

不要為了摘採路邊的野花而逗留，只管堅持向前走吧！因在你的路途上，花朵自會繼續綻放。
印度詩人-泰戈爾（漂鳥集）

公司簡介 Company Profile

威士頓精密工業股份有限公司於1993年創立，主要產品為精密加工設備專用冷卻設備，提供客戶高精度、高品質及高客製化恆溫冷卻機，自成立以來，秉持“創新”、“服務”、“品質”品牌經營理念，透過客製化創新、計畫經營管理模式及重視人才培育永續發展的策略布局，全面建構公司核心價值及優質服務，提高客戶滿意度及創造社會價值；應用DC變頻壓縮機控制技術，達到高效率、高精度、高節能及高性價比的冷卻機產品領先同業。

威士頓於2004年即使用環保冷媒於工業用冷卻機並帶入中國大陸市場，在蘇州省昆山市創立「昆山波英特精密製冷機械有限公司」，創立當時正值中國大陸製造業經濟大躍進，昆山波英特儼然成為工業用冷卻設備代名詞；隨著中國大陸市場需求日益遞增，在2018年於蘇州省相城區購置約30畝地建立全新廠房，並以「威士頓精密制冷机械(中国)有限公司」品牌擴大服務中國大陸市場；兩岸威士頓運用資源整合及技術共享原則，為工業用冷卻設備開創新的視野。

Wexten Precise Industries Co.,Ltd. since its founded in 1993, our main products is Cooling machines for precision processing machine tools.

We provide constant-temperature cooling machines of high-precision, high-quality and high-customized. Since we established and adhered to the concepts of innovation, service, quality, brand management. Through customized innovation, project management models and focusing on talent cultivation, strategic layout of sustainable development to build company's core value and high-quality service to improve customer satisfaction and create social value. It is applied DC inverter compressor control technology. It can achieve high efficiency, high precision, high energy saving and good value to lead industry in cooling products.

Wexten cooling machines are used environmental friendly refrigerants and sold to China market and we founded Kunshan Point Precision refrigeration machinery Co.,Ltd in Kunshan city, Jiangsu province, China at 2004 and Economy of manufacturing industry is greatly improving in that moment so we become synonymous with industrial cooling equipment. We bought 30 acres of land in Xiangchan district, Suzhou city, in 2018 to build a brand new factory and revised company name “Wexten Precise cooling Machinery (China) Limited company” to expand service to China market.

Both of Wexten use resource integration and technology sharing from Taiwan and China to open up new horizon for industrial cooling equipments.

關於
威士頓
About Wexten

創新
Innovation

服務
Service

品質
Quality

威士頓-冷卻科技 最佳選擇 WEXTEN - your best choice for cooling technology

在精密機械產業的道路上，「高速度」與「高精度」是未來的主流趨勢，但加工溫升導致的熱變形卻降低了加工精度，隨著加工主軸高速化與加工精度提升需求，克服溫升成為精密機械邁向高品質與高價值的關鍵課題，而威士頓高精度、高效能、高節能的冷卻科技，正是精密機械克服溫升問題的最佳選擇。

In field of precision machinery industry, "high speed and high accuracy" is main trend in the future. However, machining will cause temperature rising which deforms workpieces, and lowers machining precision. As work spindle is high-speed-oriented, and machining precision is upgraded, there comes a critical issue as how to overcome temperature rising if a precision machine is expected to stride forward a high quality and high value. WEXTEN can provide a cooling technology which is highly accurate and efficient. It is the best solution to overcome temperature rising problem.

21世紀是精密機械挑戰溫升的世紀 21st Century is the century which a precision machine challenges the temperature rising

威士頓是克服機械設備溫升問題的專家，為了提供客戶更加完美的品質與服務，確保機械設備不因溫升導致熱變形，我們不曾停下成長的腳步，威士頓堅持投入創新研發，持續提升產品效能、精度與品質，推出高精度變頻式冷卻機與高科技產業專用冷卻設備，產品效能與品質已經達到機械先進國家的水準。

WEXTEN is a professional who knows how to overcome temperature rising for machines and equipments. In order to provide customers with better quality and service, and ensure no heat deformation on machines or equipments after temperature rising, we have never stopped on research. WEXTEN persists in innovation and research, and keeps on boosting efficiency, precision and quality for cooling equipments. Our high precision frequency-converted cooling machines as well as cooling equipments used in high technology industry have reached advanced country's standard on efficiency and quality.

[優雅地向前行]是威士頓始終如一的堅持 "Graceful in progress" is WEXTEN's permanent insistency

威士頓不以進步道路上中途的成果為滿足，我們堅持創新研發、堅持優質服務、堅持品質提升，因為我們相信--最美的花朵只會在一條名為「堅持」的道路上，專為奮鬥不懈的人而綻放。

WEXTEN will not be satisfied at midway achievement. We persist in innovation, research, and ceaselessly upgrade quality. We believe that most beautiful flower will bloom on the road named "persistency" for a diligent people.



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Do not linger to gather flowers to keep them, but walk on, for flowers will keep themselves blooming all your way.



-By Rabindranath Tagore

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單機雙溫控冷卻機系列

DUAL-TEMP. CONTROL COOLER SERIES

Example of model 範例機型 COD-12PTS

冷卻能力 (X1000BTU/HR) Cooling Capacity

泵浦 Pump

油箱/水箱 Oil Tank/ Water Tank

智慧型PID溫度控制
Intelligent PID
temperature control

COD

12

P

T

S

COD

單機雙溫控單液體(雙液體)油冷卻機
DUAL TEMPERATURE SINGLE LIQUID (DUAL LIQUID) OIL COOLER

CWAD

單機雙溫控單液體(雙液體)水冷卻機
DUAL TEMPERATURE SINGLE LIQUID (DUAL LIQUID) WATER CHILLER

EWWD

單機雙溫控半導體製程設備無壓縮機水冷卻機
DUAL TEMPERATURE CONTROL WATER CHILLER WITHOUT
COMPRESSOR FOR SEMICONDUCTOR PROCESSING EQUIPMENT





單機雙溫控單液體(雙液體)油冷卻機

DUAL TEMPERATURE SINGLE LIQUID (DUAL LIQUID) OIL COOLER

COD SERIES



Scan Photo AR Experience

適用機械種類

- CNC 磨床、拉床、沖床
- CNC 五軸綜合加工中心機
- CNC 綜合立、臥式加工中心機
- 各種油壓專用設備

特性及功能

- 單一冷凍迴路，複數油循環迴路，精準提供獨立流量及壓力。
- 不同液體同時溫控需求，可客製化。
- 雙基板各別針對複數迴路進行溫度控制，並可分別獨立調整需求溫度。
- 具溫度補償與預熱功能。
- 溫控精度 $\pm 0.5^{\circ}\text{C} \sim 1.5^{\circ}\text{C}$ (其他溫控精度可客製化)。
- 佔地面積節省約50%。
- 採用新型高效率環保冷媒，不污染環境。
- 整機高達95%以上材料可回收，為環保盡一份心力。

APPLICATION

- CNC grinding, broaching and punching machine
- CNC machine center (5axis)
- CNC vertical & horizontal machine center
- All kinds of oil hydraulic equipment

FEATURE

- Single refrigerant circuit is with multiple oil circuits, and it provides independent flow rate and pressure precisely.
- Different liquids can be controlled temperature at the same time, and it can be customized.
- Temperature control of Dual-PCB for each of plural circuits and it can be adjusted temperature individually.
- It has temperature compensation and preheated function.
- Temperature control precision is $\pm 0.5 \sim 1.5^{\circ}\text{C}$.
(It can be customized of other temperature control precision.)
- Saving about 50% of floor space.
- Using high-efficiency environmental refrigerant and without pollution.
- Up-to 95% materials of machine are recyclable and eco-friendly.

規格表 COD SERIES SPECIFICATION

型式 Model		COD-04	COD-08	COD-12	COD-24	COD-36	COD-60
冷卻能力Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	19200/24000	28800/36000	48000/60000
	KCAL / HR 50/60Hz	800 / 1000	1600/2000	2400/3000	4800/6000	7200/9000	12000/15000
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	5630/7040	8445/10555	14075/17595
使用範圍 Operative range	室溫 Room temperature	5 $^{\circ}\text{C} \sim 45^{\circ}\text{C}$					
	液溫 Liquid temperature	5 $^{\circ}\text{C} \sim 45^{\circ}\text{C}$					
設定範圍 Setting range	差溫控制 Differential temperature controller	-9.9 $^{\circ}\text{C} \sim 9.9^{\circ}\text{C}$					
	定溫控制 Constant temperature controller	20 $^{\circ}\text{C} \sim 40^{\circ}\text{C}$					
電源 Power source	V	3Ø AC220V 50/60Hz					
總負荷電流 Total load current	A	10	11	14	17	21	30
泵浦馬力 Pump horsepower	W	180	375	750	750	750	750
泵浦吐出量 Pump discharge rate	l/min	3.6/4.5	16/20	24/30	24/30	32/40	40/50
油箱 Oil tank	liter	20	30	45	45	74	95
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1" x 1"	1"x1"	1-1/4"x1-1/4"
外型尺寸 Dimension (D x W x H)	mm	487x728x1289	487x778x1389	487x778x1389	487x778x1389	736x767x1552	911x942x1654
總重量 Weight	kg	121	135	175	178	181	187
冷媒 Refrigerant	gas	R134a / R407C					

* 能力測試數據標準點(進口溫度25 $^{\circ}\text{C}$ 、環境溫度35 $^{\circ}\text{C}$ 、60Hz) (參考值)

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* Standards of capability test data: Inlet temperature: 25 $^{\circ}\text{C}$, Ambient temperature: 35 $^{\circ}\text{C}$, 60Hz. (F.Y.R)

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單機雙溫控單液體(雙液體)水冷卻機

DUAL TEMPERATURE SINGLE LIQUID (DUAL LIQUID) WATER CHILLER



適用機械種類

- PCB鑽孔機
- 雷射加工設備
- 產業專用設備

特性及功能

- 單一冷凍迴路，複數水循環迴路，精準提供獨立流量及壓力。
- 不同液體同時溫控需求，可客製化。
- 雙基板各別針對複數迴路進行溫度控制，並可分別獨立調整需求溫度。
- 具溫度補償與預熱功能。
- 溫控精度 $\pm 0.5^{\circ}\text{C} \sim 1.5^{\circ}\text{C}$ (其他溫控精度可客製化)。
- 佔地面積節省約50%。
- 採用新型高效率環保冷媒，不污染環境。
- 整機高達95%以上材料可回收，為環保盡一份心力。

APPLICATION

- PCB drilling machine
- Laser processing equipment
- Industrial specialized equipment

FEATURE

- Single refrigerant circuit is with multiple water circuits, and it provides independent flow rate and pressure precisely.
- Different liquids can be controlled temperature at the same time, and it can be customized.
- Temperature control of Dual-PCB for each of plural circuits and it can be adjusted temperature individually.
- It has temperature compensation function and preheated function.
- Temperature control precision is $\pm 0.5^{\circ}\text{C} \sim 1.5^{\circ}\text{C}$. (It can be customized of other temperature control precision.)
- Saving about 50% of floor space.
- Using high-efficiency environmental refrigerant and without pollution.
- Up-to 95% materials of machine are recyclable and eco-friendly.

規格表 CWAD SERIES SPECIFICATION

型式 Model		CWAD-04	CWAD-08	CWAD-12	CWAD-24	CWAD-36	CWAD-60
冷卻能力Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	19200/24000	28800/36000	48000/60000
	KCAL/HR 50/60Hz	800 / 1000	1600/2000	2400/3000	4800/6000	7200/9000	12000/15000
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	5630/7040	8445/10555	14075/17595
使用範圍 Operative range	室溫 Room temperature	5 $^{\circ}\text{C} \sim 45^{\circ}\text{C}$					
	液溫 Liquid temperature	5 $^{\circ}\text{C} \sim 45^{\circ}\text{C}$					
設定範圍 Setting range	差溫控制 Differential temperature controller	-9.9 $^{\circ}\text{C} \sim 9.9^{\circ}\text{C}$					
	定溫控制 Constant temperature controller	20 $^{\circ}\text{C} \sim 40^{\circ}\text{C}$					
電源 Power source	V	3Ø AC220V 50/60Hz					
總負荷電流 Total load current	A	10	11	14	17	21	30
泵浦馬力 Pump horsepower	W	450/560	450/560	450/560	530/750	700/1060	700/1060
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	16/20	24/30	40/50	40/50
水箱 Water Tank	liter	20	30	45	45	74	95
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1" x 1"	1" x 1"	1-1/4"x1-1/4"
外型尺寸 Dimension (D x W x H)	mm	487x728x1289	487x778x1389	487x778x1389	487x778x1389	736x767x1552	911x942x1654
總重量 Weight	kg	121	135	175	178	181	187
冷媒 Refrigerant	gas	R134a / R407C					

* 能力測試數據標準點(進口溫度25 $^{\circ}\text{C}$ ・環境溫度35 $^{\circ}\text{C}$ ・60HZ) (參考值)

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單機雙溫控半導體製程設備無壓縮機水冷卻機

DUAL TEMPERATURE CONTROL WATER CHILLER WITHOUT COMPRESSOR
FOR SEMICONDUCTOR PROCESSING EQUIPMENT

EWWD SERIES



適用機械種類

- PCB鑽孔機
- 雷射加工設備
- 半導體製程設備

特性及功能

- 無壓縮機，無需使用冷媒。
- 使用SUS 304 / 316板式熱交換器，提升熱交換率，維持水質純淨，不會產生鏽蝕導致水迴路阻塞故障。
- 使用廠務水散熱，達到節能減碳的效果。
- 可同時進行兩種溫度的恆溫控制。
- 佔地面積縮小。

APPLICATION

- PCB drilling machine
- Laser processing Equipment
- Semiconductor processing equipment

FEATURE

- There is no compressor, and doesn't need refrigerant.
- SUS304/316 plate type heat exchanger is used to improve heat exchange rate. It could maintain water in pure, and prevent clogging or breakdown from rust.
- Using water tower is for cooling, and could achieve effect of energy saving and carbon reduction.
- It could proceed two types of constant temperature control at the same time.
- Space-saving.

規格表 EWWD SERIES SPECIFICATION

型式 Model		EWWD-08	EWWD-12	EWWD-24	EWWD-36	EWWD-60
冷卻能力Cooling capacity	BTU/HR 50/60Hz	6400/8000	9600/12000	19200/24000	28800/36000	48000/60000
	KCAL/HR 50/60Hz	1600/2000	2400/3000	4800/6000	7200/9000	12000/15000
	W 50/60Hz	1875/2345	2815/3520	5630/7040	8445/10555	14075/17595
使用範圍 Operative range	室溫 Room temperature	5 °C ~ 45 °C				
	液溫 Liquid temperature	5 °C ~ 45 °C				
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9 °C ~ 9.9 °C				
	定溫控制 Constant temperature controller	20 °C ~ 40 °C				
電源 Power source	V	3Ø AC220V 50/60Hz				
總負荷電流 Total load current	A	5	5	5	5	7
泵浦馬力 Pump horsepower	W	450/560	450/560	530/750	700/1060	700/1060
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	24/30	40/50	40/50
水箱 Water tank	liter	45	45	45	74	95
進出口管徑 Inlet and outlet pipe-diameter	inch	3/4" x 3/4"	1" x 1"	1" x 1"	1" x 1"	1-1/4" x 1-1/4"
外型尺寸 Dimension (D x W x H)	mm	487x780x1058	487x780x1058	487x780x1058	736x767x1552	911"x942x1654
總重量 Weight	kg	135	175	178	181	187

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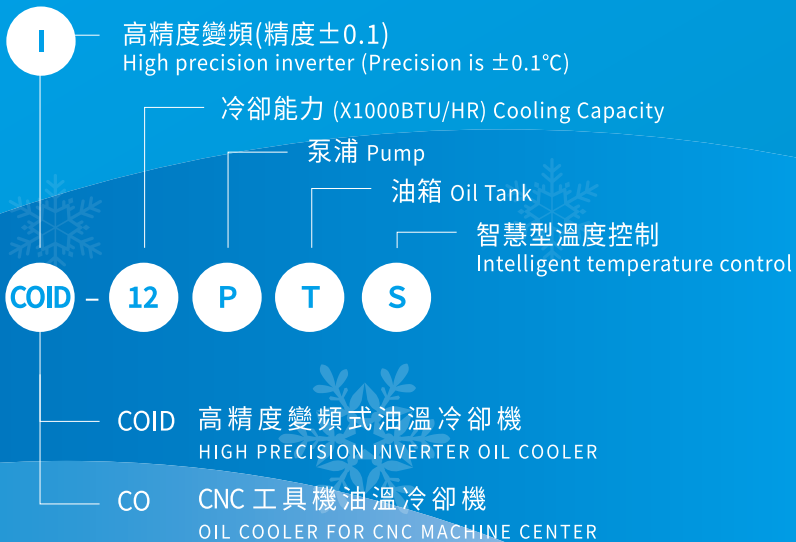
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油溫冷卻機系列

OIL COOLER SERIES

Example of model 範例機型 CO-4PTS





高精度變頻式油溫冷卻機

HIGH PRECISION INVERTER OIL COOLER

COID SERIES



GOLDEN PIN
DESIGN MARK
金點設計標圖



Scan Photo AR Experience

適用機械種類

- CNC磨床
- CNC龍門磨床、銑床
- CNC五軸綜合加工中心機
- CNC綜合立、臥式加工中心機
- 各種高精度溫控需求之精密機械及高速主軸

特性及功能

- 全系列採用變頻式壓縮機，擁有平滑式啟動，無瞬間大啟動電流特性，可節省耗電達33%以上。
- 獨家設計多功能液晶面板，提供 $\pm 0.1^{\circ}\text{C}$ 溫控穩定性。
- 十五項故障保護功能，確保冷卻機正常功能運轉。
- 低發熱負載時，冷卻機低負荷運轉，兼具精準溫控及節能效益。
- 凹槽式嵌入面板設計，可降低油氣滲透入電氣控制單元。
- 採用高效率熱交換器，提升冷卻效率。
- 採用新型高效率環保冷媒，不污染環境。
- 整機高達95%以上材料可回收，為環保盡一份心力。

APPLICATION

- CNC grinding machine
- CNC double column grinding and milling machine
- CNC machine center (5-axis)
- CNC vertical & horizontal machine center
- Industries and high-precision spindles with high-speed precision requirement

FEATURE

- Full series of inverter compressors are smooth start. There is no-start instantaneous high current and saving power more than 33%.
- Unique design of multi-function LCD panel and it's provided $\pm 0.1^{\circ}\text{C}$ temperature control stabilization.
- There are 15 malfunction protection functions to ensure normal function operation of cooler.
- When low heating load is happend, cooler is operation low load and combined accurate temperature control and energy saving.
- Groove recessed panel design is reducing oil mist infiltration into electrical control unit.
- Using high-efficiency heat exchanger to enhance cooling efficiency.
- Using high-efficiency environmental refrigerant and without pollution.
- Up-to 95% materials of machine are recyclable and eco-friendly.

規格表 COID SERIES SPECIFICATION

型式 Model		COID-04	COID-08	COID-12	COID-24	COI-36
冷卻能力Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	19200/24000	28800/36000
	KCAL/HR 50/60Hz	800 / 1000	1600/2000	2400/3000	4800/6000	7200/9000
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	5630/7040	8445/10555
使用範圍 Operative range	室溫 Room temperature	5°C~45°C				
	液溫 Liquid temperature	5°C~45°C				
設定範圍 Setting range	差溫控制 Differential temperature controller	-9.9 °C ~ 9.9°C				
	定溫控制 Constant temperature controller	20°C~40°C				
電源 Power source	V	3Ø AC220V 50/60Hz				
總負荷電流 Total load current	A	6	11	19	20	25
泵浦馬力 Pump horsepower	W	180	375	750	750	750
泵浦吐出量 Pump discharge rate	l/min	3.6/4.5	16/20	24/20	24/30	32/40
油箱 Oil tank	liter	20	30	45	45	95
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1" x 1"	1"x1"
外型尺寸 Dimension (D x W x H)	mm	487x650x1092	487x650x1092	487x778x1389	487x778x1389	736x767x1552
總重量 Weight	kg	65	102	127	168	212
冷媒 Refrigerant	gas	R410A				

* 能力測試數據標準(進口溫度25°C、環境溫度35°C、60HZ)(參考值)
* 特殊規格設計及其他電壓需求請與我司聯絡
* 本公司因技術需求或升級有隨時更改內容、文字、產品規格之權利，變更恕不另行通知

* Standards of capability test data: Inlet temperature: 25°C, Ambient temperature: 35°C, 60HZ. (F.Y.R)
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CNC工具機油溫冷卻機

OIL COOLER FOR CNC MACHINE CENTER



適用機械種類

- 各種油壓專用設備
- CNC車床、高速車床
- CNC磨床、拉床、沖床
- CNC五面綜合加工中心機
- CNC木工雕刻機、油壓機械
- CNC綜合立、臥式加工中心機

特性及功能

- 防止CNC工作機械主軸因油溫的變化而影響加工精度。
- 保持油溫穩定防止油質劣化，並保持潤滑油黏度不變，使主軸動作穩定。
- 本機採用機體同步溫度控制面板，讓油溫追隨室溫，防止機械結構熱脹冷縮。
- 具備故障自動檢測顯示功能，透過電腦連線告知CNC主機故障情形，避免機件損壞。
- 採用新型高效率環保冷媒，不污染環境。

APPLICATION

- Oil hydraulic equipment
- CNC lathe and high-speed lathe
- CNC grinding, broaching and pressing machine
- CNC machine center (5-axis)
- CNC wood carving and oil hydraulic machine
- CNC vertical & horizontal machine center

FEATURE

- It is maintained constant oil temperature in order to prevent processing precision-losing.
- It is kept oil viscosity and avoid oil deterioration to stable spindle working.
- It is used temperature control panel to avoid thermal expansion.
- Built-in failure-detection system that connects to control panel in order to warn users and prevent further damage to machine.
- Filling high-efficiency environmental refrigerant, without pollution.

規格表 CO SERIES SPECIFICATION

型式 Model		CO-04	CO-06	CO-08	CO-12	CO-18	CO-24	CO-36	CO-60	CO-90	CO-120
冷卻能力 Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	4800/6000	6400/8000	9600/12000	14400/18000	19200/24000	28800/36000	48000/60000	72000/90000	96000/120000
	KCAL/HR 50/60Hz	800 / 1000	1200/1500	1600/2000	2400/3000	3600/4500	4800/6000	7200/9000	12000/15000	18000/22500	24000/30000
	W 50/60Hz	940 / 1175	1405/1760	1875/2345	2815/3520	4220/5280	5630/7040	8445/10555	14075/17575	21115/26390	28150/35190
使用範圍 Operative range	室溫 Room temperature	5°C~45°C									
	液溫 Liquid temperature	5°C~45°C									
設定範圍 Setting range	差溫控制 Differential temperature controller	-9.9°C ~ 9.9°C									
	定溫控制 Constant temperature controller	20°C~40°C									
電源 Power source	V	3Ø AC220V 50/60Hz									
總負荷電流 Total load current	A	4	5	5	7	10	12	18	25	40	46
泵浦馬力 Pump horsepower	W	180	375	375	750	750	750	750	750	2250	2250
泵浦吐出量 Pump discharge rate	l/min	3.6/4.5	16/20	16/20	24/30	24/30	24/30	34/40	40/50	64/80	80/100
油箱 Oil tank	liter	20	30	30	40	45	45	74	100	133	133
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2"x1/2"	3/4"x3/4"	3/4"x3/4"	1" x 1"	1" x 1"	1" x 1"	1" x 1"	1-1/4"x1-1/4"	1-1/4"x1-1/4"	1-1/2"x1-1/2"
外型尺寸 Dimension (D x W x H)	mm	365x446x826	486x554x1332	505x650x1312	674x544x1307	736x767x1552	911x942x1654	1350x1020x1788	1650x1100x1784		
總重量 Weight	kg	51	117	119	156	160	160	210	300	389	430
冷媒 Refrigerant	gas	R134a / R407C									

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60Hz) (參考值)

* 特殊規格設計及其它電壓需求請與我司聯絡

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切削液專用冷卻機系列

CUTTING LIQUID MACHINE COOLER SERIES

Example of model 範例機型 CE-12PS

冷卻能力 (X1000BTU/HR) Cooling Capacity

泵浦 Pump

智慧型溫度控制
Intelligent temperature control

CE

12

P

S

CE

放電加工(火花)機專用冷卻機
EDM MACHINE COOLER

CK

工具機切削液專用冷卻機
CNC CUTTING MACHINE COOLER



放電加工(火花)機專用冷卻機

EDM MACHINE COOLER



適用機械種類

- CNC切削加工機械
- 線切割機、放電加工機(火花機)

特性及功能

- 防止放電油溫升高, 確保加工零件品質。
- 防止車刀磨損, 增加使用壽命。
- 保持加工物件恆溫, 防止熱變形, 確保加工精度, 縮短生產時間。
- 採特殊設計之熱交換器, 不易被加工後之鋼屑粉粒阻塞。
- 採用新型高效率環保冷媒, 不污染環境。

APPLICATION

- CNC cutting machine
- Wire cutting machine and EDM machine

FEATURE

- It is reduced temperature rising that ensures quality of EDM processing.
- It is prevented cutting tools attrition and longer life-cycle.
- It is maintained constant oil temperature for processing objects, prevented thermal deformation, maintained precision during processing, and is shorter production.
- Special designed heat exchanger could be prevented clogging or breakdown from iron filings.
- Filling high-efficiency environmental refrigerant, without pollution.

規格表 CE SERIES SPECIFICATION

型式 Model		CE-04	CE-06	CE-08	CE-12	CE-18	CE-24	CE-36	CE-60	CE-90	CE-120
冷卻能力 Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	4800/6000	6400/8000	9600/12000	14400/18000	19200/24000	28800/36000	48000/60000	72000/90000	96000/120000
	KCAL/HR 50/60Hz	800 / 1000	1200/1500	1600/2000	2400/3000	3600/4500	4800/6000	7200/9000	12000/15000	18000/22500	24000/30000
	W 50/60Hz	940 / 1175	1405/1760	1875/2345	2815/3520	4220/5280	5630/7040	8445/10555	14075/17595	21115/26390	28150/35190
使用範圍 Operative range	室溫 Room temperature	5°C~45°C									
	液溫 Liquid temperature	5°C~45°C									
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9 °C ~ 9.9°C									
	定溫控制 Constant temperature controller	25°C~40°C									
電源 Power source	V	3Ø AC220V 50/60Hz									
總負荷電流 Total load current	A	4	5	5	7	10	12	18	25	40	46
泵浦吐量 Pump discharge rate	l/min	16/20	16/20	16/20	16/20	24/30	24/30	40/50	40/50	80/100	80/100
進出口管徑 Inlet and outlet pipe-diameter	inch	1"x1"	1"x1"	1"x1"	1"x1"	1"x1"	1"x1"	1"x1"	1-1/4"x1-1/4"	1-1/4"x1-1/4"	1-1/2"x1-1/2"
外型尺寸 Dimension (D x W x H)	mm	408x467x893	423x496x863			674x544x1307	736x767x1552	911x942x1654	1350x1020x1788	1650x1100x1784	
總重量 Weight	kg	51	54	54	68	109	160	210	300	389	430
冷媒 Refrigerant	gas	R134a / R407C									

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60HZ) (參考值)

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工具機切削液冷卻機

CNC CUTTING MACHINE COOLER

CK SERIES



適用機械種類

- CNC內外徑研磨機
- CNC切削專用機械
- CNC車床、磨床、銑床
- 汽車零組件生產線設備
- CNC綜合立、臥式加工中心機



特性及功能

- 本機為切削加工冷卻機，不受雜質污泥及切削金屬粉等所干擾。
- 不鏽鋼材質油浸式盤管熱交換效率高，不會產生氧化現象。
- 安裝方便，不佔空間，清潔簡單保養容易。
- 採用新型高效率環保冷媒，不污染環境。



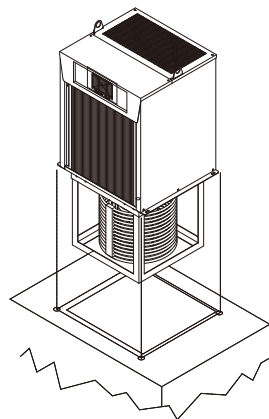
APPLICATION

- CNC internal and external diameter machine
- CNC cutting machine
- CNC lathe, grinding and milling machine
- Production for auto parts industry
- CNC vertical & horizontal machine center



FEATURE

- It is designed for turning and cutting machine. No impurities or metal clog interference.
- Stainless steel coil tubes are high heat exchange efficiency to ensure no corrosion problem.
- It is easy to install and space-saving, easy to clean and maintain.
- Filling high-efficiency environmental refrigerant, without pollution.



規格表 CK SERIES SPECIFICATION

型式 Model		CK-04S	CK-08S	CK-12S	CK-18S	CK-24S	CK-36S	CK-60S	CK-90S
冷卻能力Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	14400/18000	19200/24000	28800/36000	48000/60000	72000/90000
	KCAL/HR 50/60Hz	800 / 1000	1600/2000	2400/3000	3600/4500	4800/6000	7200/9000	12000/15000	18000/22500
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	4220/5280	5630/7040	8445/10555	14075/17595	21115/26390
使用範圍 Operative range	室溫 Room temperature	5°C~45°C							
	液溫 Liquid temperature	5°C~45°C							
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9 °C ~ 9.9°C							
	定溫控制 Constant temperature controller	20°C~40°C							
電源 Power source	V	1Ø AC220V 50/60Hz	3Ø AC220V 50/60Hz						
總消耗功率 Total consumption	KW	4	5	5	8	8	11	12	28
總負荷電流 Total load current	A	0.9	1.9	1.9	3.1	3.1	4.2	4.6	10.7
外型尺寸 Dimension (DxWxH)	mm	360x440x763	456x426x981		750x550x1166		770x781x1178	926x656x1804	1184x650x1829
總重量 Weight	gas	41	57	57	98	98	128	172	251
冷媒 Refrigerant	kg	R134a / R407C							

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60Hz) (參考值)

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水冷卻機系列

WATER CHILLER SERIES

Example of model 範例機型 CWA-24PTS

高精度變頻(精度 ± 0.1)
High precision inverter
(Precision is $\pm 0.1^{\circ}\text{C}$)

冷卻能力 (X1000BTU/HR) Cooling Capacity

泵浦 Pump

水箱 Water Tank

智慧型溫度控制
Intelligent temperature control
智慧型PID溫度控制
Intelligent PID temperature control

CLID

A

12

P

T

S

散熱方式
HEAT DISSIPATION WAY

A: 氣冷式 Air Type
W: 水冷式 Water Type

CM	超低溫冷凍吸盤 SUPER LOW TEMPERATURE FREEZING SUCTION PAD
CLID	雷射機專用高精度變頻式水冷卻機 HIGH PRECISION INVERTER WATER CHILLER FOR LASER PROCESSING EQUIPMENT
CWID	產業機械專用高精度變頻式水冷卻機 HIGH PRECISION INVERTER WATER CHILLER FOR MACHINE PROCESSING EQUIPMENT
CS	光電・半導體・太陽能設備專用冷卻機 WATER CHILLER FOR OPTOELECTRONICS, SEMICONDUCTOR AND SOLAR ENERGY INDUSTRIES
CL	雷射(激光)加工設備專用冷卻機 WATER CHILLER FOR LASER PROCESSING EQUIPMENT

CW 產業機械專用水冷卻機
WATER CHILLER FOR MACHINE PROCESSING EQUIPMENT

CLT 超低溫水冷卻機
LOW TEMPERATURE WATER CHILLER

EWV 半導體製程設備無壓縮機水冷卻機
WATER CHILLER WITHOUT COMPRESSOR FOR SEMICONDUCTOR PROCESSING EQUIPMENT

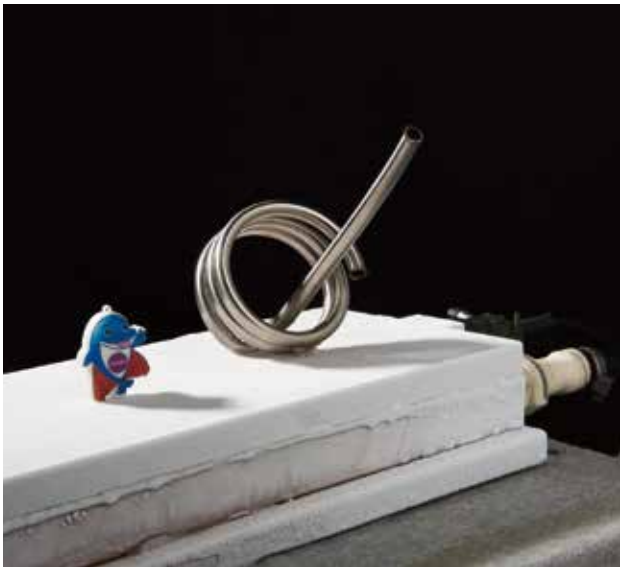




超低溫冷凍吸盤

SUPER LOW TEMPERATURE FREEZING SUCTION PAD

CM SERIES



適用機械種類

- 陶瓷雕刻
- CNC雕刻機
- 飾品加工雕刻
- CNC銑床、磨床(乾式輕加工用)
- 非磁性加工件加工設備

特性及功能

- 短時間急速結凍原理來固定加工件，進而成為無夾痕且不破壞加工件外型的最佳高效率治具。
- 不管加工件的外型再多變，都能穩固的將加工件固定。
- 可適用於各種非磁性及不可用傳統夾具夾持之加工件。
- 盤面採純銅材質，熱傳效率高，防水設計周密及採用高效、具省電功能的特殊致冷晶片。
- 採用新型高效率環保冷媒，不污染環境。

APPLICATION

- Carving for ceramics industry
- CNC carving machine
- Carving for jewelry industry
- CNC milling and grinding machine(For dryness light processing)
- Non-magnetic processing equipment

FEATURE

- It is fixed workpiece in a short time by liquid rapid freezing principle, with no clamp marks and no damage on workpieces.
- It is fixed workpiece firmly, suitable for regular and irregular workpiece shape.
- It is suitable for nonmagnetic and unclamped workpiece.
- Plate is made by copper that is waterproof, high-efficiency heat conductor and with special thermoelectric modules inside pad to save energy.
- Filling high-efficiency environmental refrigerant, without pollution.

規格表 CM SERIES SPECIFICATION

型式 Model		CM-510	CM-520	CM-530
冷卻能力 Cooling capacity	BTU/HR 50/60Hz	9600/12000	19200/24000	19200/24000
	KCAL/HR 50/60Hz	2400/3000	4800/6000	4800/6000
	W 50/60Hz	2815/3520	5630/7040	5630/7040
致冷晶片冷卻能力 TE module capacity	W	510	680	850
致冷晶片消耗電流 TE module consumption current	A	10	10	10
致冷晶片溫度控制 TE module temp	°C	冷卻 COOL-30°C 加熱 HEAT+15°C	冷卻 COOL-30°C 加熱 HEAT+15°C	冷卻 COOL-30°C 加熱 HEAT+15°C
晶片冷卻液 TE module coolant		水+乙二醇 Water + Glycol		
冷凍液低溫範圍 Coolant low temperature range	°C	-15°C		
泵浦吐出量 Pump discharge rate	l/min	16/20	24/30	
冷卻機耗用電流 Chiller consumption current	A	8	10	10
冷卻機外型尺寸 Chiller dimension (D x W x H)	mm	521x510x1066	675x545x1265	675x545x1265
冷凍吸盤尺寸 Freezing suction pad dimension (D x W x H)	mm	150x200x60	150x300x60	150x400x60
總重量 Chiller weight with suction pad	kg	137	162	207
冷媒 Refrigerant	gas	R404A		

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60HZ) (參考值)

* 特殊規格設計及其它電壓需求請與我司聯絡

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* Standards of capability test data: Inlet temperature: 25°C, Ambient temperature: 35°C, 60HZ. (F.Y.R)

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雷射機專用高精度變頻式水冷卻機

HIGH PRECISION INVERTER WATER CHILLER FOR LASER PROCESSING EQUIPMENT



台灣精品 2008
TAIWAN EXCELLENCE

適用機械種類

- PCB雷射鑽孔機
- 雷射精密雕刻加工設備
- 3D金屬成型雷射加工設備

特性及功能

- 全系列採用變頻式壓縮機，擁有平滑式啟動，無瞬間大啟動電流特性，可節省耗電達33%以上。
- 獨家設計多功能液晶面板及控制基板，提供 $\pm 0.1^{\circ}\text{C}$ 溫控穩定性。
- 十五項故障保護功能，全方位確保冷卻機正常功能運轉。
- 低發熱負載時，冷卻機低負荷運轉，兼具精準溫控及節能效益。
- 凹槽式嵌入面板設計，可降低粉塵、水氣滲透入電氣控制單元。
- 採用高效率熱交換器，提升冷卻效率。
- 採用新型高效率環保冷媒，不污染環境。
- 整機高達95%以上材料可回收，兼固環保。

APPLICATION

- PCB laser drilling machine
- Laser precision engraving processing equipment
- 3D metal forming laser processing equipment

FEATURE

- Full series of inverter compressors are smooth start. There is no-start instantaneous high current and saving power more than 33%.
- Unique design of multi-function LCD panel and control PCB and it's provided $\pm 0.1^{\circ}\text{C}$ temperature control stabilization.
- There are 15 malfunction protection functions to ensure which is normal function operation of chiller.
- When low heating load is happened, and chiller is operation low load. It is combined accurate temperature control and energy saving.
- Groove type recessed panel design for reducing dust and vapor infiltration into electrical control units.
- Using high-efficiency heat exchanger to enhance cooling efficiency.
- Using high-efficiency environmental refrigerant and without pollution.
- Up-to 95% materials of machine are recyclable and eco-friendly.

規格表 CLID SERIES SPECIFICATION

型式 Model		CLID-04	CLID-08	CLID-12	CLID-24	CLID-36
冷卻能力 Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	19200/24000	28800/36000
	KCAL/HR 50/60Hz	800 / 1000	1600/2000	2400/3000	4800/6000	7200/9000
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	5630/7040	8445/10555
使用範圍 Operative range	室溫 Room temperature	5°C~45°C				
	液溫 Liquid temperature	5°C~45°C				
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9°C ~ 9.9°C				
	定溫控制 Constant temperature controller	20°C~40°C				
電源 Power source	V	3Ø AC220V 50/60Hz				
總負荷電流 Total load current	A	6	11	19	20	25
泵浦馬力 Pump horsepower	W	450/560	450/560	450/560	530/750	700/1060
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	16/20	24/30	40/50
水箱 Water tank	liter	20	30	45	45	95
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1" x 1"	1" x 1"
外型尺寸 Dimension (D x W x H)	mm	487x650x1092	487x650x1092	487x778x1389	487x778x1389	736x767x1552
總重量 Weight	kg	65	102	127	168	212
冷媒 Refrigerant	gas	R410A				

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60Hz)(參考值)

* 特殊規格設計及其他電壓需求請與我聯絡

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* Standards of capability test data: Inlet temperature: 25°C, Ambient temperature: 35°C, 60Hz. (F.Y.R)

* If you have special specifications or need of other Voltage, please contact us.

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產業機械專用高精度變頻式水冷卻機

HIGH PRECISION INVERTER WATER CHILLER FOR MACHINE PROCESSING EQUIPMENT

CWID SERIES



適用機械種類

- CNC高精度磨床
- 龍門五軸加工中心機
- CNC五面綜合加工中心機
- CNC綜合立、臥式加工中心機(高速主軸用)
- 各種高精度溫控需求之產業設備
- 各種光電、半導體及太陽能產業設備製程中的冷卻

特性及功能

- 全系列採用變頻式壓縮機，擁有平滑式啟動，無瞬間大啟動電流特性，可節省耗電達33%以上。
- 獨家設計多功能液晶面板及控制基板，提供 $\pm 0.1^{\circ}\text{C}$ 溫控穩定性。
- 十五項故障保護功能，全方位確保冷卻機正常功能。
- 低發熱負載時，冷卻機低負荷運轉，兼具精準溫控及節能效益。
- 凹槽式嵌入面板設計，可降低粉塵、水氣滲透入電氣控制單元。
- 採用高效率熱交換器，提升冷卻效率。
- 採用新型高效率環保冷媒，不污染環境。
- 整機高達95%以上材料可回收，兼固環保。

APPLICATION

- CNC high-precision grinding machine
- Double column 5-axis machine center
- CNC machine center (5-axis)
- CNC vertical & horizontal machine center(For High-Speed spindle)
- Industries with high precision requirement
- Optoelectronics, semiconductor and solar energy industries

FEATURE

- Full series of inverter compressors are smooth start. There is no-start instantaneous high current and saving power more than 33%.
- Unique design of multi-function LCD panel and control PCB and it's provided $\pm 0.1^{\circ}\text{C}$ temperature control stabilization.
- There are 15 malfunction protection functions to ensure which is normal function operation of chiller.
- When low heating load is happened, and chiller is operation low load. It is combined accurate temperature control and energy saving.
- Groove type recessed panel design for reducing dust and vapor infiltration into electrical control units.
- Using high-efficiency heat exchanger to enhance cooling efficiency.
- Using high-efficiency environmental refrigerant and without pollution.
- Up-to 95% materials of machine are recyclable and eco-friendly.

規格表 CWID SERIES SPECIFICATION

型式 Model		CWID-04	CWID-08	CWID-12	CWID-24	CWI-36
冷卻能力Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	19200/24000	28800/36000
	KCAL/HR 50/60Hz	800 / 1000	1600/2000	2400/3000	4800/6000	7200/9000
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	5630/7040	8445/10555
使用範圍 Operative range	室溫 Room temperature	5°C~45°C				
	液溫 Liquid temperature	5°C~45°C				
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9 °C ~ 9.9 °C				
	定溫控制 Constant temperature controller	20°C~40°C				
電源 Power source	V	3Ø AC220V 50/60Hz				
總負荷電流 Total load current	A	6	11	19	20	25
泵浦馬力 Pump horsepower	W	450/560	450/560	450/560	530/750	700/1060
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	16/20	24/30	40/50
水箱 Water tank	liter	20	30	45	45	95
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1" x 1"	1" x 1"
外型尺寸 Dimension (D x W x H)	mm	487x650x1092	487x650x1092	487x778x1389	487x778x1389	736x767x1552
總重量 Weight	kg	65	102	127	168	212
冷媒 Refrigerant	gas	R410A				

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60Hz)(參考值)

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光電·半導體·太陽能設備專用冷卻機

WATER CHILLER FOR OPTOELECTRONICS, SEMICONDUCTOR AND SOLAR ENERGY INDUSTRIES



適用機械種類

- 高精度雷射焊接機
- 高科技產業薄膜製程冷卻專用
- 各種光電、半導體及太陽能產業設備製程中的冷卻
- 需求高純度水質、高阻抗、去陰陽離子水的高科技產業設備專用冷卻

特性及功能

- 特殊PID溫度控制器，可使溫度保持 $\pm 0.2^{\circ}\text{C}$ 。
- 使用高壓泵浦及迴路洩壓保護系統。
- 使用SUS 304 /316板式熱交換器可提升熱交換率，維持水質純淨，不會產生鏽蝕導致迴路阻塞故障。
- 所使用之離子交換樹脂專用於半導體之DI水，可將水質導電阻抗質保持在10MΩ以上。
- 採用新型高效率環保冷媒，不污染環境。

APPLICATION

- High-precision laser welding machine
- Cooling for hi-tech industries of thin film processing
- Optoelectronics, semiconductor and solar energy industry
- Hi-Tech industries with pure water, high resistance and deionized (DI) water requirement.

FEATURE

- It is used PID thermostat to maintain temperature precision at $\pm 0.2^{\circ}\text{C}$.
- It is used high-pressure pump and protection system of circuit pressure relief.
- SUS 304/316 plate type heat exchanger is used to improve heat exchange rate. It could maintain water in pure, and prevent clogging or breakdown from rust.
- Ion Exchange Resin is special using for DI water of semiconductor, and DI water conductivity impedance value can be maintained at 10MΩ or more.
- Filling high-efficiency environmental refrigerant, without pollution.

規格表 CS SERIES SPECIFICATION

型式 Model		CS-01	CS-04	CS-06	CS-08	CS-12	CS-24	CS-36	CS-60	CS-90	CS-120
冷卻能力Cooling capacity	BTU/HR 50/60Hz	800/1000	3200/4000	4800/6000	6400/8000	9600/12000	19200/24000	28800/36000	48000/60000	72000/90000	96000/120000
	KCAL/HR 50/60Hz	200/250	800/1000	1200/1500	1600/2000	2400/3000	4800/6000	7200/9000	12000/15000	18000/22500	24000/30000
	W 50/60Hz	235/295	940/1175	1425/1760	1875/2345	2815/3520	5630/7040	8445/10555	14075/17575	21115/26390	28150/35190
使用範圍 Operative range	室溫 Room temperature	5°C~45°C									
	液溫 Liquid temperature	5°C~45°C									
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9 °C ~ 9.9°C									
	定溫控制 Constant temperature controller	20°C~40°C									
電源 Power source	V	3Ø AC220V 50/60Hz									
總負荷電流 Total load current	A	2	7	8	8	8	10	18	25	38	44
泵浦馬力 Pump horsepower	W	60/80	450/560	450/560	450/560	450/560	530/750	700/1060	700/1060	1080/1620	1080/1620
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	16/20	16/20	24/30	24/30	40/50	40/50	72/90	80/100
水箱 Water tank	liter	10	14	26	26	26	52	65	94	133	133
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	1/2" x 1/2"	3/4"x3/4"	3/4"x3/4"	1"x1"	1"x1"	1"x1"	1-1/4"x1-1/4"	1-1/4"x1-1/4"	1-1/2"x1-1/2"
外型尺寸 Dimension (D x W x H)	mm	366x444x569	407x524x961	487x554x1092			487x654x1389	736x767x1552	911x942x1654	1350x1020x1788	1650x1100x1784
總重量 Weight	kg	42	80	95	95	97	144	210	300	389	430
冷媒 Refrigerant	gas	R134a/R407C									

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60HZ)(參考值)

* 特殊規格設計及其他電壓需求請與我司聯絡

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雷射(激光)加工設備機專用冷卻機

WATER CHILLER FOR LASER PROCESSING EQUIPMENT

CL SERIES



適用機械種類

- 真空設備
- 醫療用雷射機
- PCB雷射鑽孔機
- 雷射切割加工設備
- 雷射雕刻加工設備
- 3D金屬成型雷射加工設備

特性及功能

- 採用高效率熱交換器，提升熱交換效率。
- 使用不鏽鋼泵浦，水迴路系統採不銹鋼材質及防鏽設計，保持水質純淨度。
- 氣冷散熱、水冷散熱可依客戶現場環境需求搭配。
- 安裝簡單，保養容易。
- 採用智慧型溫度控制器，精度 $\pm 0.5^{\circ}\text{C} \sim 1.5^{\circ}\text{C}$ 。
- 溫控使用範圍： $20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ，可任意設定。
- 採用新型高效率環保冷媒，不汙染環境。
- 適用水質：純水。

APPLICATION

- Vacuum equipment
- Medical laser machine
- PCB laser drilling machine
- Laser cutting equipment
- Laser engraving equipment
- 3D metal forming laser processing Equipment

FEATURE

- It is used high-efficiency heat exchanger to increase heat exchanger rate.
- It is used stainless steel pump, with stainless steel and antirust for system of water circuit to keep water in pure.
- It is easy to install and maintain.
- Intelligent temperature control with precision is $\pm 0.5^{\circ}\text{C} \sim 1.5^{\circ}\text{C}$.
- Temperature range is $20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ and can be set arbitrarily.
- Filling high-efficiency environmental refrigerant, without pollution.
- Water quality: pure water.

規格表 CL SERIES SPECIFICATION

型式 Model		CL-01	CL-04	CL-06	CL-08	CL-12	CL-24	CL-36	CL-60	CL-90	CL-120
冷卻能力Cooling capacity	BTU/HR 50/60Hz	800/1000	3200 / 4000	4800/6000	6400/8000	9600/12000	19200/24000	28800/36000	48000/60000	72000/90000	96000/120000
	KCAL/HR 50/60Hz	200/250	800 / 1000	1200/1500	1600/2000	2400/3000	4800/6000	7200/9000	12000/15000	18000/22500	24000/30000
	W 50/60Hz	235/295	940 / 1175	1405/1760	1875/2345	2815/3520	5630/7040	8445/10555	14075/17575	21115/26390	28150/35190
使用範圍 Operative range	室溫 Room temperature	$5^{\circ}\text{C} \sim 45^{\circ}\text{C}$									
	液溫 Liquid temperature	$5^{\circ}\text{C} \sim 45^{\circ}\text{C}$									
設定範圍 Setting range	差溫控制 Differential temperature controller	$-9.9^{\circ}\text{C} \sim 9.9^{\circ}\text{C}$									
	定溫控制 Constant temperature controller	$20^{\circ}\text{C} \sim 40^{\circ}\text{C}$									
電源 Power source	V	3Ø AC220V 50/60Hz									
總負荷電流 Total load current	A	2	7	8	8	8	10	18	25	38	44
泵浦馬力 Pump horsepower	W	60/80	450/560	450/560	450/560	450/560	530/750	700/1060	700/1060	1080/1620	1080/1620
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	16/20	16/20	24/30	24/30	40/50	40/50	72/90	80/100
水箱 Water tank	liter	10	14	26	26	26	52	65	94	133	133
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2"x 1/2"	1/2"x1/2"	3/4"x3/4"	3/4"x3/4"	1"x1"	1"x1"	1"x1"	1-1/4"x1-1/4"	1-1/4"x1-1/4"	1-1/2"x1-1/2"
外型尺寸 Dimension (D x W x H)	mm	366x444x569	407x524x961	487x554x1092			487x654x1389	736x767x1552	911x942x1654	1350x1020x1788	1650x1100x1784
總重量 Weight	kg	42	80	95	95	97	144	210	300	389	430
冷媒 Refrigerant	gas	R134a/R407C									

* 能力測試數據標準點(進口溫度 25°C 、環境溫度 35°C 、 60HZ) (參考值)

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產業機械專用水冷卻機

WATER CHILLER FOR MACHINE PROCESSING EQUIPMENT



Scan Photo AR Experience

適用機械種類

- 各種產業設備之專用水冷卻機

特性及功能

- 採用高效率熱交換器，提升熱交換效率。
- 氣冷散熱、水冷散熱可依客戶現場環境需求搭配。
- 安裝簡單，保養容易。
- 採用智慧型溫度控制器，精度 $\pm 0.5^{\circ}\text{C} \sim 1.5^{\circ}\text{C}$ 。
- 溫度使用範圍 $20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ，可任意設定。
- 採用新型高效率環保冷媒，不污染環境。
- 適用水質：自來水、一般用水。

APPLICATION

- Water chiller for all industrial processing machine equipment.

FEATURE

- It is used high-efficiency heat exchanger to increase the heat exchanger rate.
- Air type or water type heat dissipation can be set depending on client's work environment.
- It is easy to install and maintain.
- Intelligent temperature control with precision is $\pm 0.5^{\circ}\text{C} \sim 1.5^{\circ}\text{C}$.
- Temperature range is $20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ and can be set arbitrarily.
- Filling high-efficiency environmental refrigerant, without pollution.
- Water quality: running water, tap water.

規格表 CW SERIES SPECIFICATION

型式 Model		CW-01	CW-04	CW-06	CW-08	CW-12	CW-24	CW-36	CW-60	CW-90	CW-120
冷卻能力 Cooling capacity	BTU/HR 50/60Hz	800/1000	3200/4000	4800/6000	6400/8000	9600/12000	19200/24000	28800/36000	48000/60000	72000/90000	96000/120000
	KCAL/HR 50/60Hz	200/250	800/1000	1200/1500	1600/2000	2400/3000	4800/6000	7200/9000	12000/15000	18000/22500	24000/30000
	W 50/60Hz	235/295	940/1175	1405/1760	1875/2345	2815/3520	5630/7040	8445/10555	14075/17575	21115/26390	28150/35190
使用範圍 Operative range	室溫 Room temperature	$5^{\circ}\text{C} \sim 45^{\circ}\text{C}$									
	液溫 Liquid temperature	$5^{\circ}\text{C} \sim 45^{\circ}\text{C}$									
設定範圍 Setting range	差溫控制 Differential temperature controller	$-9.9^{\circ}\text{C} \sim 9.9^{\circ}\text{C}$									
	定溫控制 Constant temperature controller	$20^{\circ}\text{C} \sim 40^{\circ}\text{C}$									
電源 Power source	V	3Ø AC220V 50/60Hz									
總負荷電流 Total load current	A	2	7	8	8	8	10	18	25	38	44
泵浦馬力 Pump horsepower	W 50/60Hz	60/80	450/560	450/560	450/560	450/560	530/750	700/1060	700/1060	1080/1620	1080/1620
泵浦吐出量 Pump discharge rate	l/min 50/60Hz	16/20	16/20	16/20	16/20	24/30	24/30	40/50	40/50	72/90	80/100
水箱 Water tank	liter	10	14	26	26	26	52	65	94	133	133
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	1/2" x 1/2"	3/4"x3/4"	3/4"x3/4"	1"x1"	1"x1"	1"x1"	1-1/4"x1-1/4"	1-1/4"x1-1/4"	1-1/2"x1-1/2"
外型尺寸 Dimension (D x W x H)	mm	366x444x569	407x524x961	487x554x1092			487x654x1389	736x767x1552	911x942x1654	1350x1020x1788	1650x1100x1784
總重量 Weight	kg	42	80	95	95	97	144	210	300	389	430
冷媒 Refrigerant	gas	R134a/R407C									

* 能力測試數據標準點(進口溫度 25°C 、環境溫度 35°C 、 60Hz)(參考值)

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超低溫水冷卻機

LOW TEMPERATURE WATER CHILLER

CLT SERIES



適用機械種類

- 半導體產業設備
- 低溫製程加工設備
- CMP研磨材料設備
- 實驗室低溫實驗設備
- 奈米等級電子製造及檢測設備
- 化學材料製程設備 (間接冷卻恆溫控制)

特性及功能

- 使用溫度範圍+5~-20°C (低溫限定: 中低溫 -10~-20°C)。
- 可針對過冷飽和溶液進行恆溫控制。
- 使用特殊材質軸封循環幫浦。
- 使用SUS 304/316板式熱交換器, 提升熱交換效率。
- 使用進口零件, 強化使用可靠度。
- 具低溫冷凍迴路保護設計。

APPLICATION

- Semi-conductor industry equipment
- Low-temperature processing equipment
- CMP grinding material equipment
- Laboratory low temperature experiment equipment
- Nano-level electronic manufacturing and testing equipment
- Chemical material processing equipment (Indirect cooling and constant temperature control)

FEATURE

- It is used of temperature range is +5 °C~ -20 °C. (Low temperature limit: medium low temperature is -10 °C~ -20 °C.)
- It can be used to control constant temperature of super cooling and saturated solution.
- Using special material shaft seal circulation pump.
- Using SUS 304/316 plate type heat exchanger to improve heat exchange efficiency.
- Using imported parts to enhance reliability.
- It is with low temperature refrigeration circuit to protect design.

規格表 CLT SERIES SPECIFICATION

型式 Model		CLT-04	CLT-08	CLT-12	CLT-24	CLT-36
冷卻能力Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	19200/24000	28800/36000
	KCAL/HR 50/60Hz	800 / 1000	1600/2000	2400/3000	4800/6000	7200/9000
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	5630/7040	8445/10555
使用範圍 Operative range	室溫 Room temperature	5 °C ~ 45°C				
	液溫 Liquid temperature	- 20°C~ 25°C				
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9 °C ~ - 9.9°C				
	定溫控制 Constant temperature controller	- 20°C~ 25°C				
電源 Power source	V	3Ø AC220V 50/60Hz				
總負荷電流 Total load current	A	15.9	28.8	34.8	64.8	130
泵浦馬力 Pump horsepower	W	450/560	450/560	450/560	530/750	700/1060
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	24/30	24/30	40/50
水箱 Water tank	liter	52	65	65	133	133
進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1" x 1"	1"x1"
外型尺寸 Dimension (D x W x H)	mm	487x654x1389	736x767x1552		1270x890x1788	1350x1020x1788
總重量 Weight	kg	160	200	210	380	430
冷媒 Refrigerant	gas	R404A				

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60HZ) (參考值)

* 特殊規格設計及其它電壓需求請與我司聯絡

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* Standards of capability test data: Inlet temperature: 25°C, Ambient temperature: 35°C, 60HZ. (F.Y.R)

* If you have special specifications or need of other Voltage, please contact us.

* If our company has technical or upgrade requirements, we reserve right to change contents, words, and product specifications without further notice.

半導體製程設備無壓縮機水冷卻機

WATER CHILLER WITHOUT COMPRESSOR FOR SEMICONDUCTOR PROCESSING EQUIPMENT



適用機械種類

- PCB鑽孔機
- 高科技產業薄膜製程冷卻專用
- 各種光電、半導體及太陽能產業設備製程中的冷卻

特性及功能

- 無壓縮機，無需使用冷媒。
- 使用SUS 304 /316板式熱交換器可提升熱交換率，維持水質純淨，不會產生鏽蝕導致水迴路阻塞故障。
- 使用廠務水散熱，達到節能減碳的效果。
- 佔地面積小。

APPLICATION

- PCB drilling machine.
- Cooling for hi-tech industry of thin film processing.
- Optoelectronics, semiconductor and solar energy industry.

FEATURE

- There is no compressor, and doesn't need refrigerant.
- SUS 304 /316 plate type heat exchanger is used to improve heat exchange rate. It could maintain water in pure, and prevent clogging or breakdown from rust.
- Using water tower for cooling, and could achieve effect of energy saving and carbon reduction.
- Space-saving.

規格表 EWW SERIES SPECIFICATION

型式 Model		EWV-04	EWV-08	EWV-12	EWV-24	EWV-36	EWV-60	EWV-90	EWV-120
冷卻能力Cooling capacity	BTU/HR 50/60Hz	3200 / 4000	6400/8000	9600/12000	19200/24000	28800/36000	48000/60000	72000/90000	96000/120000
	KCAL/HR 50/60Hz	800 / 1000	1600/2000	2400/3000	4800/6000	7200/9000	12000/15000	18000/22500	24000/30000
	W 50/60Hz	940 / 1175	1875/2345	2815/3520	5630/7040	8445/10555	14075/17575	21115/26390	28150/35190
使用範圍 Operative range	室溫 Room temperature	5°C~45°C							
	液溫 Liquid temperature	5°C~45°C							
設定範圍 Setting range	差溫控制 Differential temperature controller	- 9.9 °C ~ 9.9°C							
	定溫控制 Constant temperature controller	20°C~40°C							
電源 Power source	V	3Ø AC220V 50/60Hz							
總負荷電流 Total load current	A	3	4	4	4	4	6	7	7
泵浦馬力 Pump horsepower	W	450/560	450/560	450/560	530/750	700/1060	700/1060	700/1060	1080/1620
泵浦吐出量 Pump discharge rate	l/min	16/20	16/20	24/30	24/30	40/50	40/50	72/90	80/100
水箱 Water tank	liter	45	45	45	45	45	45	45	45
進出口管徑 Inlet and outlet pipe-diameter	inch	3/4"x3/4"	3/4"x3/4"	3/4"x3/4"	3/4"x3/4"	3/4"x3/4"	1"x1"	1"x1"	1"x1"
外型尺寸 Dimension (D x W x H)	mm	470x508x817						555x660x820	
總重量 Weight	kg	65	68	68	69	72	80	88	96

* 能力測試數據標準點(進口溫度25°C、環境溫度35°C、60HZ) (參考值)
 * Standards of capability test data: Inlet temperature: 25°C, Ambient temperature: 35°C, 60HZ. (F.Y.R)
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工業用冷氣機系列

INDUSTRIAL AND AIR CONDITIONER SERIES

冷凍式空氣乾燥機系列

REFRIGERATION AIR DRYER SERIES

Example of model 範例機型 CA-12S

冷卻能力 (X1000BTU/HR) Cooling Capacity

CA

12

S

智慧型溫度控制

Intelligent temperature control

CA

電控箱設備專用冷氣機

AIR CONDITIONER FOR ELECTRICAL CONTROL PANEL

TE

致冷晶片式電控箱冷氣機

THERMOELECTRIC MODULE AIR CONDITIONER
FOR ELECTRICAL CONTROL PANEL

CAM

工廠專用移動式冷氣機

MOVING AIR CONDITIONER FOR FACTORY

CWAE

移動式冰水系統冷氣機

MOVING AIR CONDITIONER WITH CHILLER

CAD

冷凍式空氣乾燥機

REFRIGERATION AIR DRYER



電控箱設備專用冷氣機

AIR CONDITIONER FOR ELECTRICAL CONTROL PANEL



Scan Photo AR Experience

適用機械種類

- 基地台機櫃箱
- 各種產業機械設備之電控箱

特性及功能

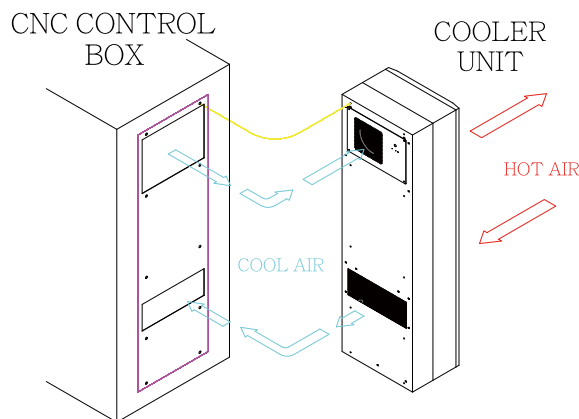
- 防止塵埃、油霧、濕氣進入箱體內部。
- 智慧型溫度控制器精度 $\pm 1^{\circ}\text{C}$ ，可保持電控箱恆溫，控制熱源並提高電子元件壽命。
- 耐高溫型設計，適用環境溫度 $40\sim 45^{\circ}\text{C}$ （超過 45°C 可客製化）。
- 採用環保冷媒，不汙染環境。

APPLICATION

- Electrical control panel for base station.
- Industries with electrical control panel requirement.

FEATURE

- It is prevented dust, oil mist and humidity from entering into electrical control panels.
- Intelligent temperature control with precision is $\pm 1^{\circ}\text{C}$. Components of electrical control panel are controlled heat source and extended life.
- It can be withstood high ambient temperature of $40^{\circ}\text{C}\sim 45^{\circ}\text{C}$. (It can be customized when temperature over 45°C .)
- Filling environmental protection refrigerant, without pollution.



規格表 CA SERIES SPECIFICATION

型式 Model		CA-01S	CA-02S	CA-03S	CA-04S	CA-06S	CA-08S	CA-12S	CA-24S
冷卻能力Cooling capacity	BTU/HR 50/60Hz	800/1000	1600/2000	2400/3000	3200 / 4000	4800/6000	6400/8000	9600/12000	19200/24000
	KCAL/HR 50/60Hz	200/250	400/500	600/750	800 / 1000	1200/1500	1600/2000	2400/3000	4800/6000
	W 50/60Hz	235/295	470/585	705/880	940 / 1175	1405/1760	1875/2345	2815/3520	5630/7040
使用範圍Operative range	室溫Room temperature	$5^{\circ}\text{C}\sim 40^{\circ}\text{C}$							
設定範圍 Setting range	定溫控制 Constant temperature controller	$25^{\circ}\text{C}\sim 30^{\circ}\text{C}$							
電源 Power source	V	1Ø AC220V 50/60Hz							3Ø AC220V 50/60Hz
總負荷電流 Total load current	A	2.5	3	3.5	4	7	7	8	10
風扇電力 Fan rated power	W	72	108	108	144	242	242	312	300
外型尺寸 Dimension(DxWxH)	mm	282x221x476	365x263x660	365x263x661	419x264x778	417x380x735	417x380x735	466x395x925	688x480x1215
總重量 Weight	kg	19	28	33	40	62	62	73	153
冷媒 Refrigerant	gas	R134a/R407C							

* 能力測試數據標準點(室溫 35°C 、控制箱內溫度 35°C) (參考值)

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* Standards of capability test data: Room temperature: 35°C , Electric control panel temperature: 35°C (F.Y.R)

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致冷晶片式電控箱專用冷氣機

THERMOELECTRIC MODULE AIR CONDITIONER FOR ELECTRICAL CONTROL PANEL

TE SERIES



適用機械種類

- 恆溫室儀表電氣控制箱
- 實驗室儀器設備的電控箱

特性及功能

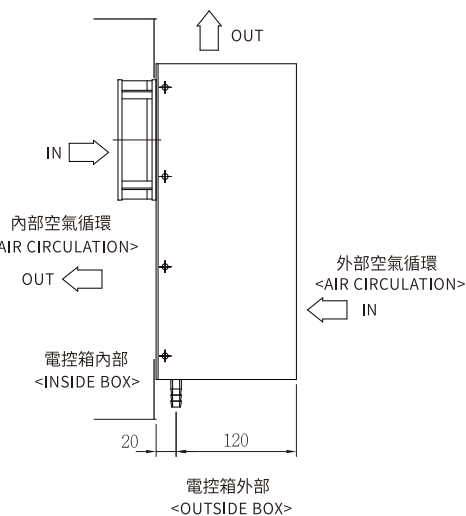
- 使用晶片致冷方式，無壓縮機不需填充冷媒，保養簡易，後續維護成本大幅降低。
- 設計簡化輕巧、安裝容易，無震動，低噪音。
- 具備類空調恆溫功能，保持電控箱電氣元件使用溫度範圍。

APPLICATION

- Constant temperature room instrumentation electrical control panel
- Electric control panel for laboratory instrument and equipment

FEATURE

- It is used thermoelectric module, and there is no compressor and does not need refrigerant filling. It is easy to maintain, and maintenance cost is greatly reduced in the future.
- Simple design, easy to install. No vibration, with low noise.
- It is equipped with a class of air-conditioning thermostat function, which can maintain temperature range of electrical parts of electronic control panels.



規格表 TE SERIES SPECIFICATION

型式 Model		TE-600	TE-1200
冷卻能力 Cooling capacity	BTU/HR 50/60Hz	480/600	960/1200
	KCAL/HR 50/60Hz	120/150	240/300
	W 50/60Hz	140/175	280/350
致冷晶片冷卻能力 TE module capacity	W	510	1020
電源 Power source	V	1Ø AC220V	
總負荷電流 Total load current	A	11	11
使用範圍 Operative range	室溫 Room temperature	35°C ↓	
散熱風扇 Heat Dissipation Fan	W	36	72
冷卻風扇 Cooling fan	W	25	50
散熱量 Heat discharge	W	300	600
溫度控制 Temperature Control	°C	25°C ± 1.5°C	
外型尺寸 Dimension (D x W x H)	mm	206x199x516	350x178x308
總重量 Weight	kg	8	15

* 能力測試數據標準點(室溫35°C、控制箱內溫度35°C) (參考值)

* 特殊規格設計及其它電壓需求請與我司聯絡

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* Standards of capability test data: Room temperature:35°C, Electric control panel temperature:35°C (F.Y.R)

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工廠專用移動式冷氣機

MOVING AIR CONDITIONER FOR FACTORY



適用機械種類

- 加工件模具冷卻
- 受開孔尺寸限制的電控箱或機櫃
- 改善廠房悶熱，局部的工作站冷卻應用

特性及功能

- 冷風出口風量大。
- 不受電控箱尺寸影響，皆能使用。
- 附萬向輪軸，可定點移動，使用彈性，不受限制。
- 使用者可依熱負載溫升的狀況調整需求溫度，並加大散熱面積，可適用較高環境溫度。
- 採用新型高效率環保冷媒，不污染環境。

APPLICATION

- Cooling for workpiece molding.
- Electrical control panel or cabinet which is limited by installing location.
- It is improved stuffy condition in factory, and regional worksation cooling application.

FEATURE

- Outlet of cold air is strong wind.
- Electrical control panel which is no limited by installing location or space.
- It is with caster that could be fixed-point moving. Also it is flexibility and no limited.
- Users can adjust demand temperature according to temperature rising of hot load and increasing heat dissipation area. It is suitable for higher ambient temperature.
- Filling high-efficiency environmental refrigerant, without pollution.

規格表 CAM SERIES SPECIFICATION

型式 Model		CAM-08S	CAM-12S	CAM-24S
冷卻能力 Cooling capacity	BTU/HR 50/60Hz	6400/8000	9600/12000	19200/24000
	KCAL/HR 50/60Hz	1600/2000	2400/3000	4800/6000
	W 50/60HZ	1875/2345	2815/3520	5630/7040
使用範圍 Operative range	室溫 Room temperature	10°C~40°C		
設定範圍 Setting range	定溫控制 Constant temperature controller	25°C~30°C		
電源 Power source	V	1Ø AC220V 50/60Hz		3Ø AC220V 50/60Hz
總負荷電流 Total load current	A	5	6	8
外型尺寸 Dimension (DxWxH)	mm	530x315x986	530x315x986	689x484x1520
總重量 Weight	kg	53	53	125
冷媒 Refrigerant	gas	R134a / R407C		
* 能力測試數據標準點(室溫35°C、控制箱內溫度35°C) (參考值)		* Standards of capability test data: Room temperature:35°C, Electric control panel temperature:35°C (F.Y.R)		
* 特殊規格設計及其它電壓需求請與我司聯絡		* If you have special specifications or need of other Voltage, please contact us.		
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移動式冰水系統冷氣機

MOVING AIR CONDITIONER WITH CHILLER

CWAE SERIES



適用機械種類

- 高風量冷氣需求環境
- 分接式電控箱同步冷卻
- 多聯式電控箱(大箱體)溫控
- 遠距風冷恆溫需求環境(5~10公尺)
- 運用於工作站大風量冷氣需求
- 可連接風管使用,安裝不受電控箱尺寸限制

特性及功能

- 依照客戶溫度需求,搭配相同冷卻能力的水冷機,客戶不需另行安裝冷卻水塔及配管。
- 高揚程且高風量的冷風輸出。
- 冷風箱體可客製化。

APPLICATION

- Air conditioning demand environment is high air volume.
- Tap-type electronic control panels are synchronous cooling.
- It is multi-connected electronic control panels (large box) temperature control.
- It is remote air-cooled constant temperature demand environment (5 to 10 meters.)
- Workstation which has high volume air conditioning requirements.
- It can be connected to air ducts, and installation is not limited by size of electric control panels.

FEATURE

- According to customer's temperature requirement, and collocate the same cooling capacity of water chillers. It let customers don't install extra cooling towers and pipes.
- Cold air output is high lift and high airflow.
- It is customizable cooling cabinet.

規格表 CWAE SERIES SPECIFICATION

型式 Model		CWAE-36	CWAE-48
冰水機冷卻能力 Cooling capacity for chiller	BTU/HR 50/60Hz	28800/36000	38400/48000
	KCAL/HR 50/60Hz	7200/9000	9600/12000
	W 50/60Hz	8445/10555	11260/14080
冷風機冷卻能力 Cooling capacity for air conditioner	BTU/HR 50/60Hz	14400/18000	19200/24000
	KCAL/HR 50/60Hz	3600/4500	4800/6000
	W 50/60Hz	4220/5280	5630/7040
使用範圍 Operative range	室溫 Room temperature	5°C~ 40°C	
	液溫 Liquid temperature		
冰水機設定範圍 Setting range for chiller	定溫控制 Constant temperature controller	5°C~ 40°C	
冷風機設定範圍 Setting range for air conditioner	定溫控制 Constant temperature controller	25°C~ 30°C	
冷風機風量 Air flow for air conditioner	CMM	20/23	
冷風機出風口尺寸 Outlet size for air conditioner	英吋(inch)/公釐 (mm)	4/100	
電源 Power source	V	3Ø AC220V 50/60Hz	
總負荷電流 Total load current	A	28	32
外型尺寸 Dimension (D x W x H)	mm	926x705x1836	1105x705x1936
總重量 Weight	kg	301	345
冷媒 Refrigerant	gas	R407C	

* 能力測試數據標準點(室溫35°C、控制箱內溫度35°C) (參考值)
* Standards of capability test data: Room temperature:35°C, Electric control panel temperature:35°C (F.Y.R)
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冷凍式空氣乾燥機

REFRIGERATION AIR DRYER



適用機械種類

- 醫療機器
- 塗裝、雷射切割
- 工作機械、氣動工具機器

特性及功能

- 運用流速、比重等物理特性，使乾燥空氣與冷凝水完全分離，得到最佳乾燥效果。
- 最先進電流、溫度感應器監控方式，保護最周全。
- 高效率空氣熱交換器，空氣出口不結露，延長工具壽命，防止生鏽。
- 球閥型自動排水器，永不阻塞（選配）。
- 不鏽鋼空氣管路，永不鏽蝕（選配）。
- 兩段式熱交換器，對向逆流，最省能。
- 大管徑結構設計，減少空氣壓降損失。
- 機型規格齊全，適合各種形式空氣壓縮機。

APPLICATION

- Medical machine
- Coating and laser cutting machine
- Mechanical pneumatic tool

FEATURE

- It is separated dry and condensed water to get drying efficiency by flow rate & density.
- It is monitored current and temperature by state-of-the-art sensor monitoring.
- Outlet of air is without condensation by using high efficiency heat exchanger. It could extend life of tools and prevent rusting.
- It will be not clogged by automatic ball valve drainage device (Optional parts).
- Anti-rust by stainless steel air piping (Optional parts).
- Two-section heat exchanger to save energy by counter current flow.
- It is reduced air pressure drop by large diameter design.
- It's suitable for all kinds of air compressors.

規格表 CAD SERIES SPECIFICATION

型式 Model		CAD-05A	CAD-10A	CAD-20A	CAD-30A	CAD-50A	CAD-75A	CAD-100A
適用空氣壓縮機 Air compressor	HP	0 ~ 5	5 ~ 10	10 ~ 20	20 ~ 30	30 ~ 50	50 ~ 75	75 ~ 100
壓縮空氣處理量 Compressed air volume	M ³ /min	0.6 ~ 0.8	1.2 ~ 1.5	2.4 ~ 2.9	3.6 ~ 4.3	6.0 ~ 7.2	9.0 ~ 11	12 ~ 14
壓縮機冷卻能力 Cooling capacity	BTU/HR	2000	3000	4000	6000	12000	18000	24000
空氣進出口管徑 Inlet and outlet pipe-diameter	inch	1/2" x 1/2"	3/4" x 3/4"	1" x 1"	1-1/2" x 1-1/2"	2" x 2"	2" x 2"	2" x 2"
消耗電力 Total consumption	KW	0.31	0.48	0.63	0.91	1.33	2	2.6
外型尺寸 Dimension (D x W x H)	mm	400x600x570	400x650x650	400x750x870	470x950x930	480x1150x1020	650x1100x1350	700x1300x1350
電源 Power source	V	1Ø AC220V 50/60Hz						
入口空氣溫度範圍 Inlet air temperature range	°C	10 ~ 65°C Max. 80°C						
環境溫度範圍 Ambient temperature range	°C	10 ~ 40°C						
使用壓縮空氣壓力 Air pressure	Kg/cm ²	7						
蒸發器 Evaporator		SUS 304 不鏽鋼熱交換器/SUS 304 heat exchanger						
自動排水器 Auto drain device		浮球式 Float ball						
冷媒 Refrigerant	gas	R134a/R407C						

* 特殊規格設計及其它電壓需求請與我司聯絡

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電控箱專用熱交換器系列

ELECTRICAL CONTROL PANEL
HEAT EXCHANGER SERIES

Example of model 範例機型 EA-5AR

熱交換量 (X100 W) Quantity Of Heat Exchange Capacity

EA

5

AR 掛內 Internal Type
AF 掛外 External Type

EA 壁掛式電控箱專用熱交換器
HEAT PIPE HEAT EXCHANGER (SIDE MOUNT)

EC 天井式電控箱專用熱交換器
HEAT PIPE HEAT EXCHANGER (TOP MOUNT)

EWA 電氣箱專用水冷式冷氣機
WATER-COOLED AIR CONDITIONER



天井式/壁掛式電控箱專用熱交換器



HEAT PIPE HEAT EXCHANGER (TOP MOUNT /SIDE MOUNT)



適用機械種類

- CNC車床
- CNC儀器箱
- CNC線切割機
- CNC專用機械
- 基地台電控箱
- CNC龍門磨床、銑床
- CNC綜合立、臥式加工中心機

特性及功能

- 高效率熱交換器採用密閉型設計，內外空氣不產生對流。
- 防止塵埃、油氣、水氣進入箱體內部。
- 熱管式熱交換器是一種節約能源且效率高的傳熱導體，約為銅的1600倍，安全性高。
- 簡化輕巧之設計不佔空間，安裝容易，保養簡單。
- 部分機種使用符合RoHS輕量化外殼設計，整體外型更具工業美學風格。

APPLICATION

- CNC lathe
- CNC instrument box
- CNC wire cutting machine
- CNC special made machine
- Electrical control panel for base station
- CNC double column grinding and milling machine
- CNC vertical & horizontal machine center

FEATURE

- Handy and efficient heat exchanger. Closed design could be ensured no exchange of internal and ambient air.
- It is prevented dust, oil and moisture from getting into electrical control panel.
- Heat pipe heat exchanger is an energy saving and high-efficiency. It is heat conductor. Heat conductivity is 1,600 times of copper and it is safety.
- Easy to install with simple design, and it is maintained easily.
- Some models are used RoHS lightweight casing design, and overall appearance is more industrial aesthetic style.

規格表 EC/EA SERIES SPECIFICATION

天井式電控箱專用熱交換器 HEAT PIPE HEAT EXCHANGER (TOP MOUNT)

型式 Model		EC-03A		EC-05A		EC-07A		EC-10A	
熱交換量 Heat exchange capacity	W	300		500		700		1000	
散熱能力 Heat dissipation capacity	W/°C	15		25		35		50	
使用範圍 Operative range	室溫Room temperture	35°C ↓							
電源 Power source	V	110V	220V	110V	220V	110V	220V	110V	220V
總負荷電流 Total load current	A	0.8	0.4	0.8	0.4	0.8	0.4	1.6	0.8
風扇電力 Fan rated power	W	72	72	72	72	72	72	144	144
外型尺寸 Dimension (D x W x H)	mm	260x165x377		304x175x392		305x200x413		414x200x456	
總重量 Weight	kg	8		9		10		21	

* 能力測試數據標準點(室溫35°C、控制箱內溫度35°C)(參考值)

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* Standards of capability test data: Room temperature:35°C, Electric control panel temperature:35°C (F.Y.R)

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壁掛式電控箱專用熱交換器 HEAT PIPE HEAT EXCHANGER (SIDE MOUNT)

型式 Model		EA-01A		EA-02A		EA-03A		EA-04A		EA-05A		EA-06A		EA-07A		EA-10A		EA-14A	
熱交換量 Heat exchange capacity	W	100		200		300		400		500		600		700		1000		1400	
散熱能力 Heat dissipation capacity	W/°C	5		10		15		20		25		30		35		50		55	
使用範圍 Operative range	室溫 Room temperature	35°C ↓																	
電源 Power source	V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V
總負荷電流 Total load current	A	0.4	0.2	0.4	0.2	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	0.8	0.4	1.6	0.8	1.6	0.8
風扇電力 Fan rated power	W	50	50	50	50	72	72	72	72	72	72	72	72	72	72	144	144	144	144
外型尺寸 Dimension (D x W x H)	mm	70x250x480		65x250x577		82x250x780		90x225x655		91x295x780		90x340x655		100x295x858		125x415x940		120x440x970	
總重量 Weight	kg	6		6		9		9		11		11		13		20		22	

* 能力測試數據標準點(室溫35°C、控制箱內溫度35°C)(參考值)

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電氣箱專用水冷式冷氣機

WATER-COOLED AIR CONDITIONER

EWA SERIES



適用機械種類

- 基地台機櫃箱
- 各種產業機械設備之電控箱

特性及功能

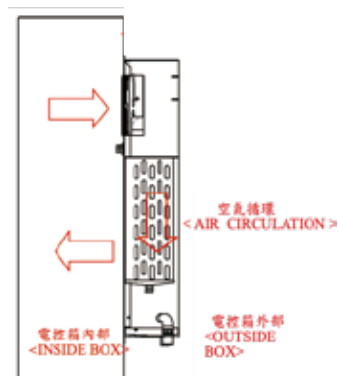
- 機器簡化輕巧、安裝容易、低噪音。
- 使用水冷式製冷，不需補充冷媒。
- 不受高溫環境影響，仍可正常運作。
- 利用廠務水或冰水機循環水二次利用，達到節能減碳效果。

APPLICATION

- Electrical control panel for base station
- Industries with electrical control panel requirement

FEATURE

- It is easy to install. Simple design with low noise.
- It is water type cooling, and does not need refrigerant refilling.
- It can be withstood high ambient temperature to run normally.
- It is saved energy and reduced carbon by using plant cooling water(P.C.W)/cooling tower or water chiller recycled water.



規格表 EWA SERIES SPECIFICATION

型式 Model		EWA-02		EWA-07		EWA-10		EWA-20	
冷卻液體需求流量 Cooling liquid flow rate	l/min	4		4		8		8	
流體壓力範圍 Liquid pressure range	bar	0.2-10							
熱交換量 Heat exchange capacity	W	200		700		1000		2000	
使用範圍 Operative range	室溫Room temperture	40℃ ↓							
電源 Power source	V	1Ø AC 220V 50/60Hz							
總負荷電流 Total load current	A	0.4	0.2	0.4	0.2	0.8	0.4	0.8	0.4
風扇功率 Fan rated power	W	36		36		72		72	
外型尺寸 Dimension (D x W x H)	mm	288x140x527		325x140x670		415x140x730		440x170x800	
總重量 Weight	kg	7		11		16		22	
* 能力測試數據標準點(室溫35℃、控制箱內溫度35℃) (參考值)		* Standards of capability test data: Room temperature:35℃, Electric control panel temperature:35℃ (F.Y.R)							
* 特殊規格設計及其它電壓需求請與我司聯絡		* If you have special specifications or need of other Voltage, please contact us.							
* 本公司因技術需求或升級有隨時更改內容、文字、產品規格之權利,變更恕不另行通知		* If our company has technical or upgrade requirements, we reserve right to change contents, words, and product specifications without further notice.							



台灣總公司廠花 - 緬梔
Taiwan head office's flower - Frangipani



公司沿革 Company History

- 1996
 - 創立本公司並以英文的『智慧』-WISDOM意涵命名，成立『威士頓精密工業有限公司』，專門生產及銷售工業用冷卻機。
 - Wexten Precise Industries Limited Company is founded and the meaning of company name is based on English word "WISDOM". We are specialized in manufacturing and selling industrial cooling machines.
- 1999
 - 通過德國萊茵單位驗證通過『ISO 9001』認證並頒發證書。
 - ISO 9001 was certified by TÜV Rhineland and issued the certificate.
- 2003
 - 因應公司規模成長擴大，改制為『威士頓精密工業股份有限公司』，並建立多角化經營團隊。
 - Because scale of company was grown, and company system was changed and renamed Wexten Precise Industries Co., Ltd. It was also established a multi-faceted management team.
- 2004
 - 中國大陸工業用冷卻機市場需求快速成長，於中國大陸江蘇省昆山市成立『昆山波英特精密製冷機械有限公司』，並將使用環保冷媒的工業冷卻機帶入中國市場。
 - 通過德國萊茵認證單位驗證升級通過『ISO 9001:2000版』認證並頒發證書。
 - 創新設計開發『急速冷凍吸盤』新產品，取得多項應用專利技術，並榮獲經濟部智慧財產局國家發明獎創作獎金牌。
 - Demand for industrial cooling machines in China was growing rapidly. Kunshan Point Precision Cooling Machinery Co. Ltd. was established in Kunshan, Jiangsu Province, and brought industrial coolers with environmentally friendly refrigerant to Chinese market.
 - ISO 9001:2000 was certified and upgraded by TÜV Rhineland, and issued the certificate.
 - There was innovative design and development of new product "Rapid Freezing Suction Pad". It was obtained many application patents and won gold medal in the National Invention Award of Intellectual Property Office, Ministry of Economic Affairs.
- 2005
 - 落實產業需求，進行產業技術與產品之創新研究，通過經濟部『企業創新研發計畫(SBIR)』專案補助。
 - It was implement industrial needs and conducted innovative research on industrial technologies and products through the Ministry of Economic Affairs' "Small Business Innovation Research (SBIR)" project grant.
- 2008
 - 威士頓『高精度變頻工業冷卻機』系列，榮獲『第16屆台灣精品獎』，此為業界首次獲得台灣精品獎殊榮，為台灣冷卻機業界開啟新的紀元。
 - 以優質中小企業的經營成效，獲頒台中市政府優秀中小企業『金手獎』殊榮。
 - Wexten's "High Precision Inverter Industrial Cooler" series were won the "16th Taiwan Excellence Award". It is the first time for industry to win the Taiwan Excellence Award, and opening a new era for cooling machine industry in Taiwan.
 - We were awarded Taichung City Government's Outstanding Small & Medium Enterprises "Golden Hand Award" for quality Small & Medium Enterprises business performance.
- 2009
 - 持續創新研究發展『高精度變頻式冷卻機』系列，並提升技術及增強競爭力，榮獲經濟部『第16屆經濟部中小企業創新研究獎』殊榮。
 - It was continued to innovate and develop "High Precision Inverter Cooler" series, and enhanced technology and competitiveness. Also we won "The 16th Taiwan SMEs Innovation Award" from Ministry of Economic Affairs.
- 2011
 - 高精度變頻式油溫冷卻機以簡約高雅的新式工業風格設計並搭配威士頓特有的恆溫技術，榮獲經濟部『金典設計』肯定殊榮。
 - 鑑於『人才養成是企業永續發展的關鍵』，威士頓長期投資公司人員進行教育訓練，獲頒勞委會『人才發展品質管理系統(TTQS)』評核-銅牌。
 - High precision inverter oil cooler is designed in a simple and elegant new industrial style with Wexten's unique thermostatic technology. It was awarded "Golden Design" by the Ministry of Economic Affairs.
 - In view of fact that "Human resource development is the key to sustainable development". Wexten has invested in education and training of company's staff for a long time, and was awarded Bronze Medal from "Talent Quality-management System (TTQS)" by Council of Labor Affairs.



- 2012
- 因應全球環保意識抬頭，威士頓將『高精度DC綠能變頻工業冷卻機』使用物料更加環保化，為地球的永續發展提供積極貢獻，獲得第『20屆台灣精品獎』殊榮。
 - In response to rising awareness of global environmental protection, Wexten has made "High Precision DC Green Energy Inverter Industrial Cooler" which was used more environmentally friendly materials to contribute positively and be sustainable development of the earth. It was won the 「20th Taiwan Excellence Award」.
- 2013
- 通過德國萊茵認證單位驗證升級通過『ISO 9001:2008版』認證並頒發證書。
 - 全系列產品通過德國萊茵CE認證(版本:2006/95/EC)及頒發證書。
 - ISO 9001:2008 was certified and upgraded by TÜV Rhineland, and issued the certificate.
 - Whole series of products had passed by TÜV Rhineland CE certification (version: 2006/95/EC) and issued certificate.
- 2014
- 落實產業人才培育，與勞動部配合進行『產學訓練合作計畫』實行。
 - 人員教育訓練成果獲得政府肯定，厚植人力資本，提供完善職涯發展，再度獲頒勞委會『人才發展品質管理系統(TTQS)』評核-銅牌。
 - It was implemented "Industry-Academia Training Cooperation Program" in cooperation with the Ministry of Labor to cultivate industrial talents.
 - Results of staff education and training had been recognized by government, and company had been awarded Bronze Medal from "Talent Quality-Management System (TTQS)" by the Council of Labor Affairs again.
- 2015
- 提升高精度綠能變頻冷卻機應用市場，採用DC變頻式壓縮機，可減少33%能源消耗，為客戶節省大筆電費，此系列機種通過德國萊茵認證單位『EMC電磁相容』驗證。
 - This series of DC INVERTER CHILLER had passed the 「EMC Electromagnetic Compatibility」 certification by TÜV Rhineland.
- 2016
- 通過德國萊茵認證單位驗證升級通過『ISO 9001:2015版』認證並頒發證書。
 - ISO 9001:2015 was certified and upgraded by TÜV Rhineland, and issued the certificate.
- 2018
- 強化中國大陸市場供需服務，於江蘇省蘇州市相城經濟開發區成立『威士頓精密制冷機械(中國)有限公司』，中國蘇州新廠產能大躍進朝全面自動化生產之路前進，威士頓邁向智慧工廠，揭開兩岸營運新局。
 - 全系列機種通過德國萊茵認證單位升級CE認證(版本:2014/35/EU)及頒發證書。
 - Wexten Precise Cooling Machinery (China) Co., LTD was established in Xiangcheng Economic Development Zone, Suzhou, Jiangsu Province, China. New factory in Suzhou was making a great leap forward in production capacity towards full automation.
 - Whole series of products had been upgraded to CE certification by TÜV Rhineland CE certification (version: 2014/35/EU) and issued certificate.
- 2019
- 推出新機型單機雙溫控雙液體冷卻機，一機抵兩機替客戶解決溫升問題，並以特殊迴路結構設計取得2018年台灣複數迴路冷卻機系統專利，2019年取得中國大陸多迴路冷卻系統專利。
 - It was introduced a new model of single-unit dual-temperature-controlled dual-liquid cooler, and one machine for two machines could solve temperature rising problem for customers. It was obtained a patent for plural circuit cooling system in Taiwan from 2018. Patent for multi-circuit cooling system in China in 2019 with a special circuit structure design.
- 2020
- 單機雙溫控雙液體冷卻機搭載AIoT功能，提供雲端冷卻機機況監控，即時了解冷卻機運轉狀況，進一步提升至工業4.0的目標，再創產業新價值。
 - Single-unit dual-temperature-controlled dual-liquid cooler is with AIoT function, and providing condition monitoring of cloud cooling machine. It is real-time understanding of cooling machine operation status, further enhancing to goal of Industry 4.0 and creating new value for industry.
- 2021
- 威士頓特地與清華大學及科技部擴增實境互動技術產學聯盟進行工業用冷卻機全景虛擬展間與AR/VR互動展示產學合作，進行全球行銷業務推廣，創造出許多前所未有的創新應用。
 - Wexten has partnered with Tsinghua University and Ministry of Science and Technology. It is augmented Reality Interactive Technology Industry Consortium to develop a panoramic virtual exhibition room for industrial coolers and AR/VR interactive displays for global marketing and business promotion. Also it is creating many innovative applications never before seen.



蘇州公司廠花 - 丹桂
Suzhou office's flower - Orange osmanthus

