



Roman

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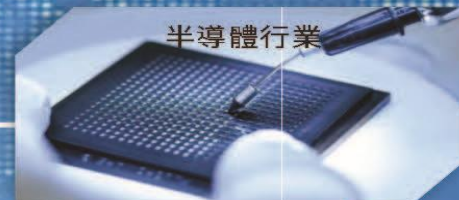
ROMAN
綜合型錄

Roman

太陽能板行業



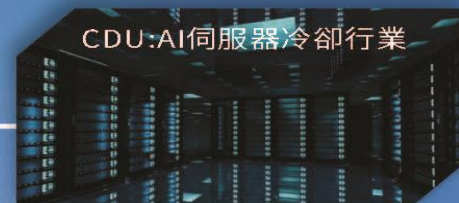
半導體行業



液晶面板行業



CDU:AI伺服器冷卻行業



精密化學製藥



高階AI 載板用PCB



RMV(ROMAN MAGNETIC VARIABLE SPEED PUMP)

RMV特點 / RMV Features

因應高階電子製造行業 所需要之精準製程控制、高度自動化、高效率捷能所開發出之節能小體積產品。

- > 高效率永磁電機設計:高效率、IP66防水
- > 內磁鐵動平衡及包覆設計:高速運轉震動值低於2mm/sec
- > 獨家散熱外殼設計:運轉時低於70°C
- > 節省能源超過30%
- > 體積縮小40%
- > 搭配控制器隨時調整轉數 確保達到製程條件

For high end electronic manufacturing process: Precise process control、Auto monitoring、High efficiency and small size.

- > High efficiency permanent magnet variable frequency motor with Ip66
- > Inner magnet balance and capsule: Vibration under 2.0mm/sec under high RPM.
- > Unique heat dispatching design: Make sure pump running temperature under 70°C
- > Energy saving 30%
- > Pump down size 40%
- > Precise RPM control to meet process requirements.



型號識別/Model identification

RMV-655P-CAV			
①	②③④⑤	⑥	⑦⑧
① Variable Frequency 無段轉數 ② INLET入口 2:25mm/4:40mm 5:50mm 6:65mm 8:80mm ③ OUTLET出口 2:25mm/4:40mm 5:50mm 6:65mm 8:80mm	④HP 電機 0:0.4KW 1:0.75KW 2:1.5KW 3:2.2KW 4:3KW 5:3.7KW 7:5.5KW 10:7.5KW ⑤Material 本體材質 P:GFRPP C:CFRPP F:PVDF E:CFRETFE ⑥Shaft Bearing 軸承材質 C:CARBON R:RULON S:SSIC	⑦Shaft 軸心材質 A:995 CERAMIC S:SSIC ⑧O-RING O環 V:VITON E:EPDM:T TEFLON	

適用行業 / Application

高階AI 載板用PCB CDU:AI伺服器冷卻行業 液態儲能行業 半導體行業 液晶面板行業 太陽能板行業	High end substrate PCB(ABF/AI SERVER) CDU:AI(AI EMMERSION COOLING SYSTEM) LIQUID BATTERY ENERGY STORAGE SEMICONDUCTOR PROCESS TFT-LCD process Solar wafer process
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功率(KW)	最高揚程(meter)	最大流量(l/min)	操作溫度(°C)
0.75~7.5KW	40	1500	PP+GF(0-75) PVDF(0-85) ETFE+CF(0-95)



RMA特點 / RMA Features

MAX 1300LPM 43M揚程大流量、高揚程、強酸強鹼輸送用途。

- > 材質:GFRPP/CFRPP/PVDF/ETFE。
- > 大容量流道前蓋容積設計提升泵浦效率。
- > 全塑料PP一體式耐腐蝕支架耐重防腐蝕。
- > 精密內磁包覆設計阻止液體腐蝕。
- > 高效率葉片設計提升泵浦效率。

RMA FEATURES:

- > MAX capacity:1200LPM MAX Head:43M
- > Material : GFRPP/CFRPP/PVDF/CFRETFE.
- > Big Volume flow path front casing design.
- > GFRPP one piece bracket.
- > Precision inner magnet balance and capsule.
- > High efficiency impeller disk design.



型號識別/Model identification

RMA - 655P - CAV5		
①②③④	⑤⑥⑦⑧	
①INLET入口: 2:25mm 4:40mm 5:50mm 6:65mm 8:80mm ②OUTLET出口 2:25mm 4:40mm 5:50mm 6:65mm 8:80mm ③HP 電機 0:0.4KW 1:0.75KW 2:1.5KW 3:2.2KW 4:3KW 5:3.7KW 7:5.5KW 10:7.5KW	④Material 本體材質 P:GFRPP C:CFRPP F:PVDF E:CFRETFE ⑤Shaft Bearing 軸承材質 C:CARBON R:RULON S:SSIC ⑥Shaft 軸心材質 A:995 CERAMIC S:SSIC	⑦O-RING O環 V:VITON E:EPDM:T TEFLON ⑧Frequency頻率 5:50HZ 6:60HZ

適用行業 / Application

高階AI 載板用PCB CDU:AI伺服器冷卻行業 液態儲能行業 半導體行業 液晶面板行業 太陽能板行業 水處理	High end substrate PCB(ABF/AI SERVER) CDU:AI(AI EMMERSION COOLING SYSTEM) LIQUID BATTERY ENERGY STORAGE SEMICONDUCTOR PROCESS TFT-LCD process Solar wafer process
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RMA	功率(KW)	最高揚程 (meter)	最大流量 (l/min)	操作溫度(°C)
50HZ	0.37~7.5KW	40	1300	PP+GF(0-75) PVDF(0-85) ETFE+CF(0-95)
60HZ	0.37~7.5KW	43	1300	

RML特點 / RML Features

MAX 1500LPM 90M揚程大流量、高揚程、強酸強鹼輸送用途。

- > FCD450金屬外殼
- > 內襯CFRETTE材質
- > 不銹鋼軸心+SSIC襯套提供高強度扭力輸出時穩定運作
- > CFRETTE 後蓋外襯碳纖維強化後蓋(耐壓20KG)
- > CFRETTE包覆FCD450中間支撐座穩定軸心運轉 優化
- > 入口流道設計 降低泵浦NPSHr
- > 構造簡單方便拆裝維修

- MAX:1500LPM 90M for high corrosive chemical transportation.
- > FCD450 Casing armored
 - > Lining with CFRETTE material
 - > SUS PUMP shaft with SSIC shaft sleeve allow high radial torque operation.
 - > CFRETTE rear casing covered by Carbon fiber reinforced cover(Max 20kg)
 - > FCD450 covered by CFRETTE center bearing frame support stability of rotating.
 - > Smooth inlet flow path design minimizing pump NPSHr.
 - > Simple structure for easy maintenance



型號識別/Model identification

R M L - 32 B - E S S V 15 6								
①	②	③	④	⑤	⑥	⑦	⑧	⑨
① FCD 450 LINING WITH CFRETTE 內襯CFRETTE 材質	② INXOUT 出入口法蘭 32:50AX32A(JIS 50X40mm) 40:65AX40A(JIS65mmx40mm) 65:80AX65A(JIS:80mmx65mm)	③ A:5.5KW ~ 7.5KW B:11LW~ 18.5KW	④ Material 本體材質 E:CFRETTE	⑤ Shaft 軸心材質 C:CARBON R:RULON S:SSIC	⑥ Shaft Bearing 軸承材質 C:CARONG S:SSIC	⑦ O-RING O環 V:VITON E:EPDM T:TEFLON	⑧ HP 電機 7:5.5KW 10:7.5KW 15:11KW 20:15KW 25:18.5KW	⑨ Frequency 頻率 5:50HZ 6:60HZ

適用行業 / Application

半導體行業 液晶面板行業 PCB工廠藥液輸送 太陽能面板行業 石化業 藥水製造業 水處理	Semiconductor facility TFT-LCD facility PCB facility Solar wafer facility Petrochemical facility Chemical manufacturing Water Treatment
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RML	功率(KW)	最高揚程 (meter)	最大流量 (l/min)	操作溫度(°C)
50HZ	5.5~18.5KW	65	1300	ETFE + CF(0-95)
60HZ	5.5~18.5KW	70	1500	

HSV特點 / HSV Features

- > 最大口徑:125MMX125MM
- > 材質:FRPP/CFRPP/CFRPVDF/SUS316/Ti。
- > 乾式軸封設計可耐空轉。
- > 溢流孔設計。
- > 大流量前蓋容積設計提升泵浦流量。
- > 適用PCB蝕刻設備、PCB電鍍製程、洗滌塔、藥液輸送等。

- MAXcapacity:3000LPM@50HZ;1800LPM@60HZ MAX Head:40M
- > Material:FRPP/CFRPP/CFRPVDF/SUS316/Ti
- > Dry Seal Design to prevent damages when pump run dry.
- > Overflow hole :To prevent backflow up to motor bearing.
- > Big capacity casing:MAX:3000LPM @50HZ; 1800LPM@60HZ
- > For PCB Etching and plating process, Scrubber and chemical transport.



型號識別/Model identification

H S V - 50 S K - 5 6 V K

① ② ③ ④ ⑤ ⑥ ⑦

① High efficiency Sealless Vertical
高效率無軸封立式泵浦② INXOUT 出入口
25:25AX25A 40:50AX40A 50:65AX50A
65:80AX65A 80:80AX80A 100:100AX100A
125:125AX125A③ Specific Gravity 比重
SK:1.1 SP:1.4④ HP 電機
0:0.4KW 1:0.75KW 2:1.5KW 3:2.2KW
5:3.7KW 75:5.5KW 10:7.5KW 15:11KW
20:15W

⑤ Frequency 頻率: 5:50HZ 6:60HZ

⑥ O-RING O環: V:VITON E:EPDM T:TEFLON

⑦ Material 本體材質

F:FRPP C:CFRPP P:CPVC K:PVDF
T:SS316 I:TI

適用行業 / Application

半導體行業
液晶面板行業
PCB工廠藥液輸送
太陽能面板行業
石化業
藥水製造業
水處理

Semiconductor facility
TFT-LCD facility
PCB facility
Solar wafer facility
Petrochemical facility
Chemical manufacturing
Water Treatment

HSV	功率(KW)	最高揚程 (meter)	最大流量 (l/min)	操作溫度(°C)
50HZ	0.37~15KW	38	3000	PP+GF(0-75) PVDF(0-85) SUS316(0~85)
60HZ	0.37~15KW	38	1800	