



嘉毅冷凍空調設備有限公司
EVER COOL REFRIGERATING &
AIR CONDITIONING CO. LTD.

公司介紹 Company Profile

“嘉毅冷凍空調設備公司”於1998年正式成立，成立初期的主要業務是香港和澳門代理空調產品及冷凍零件貿易生意，由於中國市場龐大及發展迅速，1999年正式成立“東莞嘉毅設備有限公司”開始發展中國業務並提供冷氣設備相關產品貿易及承接空調設備相關工程。同年獲得“NICOTRA — 尼科達”風機港澳地區代理及“BELIMO — 博力謀”控制產品華南及港澳地區特約經銷商。2000年成立“香港駿科空調技術發展有限公司”，及後於東莞設立空調設備生產廠房，成立“東莞駿科空調製造有限公司”及創立自家品牌“TECH FREE”，主要生產空氣處理機組，盤管，冷凝器，抽排風機等空調產品。2006年嘉毅冷凍空調設備公司正式註冊為“嘉毅冷凍空調設備有限公司”，同年遷入沙田小瀝源自置辦公室。2008年東莞駿科空調製造有限公司二期廠房正式動工，以應付日漸龐大的生產需要及客戶要求。二期廠房設有一所國家認可的綜合性能實驗室。同年獲板式熱交換產品生產商“SWEP — 舒瑞普”授權為港澳代理。2016年，正式成為美國通風產品“BROAN — 百朗”港澳地區總代理”。

Ever Cool Refrigerating & Air Conditioning Co.,Ltd. was founded in 1998 in Hong Kong, to trade HVAC and refrigerating products in Hong Kong and Macau.

In 1999, Donguan Ever Cool Equipment Co.,Ltd. was founded in China to undertake HVAC system installation and trading of HVAC products. In the same year Ever Cool Hong Kong was appointed the authorized dealer of “NICOTRA” and “BELIMO” for the Hong Kong and Macau region.

In 2000, Hong Kong Tech Free Air Conditioning Technology Development Ltd and Donguan Tech Free Air Conditioning Mfy Ltd. were established and a factory set up for the manufacturing of TECH FREE Air handling Units and Coils. 2nd phase manufacturing plant was built in 2008. The factory equipped with an certified Integrated Performance Test Laboratory. In the same year, we were appointed as sole distributor of “SWEP”. In 2016, we were authorized as sole distributor of “BROAN” in Hong Kong & Macau.



至於市場拓展方向，嘉毅早於2007年已向海外地方發展，產品質量得到廣泛認同。近年更於孟加拉，新加坡及泰國設立分公司，把優質空調產品以及香港品質印象，繼續發揚開去。



EVER COOL started exploring overseas market since 2007, quality and services have been widely accepted by customers. We setup branch offices in Bangladesh, Singapore and Thailand in the recent years to keep carrying “HONG KONG QUALITY” toward worldwide.



Better Air Better Life 創建節能 淨化空調 提供舒適 潔淨空間



Environment 環境 Sustainability 持續發展

Energy Saving 節能

Greater Bay Area
Hong Kong Brand

Manufactured in China
International Quality

Indoor Air Quality 室內空氣質數

公司發展里程 Company Milestones



我們的理念 Our Mission & Vision



嘉毅成立至今一直以香港澳門地區為中心，致力於推廣優質空調產品。當中TECHFREE空氣處理機更是一直不斷改革求進，提升質量及技術要求，滿足業界及市場上的改變。

早於2009年已開始嘉毅已注意到風櫃節能趨勢，開始跟廠商加緊研究無刷電機(EC)用於空氣處理機的應用。此外，空氣質素以及鮮風處理更是一直以來的發展重點方向，例如空氣過濾，抑菌方法，鮮風除濕到熱回收技術等多元化改善空氣處理。到近年已成功生產出高質量鋁合金結構，除了讓市場增加了選擇，同時也配合全球可持續發展方向。

作為北美洲新風處理的領導品牌，百朗BROAN的引入，更加是全方位的強化了嘉毅於空氣處理方案上完整性，不單只是以往的中央系統，到家居，學校，老人中心等都可以提供更簡單直接的鮮風處理方法。

EVER COOL was founded to provide not just a product but a solution. We continuously improve using technology. Research and development is our core strength.

To produce high quality, energy saving HVAC products to improve peoples' lives as well as sustainability.

Introducing BROAN to Hong Kong, No.1 ventilation brand in North America, enhanced the product line of EVERCOOL clean air treatment solution to the fullest. From central system, to domestic sectors, schools, elderly homes etc. are well covered.



參與活動 Our Activities

嘉毅一直積極參與業界發展跟業界互動交流，與時俱進。透過舉辦不同形式的活動，例如技術研討，工廠參觀，產品測試，業界展覽等，除了讓工程師們多了解空調技術，生產流程，工藝細節外，更希望推動節能環保空調，讓生活舒適之餘，也為保護地球環境盡一份力。

EVER COOL actively participates and keeps pace with the HVAC industry by various activities including technical seminars, factory visits, product testing, exhibitions and membership in associations.

It offers an excellent channel to share experience, ideas, knowledge of manufacturing process, technologies and most important "Green Solutions".



代理品牌 Agent of



BROAN — 美國百朗成立於1932年，是北美洲最規模的家用通風產品生產商，並擁有全球最大的測試及研發中心，是家用通風產品市場上的領導者。

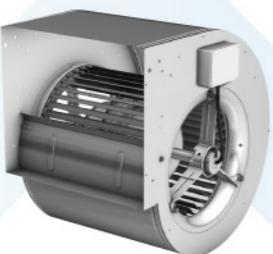
Broan US was founded in 1932, is the most scale and the largest manufacturer of residential ventilation products in North America.

BROAN owns the world's largest testing and Research Center, is a leader in home ventilation products on the market.



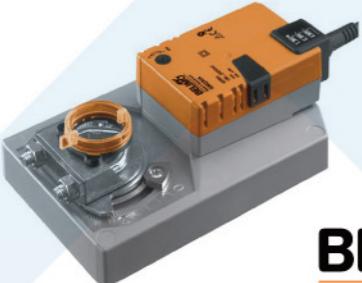
SWEP — 世界知名的焊式換熱器及相關產品供應商之一，焊式換熱器是迄今效率最高的傳熱方式。主要應用於空調，供暖，工業製造等領域。

World famous supplier of Compact Brazed Heat Exchangers (BPHE) and related products, Compact Brazed Heat Exchangers (BPHE) is by far the most efficient way in heat transfer. Mainly used in air conditioning, heating, industrial manufacturing etc.



NICOTRA GEBHARDT — 中低壓工業風機領域上的領先者，產品廣泛應用於采暖，通風，空調，製冷，消防等不同領域。

Pioneer and leader in Medium Low pressure industrial fan, products are widely used for heating, ventilation, air-conditioning, refrigeration, and fire engineering.



BELIMO — 成立於1975年的瑞士公司，應用在加熱，通風及空調等領域的最佳品質的風門和控制閥供應商。

Founded in 1975, Switzerland Company, one of the best supplier in quality damper and control valve, products are widely used in field of heating, ventilation, and air conditioning.

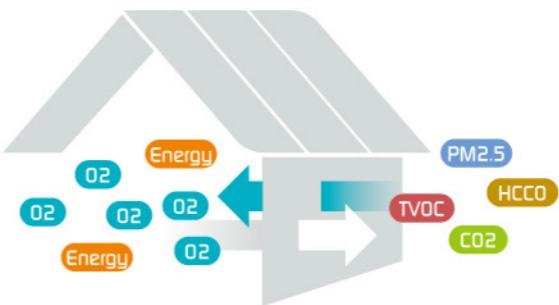


NANO G — 納米銀，光觸媒技術供應商，殺菌塗層及室內環境質素的專家。

Nano-Silver, Photocatalyst technology suppliers, expert in Sanitizing coating and indoor environmental quality.



美國百朗成立於1932年，是北美洲是最規模的家用通風產品生產商。Founded in 1932, Broan is a global leader in home air quality and is the #1 choice for air quality solutions in America.



DP - 靜音管道風機
Low Noise In line Duct Ventilator

Simple
簡單

Easy Install and Maintenance

Durable
耐用

Spangle Free Galvanized Casing, better Anti Corrosion

Quiet
寧靜

Lowest Noise Level to 16dB

Flexible
彈性

Horizontal or Vertical Mount

Clean
潔淨

Integrated PM 2.5 filter



WE-5 Fresh Air
Bi-Directional Purifier
鮮風淨化對流機



KJ310 G-A02
Air Purifier
空氣淨化機



引導潔淨新鮮空氣
隔絕室外污染空氣



Pentona
Air Purifier
空氣淨化機



X4 & X8 Fresh Air
Bi-Directional Purifier
鮮風淨化對流機

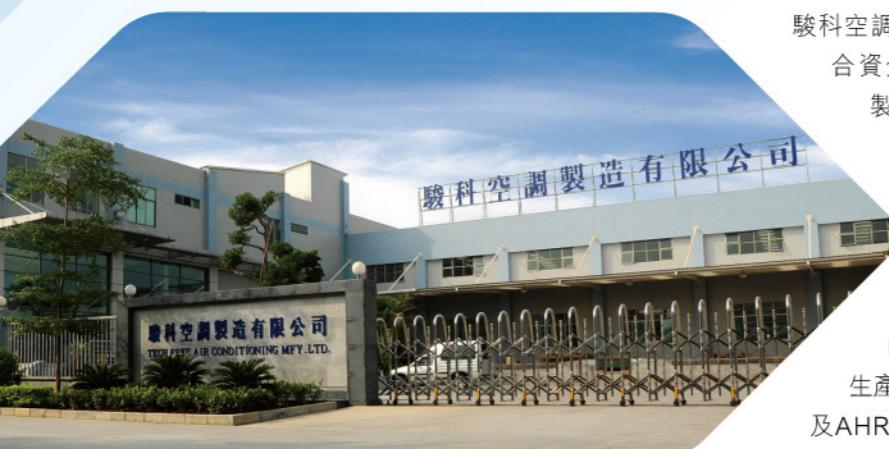
澳門摩珀斯酒店
Morpheus Hotel, COD, Macau

蒼朗
The Met blossom





駿科空調製造有限公司 TECH FREE Air Conditioning Mfy Ltd



駿科空調製造有限公司成立於2001年，為一間中港合資企業。具有超過二十年專業設計和生產空調製冷設備的豐富經驗，“TECHFREE”產品除遍佈中國，香港，澳門外，近年更成功拓展到海外不同地區，如新加坡，孟加拉及美國等地。為配合公司擴張及發展需要，全資擁有一，二及三期廠房，生產園區佔地超過250,000平方呎，更於二期廠房設有國家認可的空調綜合性能實驗室，公司已取得國家發出的生產許可證，ISO9001品質認可EN1886, VDI 6022以及AHRI等國際認證。公司擁有一支專業開發團隊，累積多年經驗，無論在系統方案，產品設計，自動控制和軟件開發上均竭誠為客戶提供全方位優質服務。就節約能源愛護環境而言，公司早年前已針對此方向大力研發和生產“綠色”空調產品。例如雙冷源熱回收機組，新風除濕機組，熱管等等，並已廣泛使用於工業，商業，醫院，酒店等不同場所，為環保出一分力。駿科空調一直以來在技術上不斷革新求進，以求達至精密，穩定，耐用及節能四大原則。

Tech Free Air Conditioning Mfy Ltd. is a Hong Kong – China joint venture company founded in 2001. With more than 20 years experience in design and manufacturing HVAC product. TECH FREE products are widely used in government buildings, hospitals, pharmaceuticals, factories and exported overseas. We are a ISO 9001 accredited company, equipped with a national certified Integrated Performance Laboratory and manufacturing plant covering a total area of 250,000 sqf. Our products are certified by EN1886, VDI 6022 and AHRI standard.

Our professional engineering team accumulated years of experience providing services from system design, product R&D, control automation to software programming. We have developed “Green” products such as Dual Cooling Heat Recovery Unit, Fresh Air Dehumidifier, Heat Pipe and many more. Foreseeing the requirements of stringent energy efficiency and IAQ requirements, we have collaborated with EC motor, air filtration, air sanitizing and “green” material manufacturers to give more choices to the market, supporting sustainability.

“TECH FREE” keeps pace on technology evolution to achieve Precise, Stable, Durable & Energy Save.

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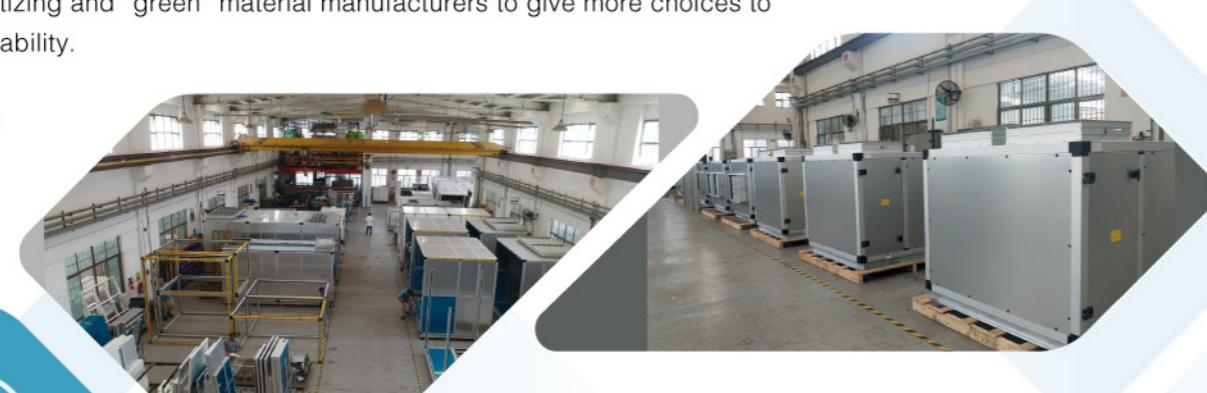
工廠內配置了一所國家認可綜合性能實驗室，除了可以檢測生產機組的機械性能，效率及能源效益外，更重要是提供了研發及認証支持。冷媒熱回收，熱管，干冷器，風牆產品等產品從研究，開發，測試，都是在自主條件下完成。

有別於一般軟件選型，駿科空調一直利用實驗室對軟件選型進行反覆測試，比較及修正，從中建立了一套完全屬於駿科空調的性能數據庫。減少誤差之餘更確保機組出廠實際性能附合設計條件，提供工廠測試驗收(FAT)的良好條件。

Our factory is equipped with a National Certified Integrated Laboratory to provide testing of mechanical properties, unit capacity, energy effectiveness and critical support on product research and development. Comparing the updated latest AHU and Coil selection software with the Laboratory Data continuous testing and comparison is a unique advantage of TECH FREE's products. It builds up TECH FREE database which can eliminate deviation in software selection, meeting the design criteria with actual unit output and creating environment for Factory Acceptance Test (FAT).



- JB/T 9066-1999 (Cabinet Type Fan Coil Unit)
- GB/T 14294-2008 (Central-station air handling units)
- GB/T 17758-2010 (Unitary air conditioners)
- GB/T 19413-2010 (Unitary air-conditioners for computer and data processing room)



認証資格 Certification & Accreditation

駿科空調製造有限公司獲取了一系列的認証資格及專利設計，質量及廠房上取得ISO9001質量管理，國家工業產品生產許可證，綜合性能實驗室合格証書。至於產品上，除了合符GB/T國家標準，機組結構也同時獲得了EN1886:2007及AHRI 1350認証。另外工廠亦取得多項設計專利，如正壓門，乾式排水盤及斷冷橋門板等。

工廠自購了一套空氣處理機設計及盤管選型件，配合不同供應商提供的軟件選型，如風機，熱回收輪，除濕輪等，加上實驗室測試數據庫，讓客戶訂制機組不但更準確，也更有效率。

"TECHFREE" obtains a series of quality assurances and design patents. In house AHU and Coil selection software to work with selection program from various suppliers, integrated with Laboratory tested data, significantly more accurate and more efficient on Custom-Built units selection.



AHRI 410

AHRI 1350

AHRI 430



VDI 6022.1

歐標 1886 – 2007
EN 1886 – 2007



ISO 9001 質量認証
ISO 9001 Quality Accreditation



國家工業產品生產許可證
PRODUCTION LICENSE



高技術企業
Advance Tech Enterprise



專利認証
Patent Technology

第三方認證與生產者的質量保証 3rd Party Certifications & Manufacturer Quality Assurance

駿科空調(TECHFREE)作為一間香港品牌的空調設備生產商，靠著對空調行業的熱誠，以及對質量的堅持，20年來一直為香港空調行業提供高質量空調機組以及優良服務。近年，隨著行業不斷進步，

駿科空調已積極引進合符第三方認證，然而在香港的特殊氣候，建築要求，以及中外文化交融的條件下一個全面的工廠測試 (Factory Test) 已經成為生產商質量保證不可或缺的一環。在駿科空調的品質系統下，除了提供標準的証書認證級別 (Classification)，我們還提供到實際測試數據結果 (Test Result)，兩者之間不單可以互相核証 (Verification)，更重要是可以按項目，確保產品表現及質量合符設計要求。

TECHFREE is a Hong Kong Based, Local enterprise manufacturing Air Handling Equipment, serving the industry over 20 years with its quality products and excellent services.

Our products have been tested and complied to 3rd Party Certifications. Due to specific climate condition, construction requirements & specific applications in Hong Kong, a comprehensive Factory Test has become an indispensable part of quality assurance for a manufacturer. We provide test certificate with its classification, as well as real test showing designed verification and validation results, ensuring performance and quality.



Certifications
Actual Testing Results
Verifications

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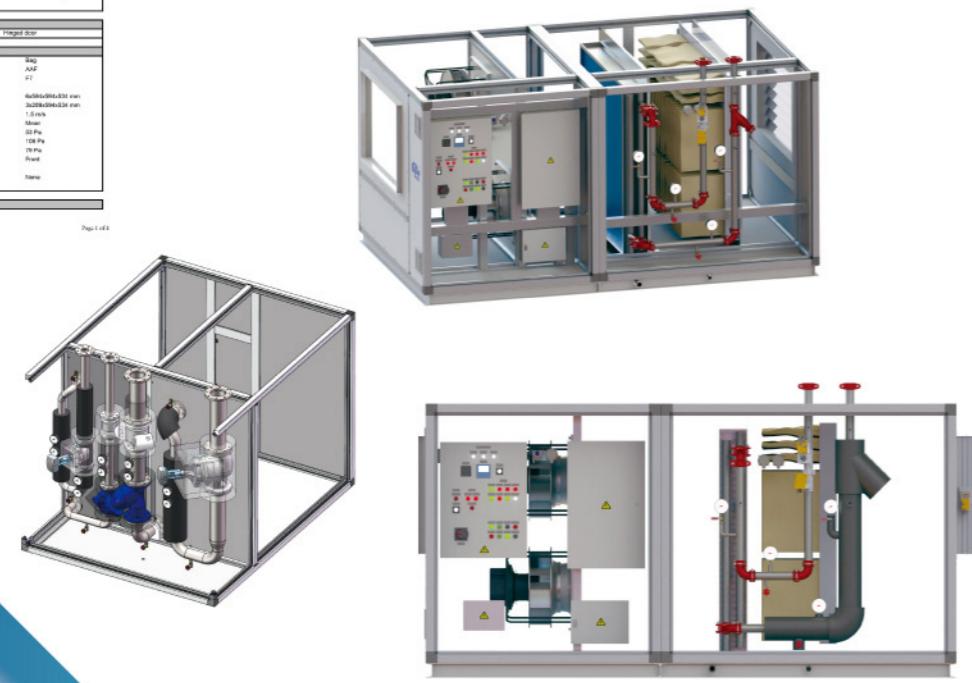
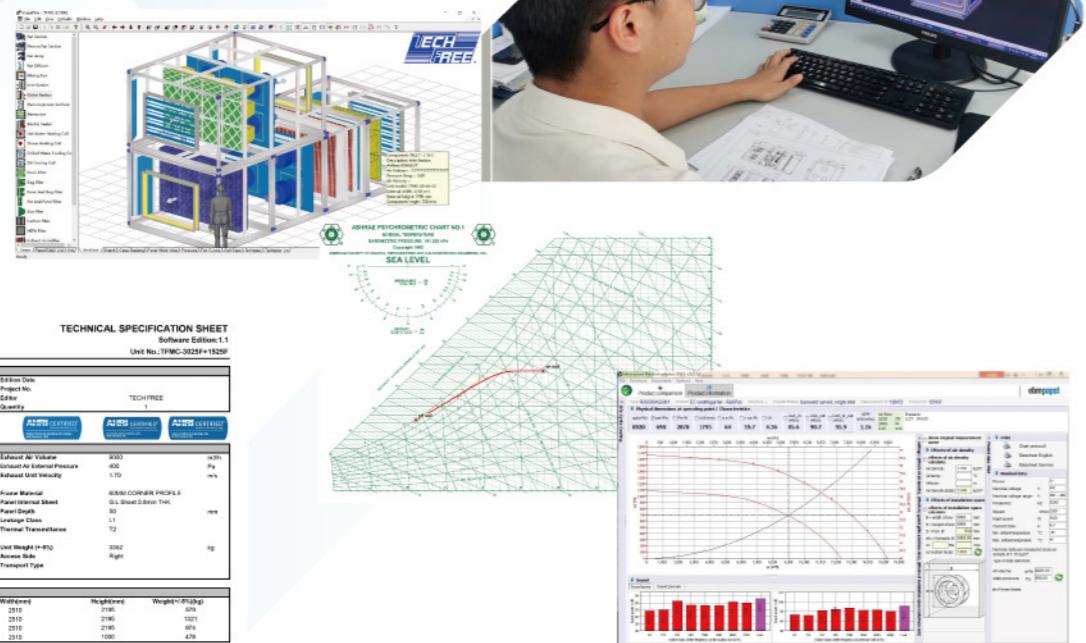
選型軟件 Computer Aid Selection Software

三維模型 / 認証選型軟件 / 實驗室驗證數據庫 / 建築資訊模型

3D modelling / Certified Selection Program /

Laboratory Verified Data Base /

Building Information Modelling



全方位服務 Total Solution

除了注重產品質量，駿科空調一直認為提供的不只是一件產品而是空調系統中一部份，因此售前服務跟售後服務有著同樣重要性。目的希望照顧到不同持份者的需要，例如使用方，設計者，安裝承辦商，維修團隊等。

Apart from quality product, TECH FREE provides Total Solution, from the design, pre and after sales service, supply of equipment, factory acceptance test, training for installers and maintenance team. Meeting the needs of relevant parties.

For Clients 客戶

參與工地現場視察及協調 Site visit for better co-ordination

常備風機等通用配件 Common Model Inventory and Spare Fans keeping

可提供全面工廠實驗室測試 Factory Acceptance Test in Laboratory

有需要可生產樣品機組 Mock Up Unit available upon requested

專門售後服務團隊 After Sales Services Elite

For Installer 安裝承辦商

提供組裝培訓 Factory Assembly Training

現場提供技術支援 Technical Supervision for on site erection units

分批次送貨安排 Partial Delivery according to schedule

快速及彈性處理 Flexible and Fast Response to meet with site progress

分段式運送安裝 Section Delivery

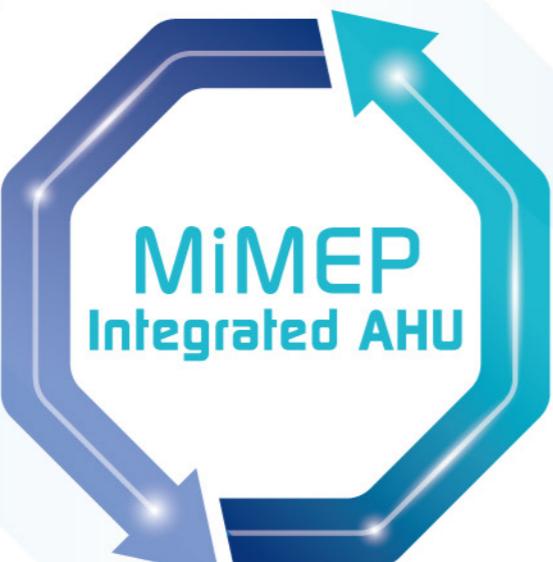


綜合式空氣處理機組 INTEGRATED AIR HANDLING UNIT

應用“機電裝備合成法”將空調系統控制結合於空氣處理機組上，當中包括控制、動力及水系統部份。令外型結構更為完整，讓工地現場施工更快捷有效率。綜合式空氣處理機組需要良好的前期考慮以配合設計及工地安裝，如進出水位置，管路配置，供電安排，以至維修空間等。

Apply “MiMEP - Multi-trade integrated Mechanical, Electrical & Plumbing” - Combining system of Power/ Control Panel and Water Side Accessories on the Air Handling Unit gives it an advantage of “Plug & Play” installation on site.

Integrated AHU requires comprehensive consideration from the design stage to site installation thus minimizing on-site co-ordination.



主要產品 Product Highlights

雙冷源熱回收機組 DUAL SYSTEM HEAT RECOVERY UNIT

在要求對環境控制溫濕度的情況下，空氣的露點溫度是首個極為重要的參數。在空氣處理的過程中，這是關於冷水盤管的設計能否把空氣中的水份達致飽和。但在實際應用上，冷水盤管的效能，還須取決於現場的出入水溫差，冷水機的效能及相關系統設計。所以很多情況下因為冷水供應溫度偏高而導致除濕效果不理想。另一方面，當然可以直接選擇用壓縮機冷媒的低溫來達至除濕功能，但此方案往往對壓縮機的負荷較大，耗能及機組體積也相對較大。

除了露點溫度控制，另一重要參數就是再熱，利用等濕升溫，從而達至除濕效果。以往加熱多使用電加熱，好處是簡單，但耗電及控制亦帶來不少問題。

“駿科”的雙冷源熱回收機組，特別針對現場有冷水供應，而又對環境溫濕度有要求的空調系統而研發，主要利用冷水盤管的效能，輔以壓縮機工作，制冷同時回收冷凝餘熱，加上能量調節配件及軟件編程控制，達至精密溫濕控制，相對以往使用電加熱作補熱而言，除了大大減少能量使用外，更加排除了冷水溫度而影響除濕功能，可有效控制空內環境。雙冷源可同時或獨立運作，靈活適用於不同環境要求。

In many application, poor dehumidification performance is mainly caused by high inlet chilled water temperature. TECH FREE Dual System Heat Recovery Air Handling Unit provide sub-cooling and reheat. Sub-cooling to ensure moisture removal and reheat to control relative humidity.

Reheat is crucial to obtaining desired humidity by sensible heating, heat recovery in the system greatly reduces energy use and allows control of indoor environment in a more effective way.

With the aid of software program control, energy regulating valve and accessories, precise temperature and humidity can be achieved.

Dual System Unit can be operated simultaneously or independently, flexible system with wide range of indoor condition requirements.



主要產品 Product Highlights

熱管機組 HEAT PIPE UNIT

隨著對新風處理要求及節能前題下，針對新風處理的設計漸趨普遍，當中主要包括除濕及預冷，兩者都涉及大量能耗。而熱管的應用正好為此問題帶來了一個不錯的選擇。

分為除濕熱管及熱回收型熱管，憑冷媒蒸發冷凝原理，環境溫差及特有管路設計，無需任何外來耗能，可以從空氣中獲得能量作為預冷或再熱。由其適用於新風處理，節能同時也達到改善空氣質素目的。熱回收式熱管可按設計要求，選擇傳統橫向及新型垂直式放置。

The application of Heat Pipe in Air handling unit is a good choice for fresh air handling. TECH FREE Heat Pipe uses temperature difference of the environment and unique tube circuit design to obtain energy for the removal of moisture, pre-cool and re-heat of air.

Heat Recovery type and Dehumidification type are both ideal for air treatment, especially fresh air without the use of any electrical energy. Traditional horizontal or New vertical configuration is available for Heat Recovery Type.



U Shape Dehumidification Type



Heat Recovery Type - Vertical



EC風機空氣處理機組 Electronically Commutated (EC) Fan AIR HANDLING UNIT

高效能無刷式電機能提升風機效益達20%，而且能縮短傳統皮帶傳動的風機段長度。炬陣型排列能彈性調節系統風量，以至風量冗餘設定，備用設定等電機配置輸入及輸出訊號以及RS485接口，方便控制及擴充連接。

High efficiency brushless EC motor is 20% more energy efficient with a shorter fan section than traditional squirrel motor configuration. Its fan array design allows flexible regulating fan duty, redundancy and standby setup. Built in I/O signals and RS485 connections allows easy control of fan speed and high control extension.



風箱模塊
Fan Cube

鋁面板空氣處理機組 ALUMINUM AIR HANDLING UNIT

鋁板結構自身有良好抗腐蝕特性，不受鍍鋅噴塗因運輸或安裝刮花而銹蝕。而且壽命比一般鍍鋅板高出20年，相對減低因銹蝕而需要的維修，回報亦因而提高。另外鋁板結構比同一鍍鋅板結構機組重量輕接近40%，大大減低運輸成本及建築物負重結構的要求。整體上更合符經濟及環保效益。TECHFREE鋁板結構已經通過EN1886:2007及AHRI 1350結構測試。

Aluminum structure provides excellent corrosion resistance. A durable and sustainable material, it can reduce overall unit weight by as much as 40% thus reducing structural support cost.

TECH FREE Aluminum structure had been tested under EN1886:2007 & AHRI 1350.



潔淨型空氣處理機組 HYGIENIC AIR HANDLING UNIT

針對高潔淨要求，機組內部全為不銹鋼及防銹處理，表面平整光滑及配備排水位置，易於清理不會藏塵藏菌。機組結構已通過VDI 6022.1標準。適合用於醫院，食品工廠及藥廠等。

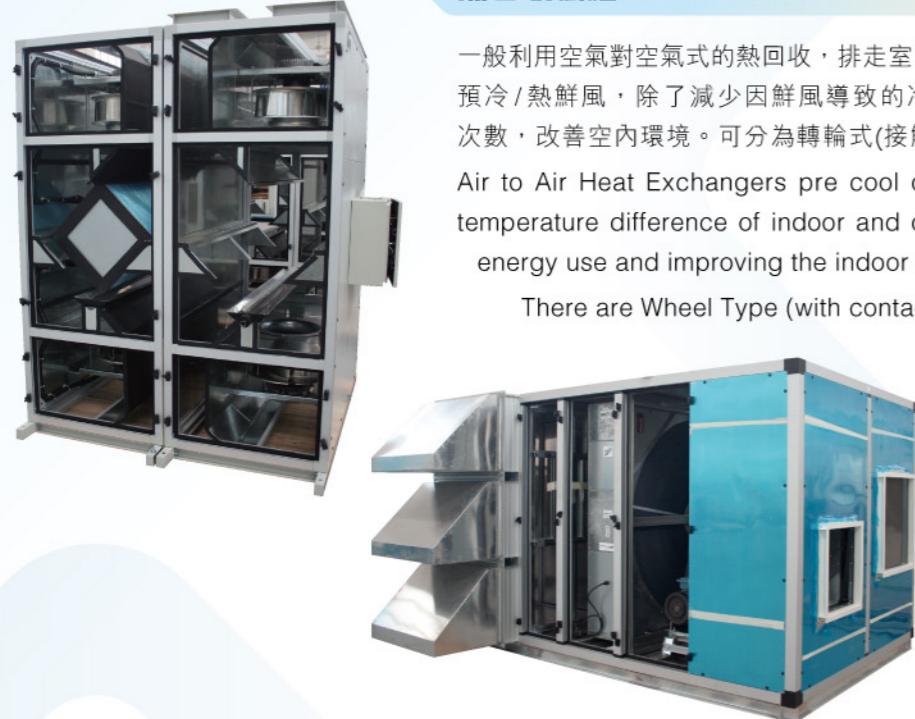
All internal surfaces are made of Stainless Steel and Anti Corrosion treatment, dirt and germs are easily cleaned on smooth and flat surfaces.

Units are certified with VDI 6022.1. Suitable for hygiene environment, such as hospitals, food factories and pharmaceutical plants etc.



主要產品 Product Highlights

熱回收機組 HEAT RECOVERY UNIT



一般利用空氣對空氣式的熱回收，排走室內冷/暖空氣同時利用空內外溫差預冷/熱鮮風，除了減少因鮮風導致的冷熱負荷外，更可有效提升換氣次數，改善空內環境。可分為轉輪式(接觸式)，板式(無接觸式)。

Air to Air Heat Exchangers pre cool or pre heat fresh air using the temperature difference of indoor and outdoor air, reduces heat load, energy use and improving the indoor air quality.

There are Wheel Type (with contact) and plate type (w/o contact)

高風量型風機盤管 HI CAPACITY FAN COIL UNIT 小型空氣處理機組 MINI EC AIR HANDLER

全機使用陽極鋁物料，配合30mm厚度發泡保溫，更耐用而輕身，採用節能環保EC風機，運行工況適時而變，節能最高達40%~50%；送風溫濕度也可根據需要快速調節系統更節能。最大風量2500CFM可接駁長距離的送回風風管，靜壓可達到400PA。超薄機身設計，高度僅450mm，節省安裝空間。4排盤管設計，比一般風機盤管更有效處理新風。適用於商場，中庭，醫院，大堂等。

Constructed with Anodized Aluminum Casing, 30mm PU insulation gives lighter weight and better durability. Variable speed EC fan can save max. 40-50% energy by changing its output subject to actual airflow demand. Max airflow up to 2500 cfm and static pressure 450Pa allows long ductworks or additional filtration applications. Slim size with just 450mm height fits compact ceiling and 4 Rows coil configuration could give better performance on handling fresh air compared to traditional FCU.

Suitable for Malls, Atrium, Hospitals and Lobby etc.



變頻冷媒空氣處理機組 VARIABLE REFRIGERANT FLOW AIR HANDLING UNIT

直膨式空調處理機組配置變頻壓縮機，能夠按實際負荷調節冷量，高效節能。按工作需要可以設計成新風處理，熱泵，熱回收等特別系統。同樣可以分體或一體機型，既實用亦彈性。

Direct Expansion Air Handling Unit equipped with Variable Speed Drive Compressor can regulate system capacity to cooling load demand. Energy efficient, it can be customized to integrate Fresh Air, Heat Pump and Heat Recovery System increasing design flexibility and functionality.



精密空調 PRECISION AIR CONDITIONER

HA系列精密空調以DDC多功能控制組件為中心，配合精密溫濕度傳感器，比例風閥控制，無段調控模塊技術，再加上控制邏輯編程，能有效地對室內環境做出控制。具有制冷，除濕，加濕，制熱回風，比例回風或全鮮風設計。

HA Series Air Conditioning Unit equipped with DDC Control Module as the core component work with precise temperature and humidity sensors, damper control, stepless control module supported by control logic programming can effectively control indoor environment to desired condition. Mode of operation includes Cooling, Dehumidification, Humidification and Heating in return air or fresh air.

工程履歷 Job Reference



鮮風/排風機 Fresh Air Unit/Exhaust Air Unit

TFF系列鮮風及排風機，主要分標準型及豪華型兩種。標準型採用原色鍍鋅鐵，扣板式拼裝而成。豪華型採用鋁合金框架組合式設計，面板為鍍鋅鋼板，表面靜電噴粉，可選擇單面板或雙面板。風機方面全線採用“NICOTRA”或“KRUGER”雙進風離心風機，可選EC風機，可根據客戶風量，風壓要求而選擇。前傾式及後傾式風機，英制尺寸：7" - 20"或公制尺寸：200mm - 900mm。

TFF series fan unit is divided into 2 major categories, Standard and Deluxe. Standard unit comprises of galvanised steel panel while Deluxe one is using aluminum frame with powder coated G.I. panels, single skin or double skin casing available. All blowers are using “NICOTRA” / “KRUGER” DIDW centrifugal type EC fan as option, tailor-made according to various flow and pressure. Size from 7" - 20" or 200mm - 900mm.

回風/鮮風處理機組 AHU/PAU

TFWC系列冷水風櫃，結構使用聚氨酯發泡板，五角複合式鋁框型材及尼龍玻璃纖維。三通組合而成，隔熱效果特佳，完全隔斷“冷橋”現象。防火阻燃等級為UL94V0，安全可靠。PVC膠邊及盒形板面設計，大大增強結構的氣密性，漏風率遠低於0.4 l/s. sqm. 電解板經噴粉處理，能有效地對抗腐蝕及紫外線使板身更為耐用。冷量由3冷噸至110冷噸，外型可選擇吊式，臥式，立式三種，尺寸可跟據現場環境訂做。結構合符EN1886:2007標準。

Air Handling unit TF_C series, Penta post Al framework with double skin PU insulation, unique thermo break structure to eliminate formation of “cold bridge”. Fire Rated Class UL94V0. PVC gasket and cubical design keep air tightness with air leakage rate <0.4l/s.sqm. Powder coated casing enhances the resistant against corrosion and UV. Capacity from 3TR - 110TR. Ceiling (C) / Vertical (P) / Horizontal (H) configurations available. Comply to EN1886:2007.



組合式空氣處理機組 Modular Air Handling Unit

TFMC系列組合式空氣處理機組，特別為應付高要求的室內環境而製作，其組合方式靈活多變及其多功能配置，能滿足不同場所對空調系統技術要求，例如溫度，濕度，潔淨度等，提供一個完善的空氣處理方案。冷量10kw至700kw，處理風量從2000m³/h至100,000m³/h。結構合符EN1886:2007標準。

Modular Type AHU, TFMC series, is specially targeted at demanding indoor environment, it can easily fulfill system requirement by various functional section combinations. Such as humidification / reheat / filtration sections etc. Capacity from 10KW - 700KW and flow rate 2000m³/h - 100,000m³/h above. Comply to EN1886:2007.

大風量EC風機盤管 EC Fan Coil Unit

TFFC系列大風量EC風機盤管，採用陽極鋁面板配上30mm厚PU保溫，結構輕巧直流EC風機，4排盤管設計，風量由1000CFM至1800CFM。

TFFC Hi airflow EC fan coil unit, with lightweight Anodized Aluminum Panel with 30mm PU casing insulation and EC fans, 4 rows coil design, Flow Rate from 1000 CFM ~ 1800 CFM.



盤管 Coils

盤管選型全以AHRI410認證軟件計算，利用無縫紫銅喉，以機械漲接波紋翅片，交錯排列而成，不但傳熱性能高，氣流阻力低，並且不容易產生污垢。在惡劣或鹽霧環境下，可選用銅翅片或帶防腐蝕塗層鋁翅片*配以鋁外框及不鏽鋼外框，以加強防腐蝕能力。可提供冷/熱水盤管，敞熱盤管，冷媒盤管等。

Coils are selected according AHRI 410 standard, constructed with seamless copper tube and mechanically bonded to waved fins. Its advantages are high thermal conductivity, low pressure drop and less scaling. Copper Fin / Epoxy coating Fins and S/S frame are optional for corrosive environment. Water Coil / Condenser Coil and Dx Coil are available.

散熱機組/乾冷機組 Condenser Unit / Dry Cooler

隨著市場對環保節能意識加強，水冷系統應用相應增加，TFDC干冷器系列主要以水或二乙醇溶液作散熱媒介，散熱量由27KW - 770KW。結構可以是單元或組合模式，以高強度鍍鋅板配合防腐蝕及紫外線噴粉塗層。風機為獨立模塊，易於拆卸維修。盤管可以按環境選擇標準鋁翅片，帶防腐蝕塗層或酸洗塗層翅片，銅翅片或全銅盤管。亦可按要求作出控制系統配置。

TFDC Condenser is using water and glycol solution as cooling media. Heat Rejection from 27KW - 770KW. Modular or single unit subjects to footprint. Powder coated G.I. sheet gives high resistance against corrosion and UV. Epoxy coating / Hot dip coating treatment / copper fins are optional for corrosive condition. Integrated control for heat rejection capacity is also available.



工程履歷 Job Reference

香港 Hong Kong



深圳灣口岸
Shenzhen Bay Port



富通中心
FT LIFE TOWER



南豐AIRSIDE商廈
Nam Fung Airside



The Eastmark



屯門醫院
Tuen Mun Hospital



堅尼地城泳池
Kennedy Town
Swimming Pool

澳門 Macau



澳門鏡湖醫院
Kiang Wu Hospital –
Macau



上葡京
Grand Lisboa Palace



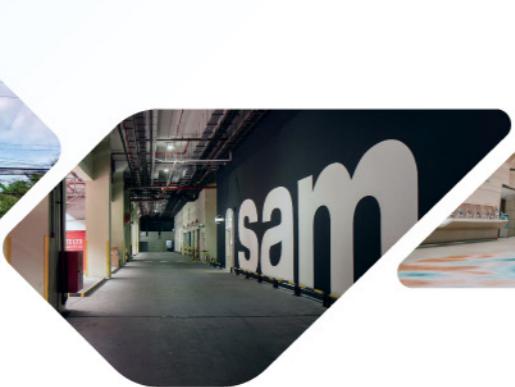
新濠天地
City of Dreams

工程履歷 Job Reference

海外市場 Overseas



Uttarakit Hospital
[Thailand]



Singapore Art Museum,
Tanjong Pagar



ION Orchard,
Singapore



Singapore
Changi Airport T2



Opsonin
Pharmaceuticals Ltd.
[Bangladesh]



Incepta Pharma Ltd.
[Bangladesh]

中國 China



Opsonin
Pharmaceuticals Ltd.
[Bangladesh]



北京現代汽車展覽館
Hyundai Motorstudio, Beijing

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工程項目 Project at Glance



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The LINKS
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Queen Elizabeth Hospital
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Ap Lei Chau General Out-Patient Clinic
San Po Kong Robert Black General Out-Patient Clinic
Pamela Youde Nethersole Eastern Hospital – HBOT
Fung Tak Estate Community Centre
Chuk Yuen, Shek Kip Mei Community Hall
Lok Ma Chau Control Point
Wong Nai Chung Municipal Services Building
Aberdeen Municipal Services Building
Hong Kong Film Archive-Ap Lei Chau Store
Tuen Mun Customs & Excise Training School
Fanling Police Tactical Unit &
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澳門 Macau

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The Venetian Hotel
The Londoner
Star World Hotel
Galaxy Hotel
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Macau Daily
Macau Landmark
Macau Villa de Mer Lot V
Circle Square
University of Macau
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Archives of Macao



離島醫療綜合體 Macau Cotai Healthcare Complex

海外 Overseas

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Penicillin Production
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CAGUAS Courthouse P.R.
Cooper Vision, P.R.
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