	2"	3	3	2	b	24	400	B	28	380	82
50052	2"	3	5	2	c	32	430	C	35	480	85
65052	2-1/2"	3	5	2	d	26	760	D	32	700	86
65072	2-1/2"	3	7-1/2	2	e	30	780				
75072	3"	3	7-1/2	2	f	30	820				
75102	3"	3	10	2	g	35	880				



DIMENSIONS

外觀尺寸

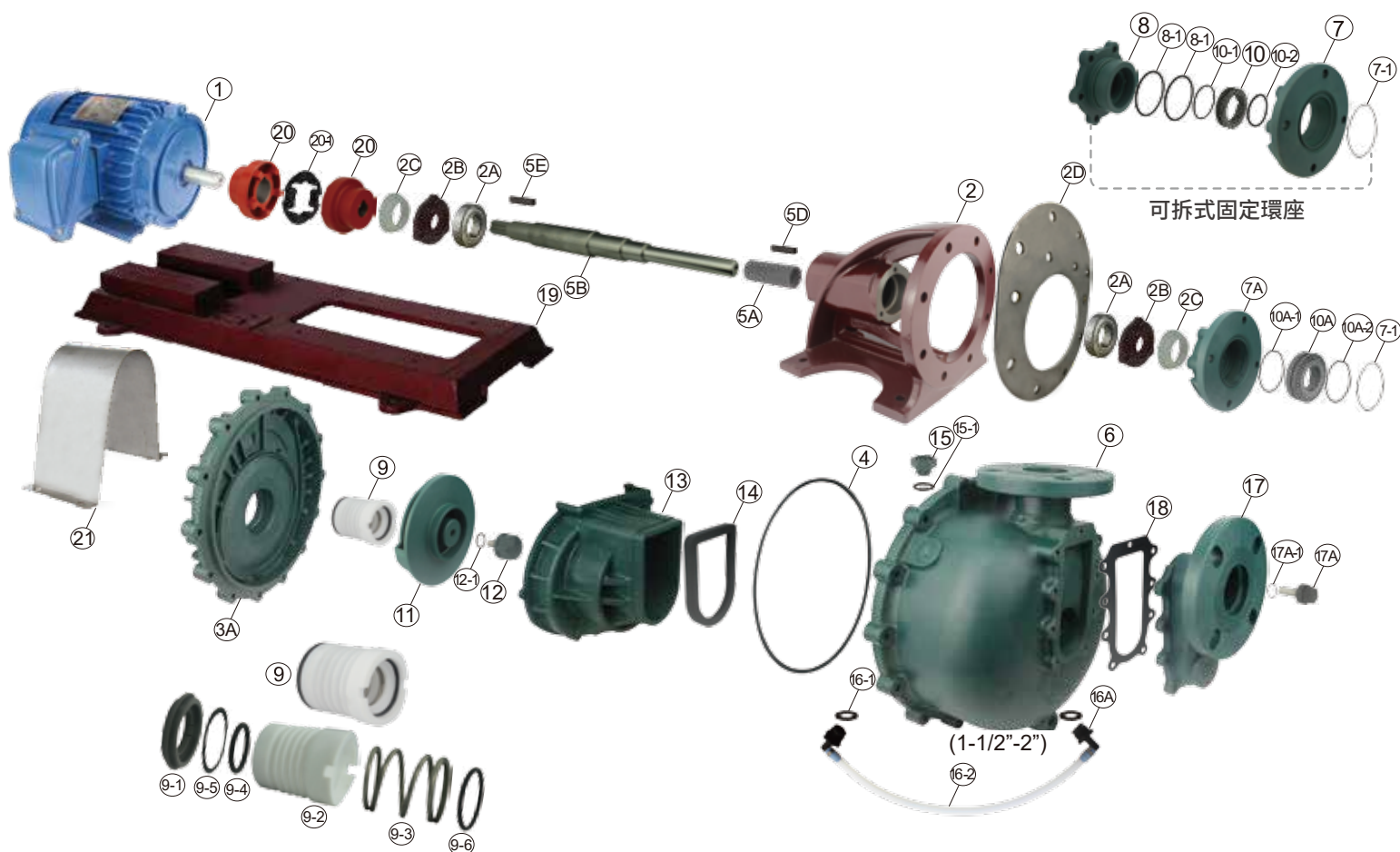
HL 3HP~10HP, 1-1/2"~3" 尺寸圖



※尺寸表B會因電機品牌不同而改變

Dimension May Vary With Different Brand Motor

MODEL	A	B	C	D	F	H	K	N	P	T	W
HL40032	132	962	312	390	82	525	710	320	362	120	155
HL50032	132	962	312	390	82	525	710	320	362	120	155
HL50052	132	1017	312	405	82	525	710	320	362	120	155
HL65052	160	1075	447	419	82	525	710	320	362	150	190
HL65072	160	1155	447	419	97	590	780	320	362	150	190
HL75072	160	1155	447	419	97	590	780	320	362	150	190
HL75102	160	1155	447	419	97	590	780	320	362	150	190



CONSTRUCTION 零件圖表

1	2	2A	2B	2C	2D	3A	4	5A	5B	5D
馬達 Motor	腳座 Frame	腳座軸承 Frame Bearing	軸承防塵蓋 Bearing Dust Shield	軸承防水套 Bearing Liquid Shield	腳座補強板 Reinforcing plate	後封蓋 Rear cover	後蓋O環 Rear Cover O-ring	軸套 Shaft Sleeve	軸心 Shaft	葉輪鍵 Impeller Pin
										
FC	FC	STEEL	FC	PP	SUS	FRPP/CFRPP	NBR / EPT VITON / HV	TEFLON	SUS/TI	SUS
5E	6	7	7A	7-1	8	8-1	9	9-1	9-2	9-3
連軸器鍵 Impeller Pin	主體前蓋 Front Cover	可拆式軸封護罩 Seal Cover	一體式軸封護罩 Seal Cover	軸封護罩O環 Seal Cover O-ring	固定環座 Fixed-seal Socket	固定環座O環 Fixed-seal Socket O-ring	前軸封 Bellows-seal combination	轉動環 Rotational-seal	伸縮環 Bellows	彈簧 Bellows Spring
										
SUS	FRPP/CFRPP	FRPP/CFRPP CPVC/PVDF	FRPP/CFRPP	NBR / EPT VITON / HV	FRPP/CFRPP CPVC/PVDF	NBR / EPT VITON / HV (每台兩X2)		CARBON SSIC		HASTELLOY-C SUS316

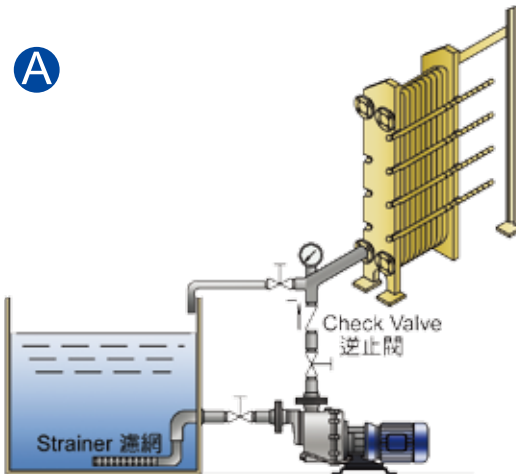
CONSTRUCTION

零件圖表

9-4 伸縮環前O環 Bellows Front O-ring  NBR / EPT VITON / HV	9-5 伸縮環墊片 Bellows Packing  NBR / EPT VITON / HV	9-6 伸縮環後O環 Bellows Rear O-ring  NBR / EPT VITON / HV	10 可拆式固定環 Fixed-seal  CERAMIC SSIC	10A 一體式固定環 Fixed-seal  CERAMIC SSIC	10A-1 一體式固定環後O環 Fixed-Seal Rear O-ring  NBR / EPT VITON / HV	10A-2 一體式固定環側O環 Fixed-Seal Side O-ring  NBR / EPT VITON / HV	10-1 可拆式固定環後O環 Fixed-Seal Rear O-ring  NBR / EPT VITON / HV	10-2 可拆式固定環側O環 Fixed-Seal Side O-ring  NBR / EPT VITON / HV	11 葉輪 Impeller  FRPP/CFRPP	12 葉輪螺絲 Impeller Screw  FRPP/CFRPP CPVC/PVDF
12-1 葉輪螺絲O環 Impeller Screw O-ring  NBR / EPT VITON / HV	13 中封蓋 Check Cover  FRPP/CFRPP	14 單向閥 Check Valve  有舌 無舌 NBR / EPT / HV VITON / TEFLON	15 注水蓋 Water Filling Cap  FRPP/CFRPP	15-1 注水蓋O環 Water Filling Cap O-ring  NBR / EPT VITON / HV	16 循環管含接頭 Recycle Hose  TEFLON	16-1 循環接頭墊片 Recycle Joint Packing  NBR / EPT VITON / HV	16-2 鐵氟龍管 Teflon Hose  TEFLON	16A 循環接頭 Recycle Joint  PVDF	17 自吸筒 Self-Priming Cover  FRPP/CFRPP	17A 自吸筒螺絲 Self-Priming Cover Screw  PVDF / SUS
17A-1 自吸筒螺絲O環 Cover Screw O-ring  NBR / EPT VITON / HV	18 自吸筒墊片 Self-Priming Cover Packing  NBR / EPT / HV VITON / TEFLON	19 HL 底座 Base for SL  FC	20 連軸器 Coupling  FC	20-1 連軸器橡膠 Coupling Elastomer  NBR	21 連軸器護罩 Coupling Shield  SUS					

EXAMPLES 應用範例

A

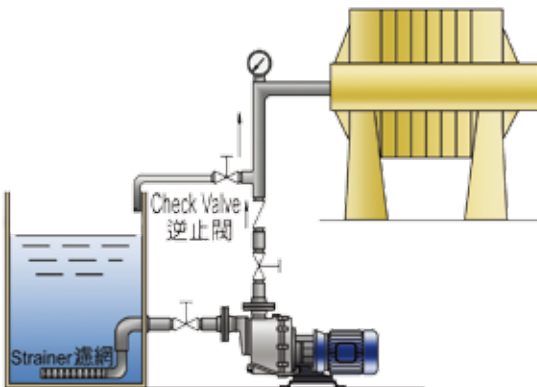


Example A

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

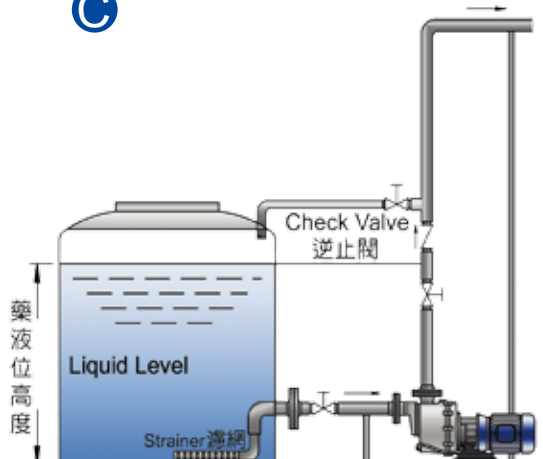


Example B

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

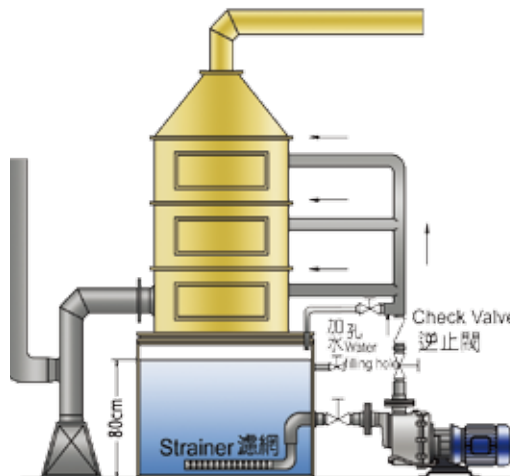


Example C

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

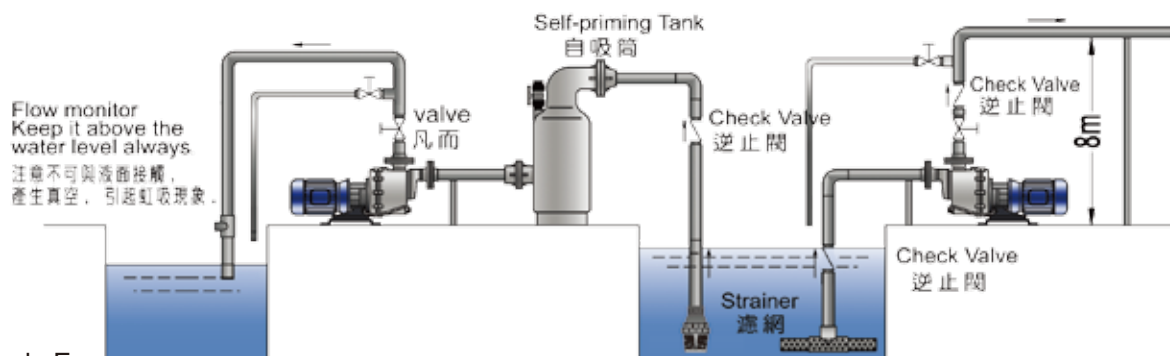


Example D

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