Newsletter Summer 08



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MESSAGE FROM THE PRESIDENT

The courses was well received and we had recorded full enrolment in all of the 15 classes and issued 2344 individual CPD certificates and 109 full course certificates. Such remarkable results are very encouraging and I would like to recommend the association to provide similar program in the future.

On 5 May 2008, the Qualifications Framework (QF) was launched by the Education Bureau to clearly define the standards of different qualifications, ensure their quality and indicate the articulation ladders between different levels of qualifications. Various support schemes have been introduced to support quality assurance of education and training providers. HVAC being part of the E&M industry, the Industry Training Advisory Committee (ITAC) has completed the draft Specification of Competency Standards (SCS) for industry consultation. As this framework will be used to recognize our existing skills, knowledge and work experience; members are reminded to visit Qualifications Framework website (http://www.hkqf.gov.hk/) and review the draft SCS from this website.

It is my greatest pleasure to have the opportunity to serve the council for the past two years and I would like to thank for the council's tremendous effort in contributing to the development of the air conditioning and refrigeration industry. The next Annual General Meeting of the

Association will be held in June 16 and the new council will be elected during the AGM. I would like to encourage all our members to join our upcoming AGM and to show your support for the association. I look forward to seeing you all at the AGM. .

Ir Raymond Synn

President

NEW TECHNOLOGY

Oil-Free Centrifugal Chiller

The last session of the CPD program jointly organized

by our association, ASHRAE, BSOMES, CIBSE, HKIE

and IVE was successfully completed on 6 May, 2008.

By : Daniel Chong (FHKIE,FIPHE,RPE,MIMechE,MIE(Aust),MIMarE,MCIBSE)

New Compressor Technology

A new type of compressor adopting the technology of magnetic-bearing system has been introduced to Hong Kong HVAC industry for over two years. Unlike traditional centrifugal and screw type compressors, the magnetic-bearing compressor is not required any oil lubrication. The entire oil management system including the oil pumps, separators, heaters etc. is not necessary to be provided. Hence the cost on maintenance can be greatly reduced as only periodically inspection on the compressors and general cleaning on the control board is required.



Message from the President

10 - 11 China Refrigeration 2008 1 - 2 New Technology-Oil-Free Centrifugal Chiller

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People Interview-Ir Roger Lai

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Member List

Project Highlight -

Proposed Development at K11 & KIL 9805 at the Junction of Hanoi Road, Carnavon Road and Mody Road

Editorial Board Chairman: Derek Lam Advisor: K. L. Chan

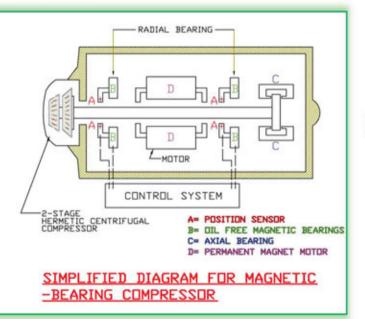
Members: (in alphabetical order)

Mr. C.H. Wu Mr. Conson Yu Ms. Queenie Young Mr. Raymond To



Operation Principle

In essence, an oil-free centrifugal chiller consists of one to multi-compressors, each compressor is a stage direct hermetic type centrifugal compressor integrated with a variable frequency drive running on a stepless variable-speed digital controller, the rotation speed for normal operation is between 18,000rpm to 48,000rpm. By adopting the digital controlled electromagnetic coupled with the positioning bearing build-in signal sensors ring, the entire moving part, i.e. the rotor shaft and the 2-stage impellers are fine positioned and levitated into a magnetic field. By adopting the aerospace control technology, the electromagnetic intensity is automatically adjusted to correct and compensate the out-of-balance and/or any deviation from the centre point.



Power Failures and Shutdowns

There is a pair of backup graphite-lined bearings equipped in the compressor designed for normal system shutdown and to prevent sudden power failure. The compressor uses capacitors to smooth ripples in the DC link in the motor drive. In the event of power failure the back EMF will keep the capacitors charged to provide sufficient power to maintain levitation when the compressor back in normal operations.

Noise, Energy and Vibration

Because the rotating parts are levitated, the overall sound pressure generated from the oil-free chillers is around 72 to 80dBA at 1m under ARI Standard 575-94. By combining multiple compressors in one single flooded evaporator, the fuzzy-logic control system drives the compressors at the optimum point of the performance and at the lowest power draw at all time. The overall energy savings over the conventional chillers, subject to prove, is claimed 35% and more. The vibration levels, in general, are less than all other types of chillers on similar range of capacity.

Conclusion

It can be seen that overall benefit of the oil-free chiller is higher efficiency, energy saving, soft start, less noise and vibration, eliminate oil problem, less plant space required and light in weight. The operation and maintenance cost is yet to be verified in time. However, the limitation in unit capacity and capital cost are certainly concerns to the owners.

References:

1) HPAC Engineering, January 2004

2) TURBOCOR-Oil Free Compressor Technology o

The article is not related to the view of ACRA



在現今千變萬化的社會,發展步伐迅速。為了生存及提高競爭力,改革已經是司空見慣。在商業社會,推行改革管理(Change Management)比較容易一些,但在公營機構「大鑊飯」的心態下,要成功推行改革管理,可以說是逆水行舟。前機電工程署署長黎仕海工程師(Ir Roger Lai)會和我們分享這難得的經驗。



工作歷程

Roger於1967年畢業於Technical College(理工大學前身)的電子工程學系。因成績優異,被學校推薦到英國參加Scheme A學徒訓練。Roger雖然拿到獎學金,但只足夠購買一張單程機票到英國。在這破釜沈舟的情況下,Roger加倍努力,於1971年完成學徒訓練,並積蓄足夠旅費返回香港工作。最初,Roger加入本地一所電子公司工作,一年後,再轉到中華電力有限公司(CLP)擔任助理工程師,不經不覺就工作了五年。離開CLP後,曾經在機電工程署(EMSD)工作了一段日子。後來加入了香港鐵路有限公司(MTRC)參予第一期地下鐵路的建設工作,於1981年3月再次加入EMSD。Roger於2001年7月晉升為署長,在EMSD工作了近26個年頭後,於去年底正式退休。

Roger前期工作時間大部份跟電子工程有關,對機電工程行業的認識是始於1999年透過跟EMSD和FEMC的定期會議開始。經過長時間的接觸,Roger發覺我們機電行業非常團結及投入,組織緊密及有代表性,他只要跟FEMC溝通和對話,很多問題都能下達及解決。

三件難忘經歷

在Roger的工作生涯中,有三件事令他難以忘懷,一是營運基金(Trading Fund),另一樣是沙士(SARS),第三樣則是新的機電工程署大樓(EMSD HQ)。

在1992年,Roger接到上級的指令,要在EMSD推行營 運基金的運作模式,實在有點擔心。在分析過營運基 金的好與壞後,覺得方向是正確及有利長遠發展,所 以便著手推行。1992至1996年是預備期,1996年正

> 式成立營運基金。10年間風雨飄搖,克服不少裏 裏外外的困難,到2006年,機電工程營運基 金獲得香港管理專業協會主辦的優質管理

> > 獎的金獎,得到大家的認同,Roger覺 得很欣慰。其實營運基金即是自付盈 虧,在資源上的彈性多一些,不需 要受制於政府撥款影響,對顧客

的反應及生產能力自然會加快及 提高。但工作壓力也隨之而增 加,做得好,客戶經常會讚賞,

相對地滿足感也多一些。營 運基金推行初期也有很大阻力,因此需要坦誠地和同事 多溝通,明瞭及開解他們 的疑慮,同時也令同事明 白到它可以帶來的好處,並 努力幫助他們解決實際問 題,這樣同事便慢慢接受及協助推行新的改革。

在SARS期間,Roger每天都非常憂心,尤其是對在醫院工作的同事更加掛慮。在威爾斯醫院發生事故以後,Roger馬上下令派發口罩給在醫院工作的前線員工,並發公開信給全體同事作打氣和鼓勵。後來有4名員工不幸染上SARS,但最終也都痊癒。EMSD曾創下紀錄,在3天之內於某大醫院內安裝了297把抽氣扇,加強病房內的負氣壓情況以助防止疾病擴散。

幾年前,當上級提出以當時是空置了的「啟德機場空運貨站第二期」的大樓改裝作為EMSD的新總部(HQ)的時候,Roger馬上同意,因為當時在加路連山道的總部大樓實在太擁擠,無形中窒礙部門的發展,而這提議正是EMSD一個新的契機。新大樓由建築處設計,但EMSD提出了很多節能概念和技術以作參考,並刻意引進新穎的節能裝置和再生能源技術;使整個EMSD HQ不但可以作為辦公大樓,同時也成功為一個活生生的能源應用展覽場館。在七樓有一個可以同時容納200人的演講廳,是Roger向各有關方面極力爭取設立的,現在部門內很多典禮、集會、簡介、和培訓活動都在這演講廳舉行,非常方便,使用率也很高。

寄語行業及年青人

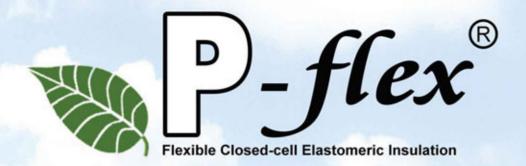
機電行業要發展得更好,除了要多培訓人材外,還需要多引進一些在節能方面的新技術及產品。雖然這方面會面對很大困難,但大家要背負社會責任,為明天努力。還有在系統調試方面要多加注意,要推廣Building Commissioning,使在建築物內的整個機電系統能發揮出原有的效能。

對於年青人,Roger建議他們要找出自己具興趣的行業去發展,要敬業樂業,不要勉強自己屈處於毫無興趣的工作和抱著交功課的心態。儘力嘗試要求自己做好一點,多嘗試新的方法和反思改善現在的安排,令自己不斷前進。

Roger的座右銘就是做人做事都要有趣味性和滿足感。

退休現況

Roger雖然說是退休,但生活卻多姿多彩,現在除了擔任香港學術及職業資歷評審局委員、和香港能源工程師學會的委員外,並於香港大學和理工大學擔任客席教授。閒時並經常健身、旅遊和練習唱歌。下次大家有需要找表演嘉賓,可以考慮找Roger表演一番,粵曲和時代曲都難不到他呢!。



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Off-site Testing

All condenser water pipes were off-site fabricated completed with sample check on welding joints by ultrasonic or magnetic particle inspection

Uses of Premises

It consists of Shopping Arcade at Basement and Podium Floors, 15 levels of Hotel Areas in the middle and Residential Apartments at Upper Portion

Air-Conditioning Provisions

A 3,000 tons water cooled chillers serve Arcade Area and another 1,400 tons water cooled chillers serve Hotel Floors. Besides, a third 375 tons air cooled chillers provide air conditioning to Open Space at Ground Floor level

Smoke Extraction System / Staircase and Lobby **Pressurization System**

Smoke extraction systems are provided for main escape route of Hotel Floors and for Basement 1 to Basement 4. 5 nos. staircases are equipped with staircase and lobby pressurization systems for basement areas

Off-site Fabrication of Condensing Water Pipes **Condensing Water System**

- The cooling towers were located on the upper roof of the building whereas the chillers at 7/F. The vertical separation is over 200 metres
- The fabricated pipes were conducted hot dipped galvanized coating at off site
- After galvanizing, the pipe works were delivered to site for installation and connection

Summary Project

Project Site : Tsim Sha Tsui

Client : New World Development Co., Ltd.

Architect : Dennis Lau and Ng Chun Man

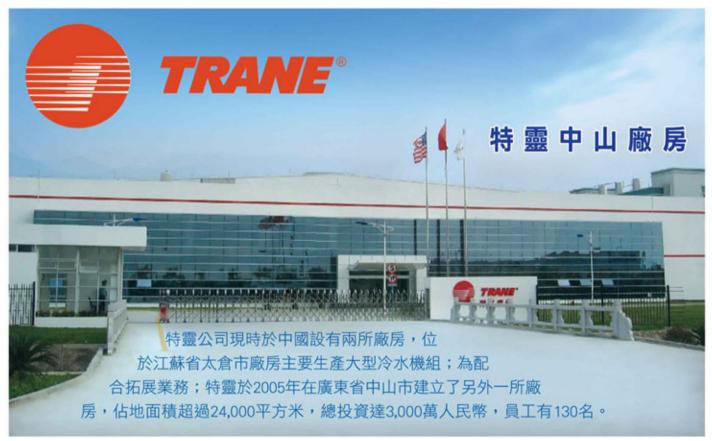
Architects & Engineers (HK) Ltd.

: Meinhardt (M&E) Ltd. Consultant

Main Contractor: Hip Hing Builders Co., Ltd.

Completion Date: April / 2008 •





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■廠房內貌

廠房設備完善,陳列室陳列不同型號的產品,方便顧客查詢。此外,廠房附設培訓中心,培訓項目包括銷售訓練及產品知識。



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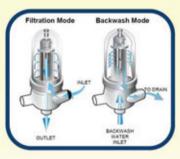
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Water flows through the discs from outside to inside. The micro-grooves on each side of the discs form a matrix trapping particulate in the intersections.

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Filter in Backwash mode

Backwash Valve

IN

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Valve

OUT

DRAIN

During the backwash process, the spine spring piston rises up, releasing the pressure on the discs. Tangential jets of clean water are pumped at high pressure in the opposite direction through nozzles at the center of the spine. The discs spin free and clear, loosening the trapped solids. Solids are quickly and efficiently flushed out through the drain.





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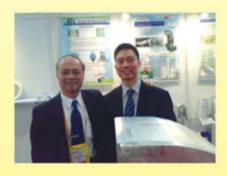


China Refrigeration 2008

The China Refrigeration 2008 was held at the Shanghai New International Expo. Centre on 9-11 April 2008. There were 968 exhibitors from 31 countries and over 40,000 visitors from more than 100 countries which set the new records of the Exhibition.











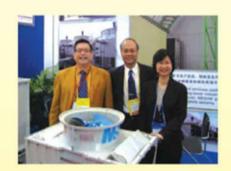




The displayed products ranging from large centrifugal chillers to small components such as sensors and different kinds of HVAC&R accessories. Products with functions of energy saving and environmental protection were received a lot of enquires. The active participation of exhibitors from Korea, India and other Asian countries made the event successfully.



For your information, the China Refrigeration 2009 will be held at CEFC Pazhou Complex, Guangzhou, China again on 5-7 April 2009.



















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ACRA Annual Dinner 2007



The annual dinner of 2007 was held on 26 November 2007 at Ball Room of the J W Marriott Hotel. More than 500 participants including members and friends from industry were attended. Every body really enjoyed the program and atmosphere. Council members took the photo after the dinner.

Technical Visit to Midea

ACRA and EI (HK Branch) jointly visited Midea Air Conditioning and Refrigeration Group in Shun De on 29 Feb to 1 Mar 2008. Members were interested on heat pump systems from split unit with high COP and hot water produced at the same time.





Spring Dinner 2008

ACRA spring dinner was successfully held on 14 March and nearly 100 participants were enjoyed the delighted night with receiving the red pockets from 財神.
The council members were taken photo with

財神 to gain "Luck" and "Wealth" for the

new year.



Visit to China Refrigeration Exhibition 2008

ACRA was invited to attend the Opening Ceremony of the CR Exhibition 2008 in Shanghai on April 9 - 11, 2008. KL Chan and Conson Yu also visited the Exhibition and met some old friends from Hong Kong.





Po Toi Island Hiking

There were 55 participants joined the Po Toi Island hiking which were held on 25 May 2008. Members and their families were enjoyed the leisure time and had a lovely sea-food lunch at Lamma Island. Members took the photo at the hill top which is the most southern point of Hong Kong.

Bowling Competition

The ACRA Bowling Competition was completed on 22 & 29 May 2008. The final result of the winners was as follows:

Team Awards

Champion:

Newland Eng. Ltd. (Team 1) - 3262 points 1st Runner Up:

Southa Co. Ltd. (Team 1) - 3019 points 2nd Runner Up:

Young's Eng. Co. Ltd. (Team 2) - 2930 points

Special Awards

Highest 3 game series : Cindy Lee of Newland (Team 1) - 601 point

Highest single game:

Dick Cheng of Southa Co. Ltd. (Team 1) - 239 points •





China Overseas Mechanical & Electrical E Dalkin Airconditioning (Hong Kong) Ltd. Efatar Engineering Co., Ltd. Hong Kong Ihermo Industries Ltd. Hain Chong Aster Building Services Ltd. Johnson Controls Hong Kong Ltd. Kervin Engineering Co., Ltd. Kervin Engineering Co., Ltd. McQuay Air-Conditioning Ltd. McGuay Air-Conditioning Ltd. McG. Engineering Ltd.

Meco Engineering (HK) Co., Ltd. Quad-lech Engineering (HK) Co., Ltd. Ryowo (Holding) Ltd. Siemens Ltd.

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Trane Hong Kong
Winston Air Conditioning & Engineering (HK) Co., Ltd.
York International (Northern Asia) Ltd.
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2885 1620 2963 7175

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3590 4656 2827 0688

2881 8011 2368 6136

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AP-Contracting & Bectical Installation
E & M Contractor
Split type A/C, Chilled Water Fan Coil Unit, Water Cooled Package & Split Type Water Source, Heat Pump Chiller Supplier
Engineering Contractor
Contracting 2780 5285 2893 6261 2891 8722 2573 1832

ACRA Corporate Members

ACRA Associate Members

2319 8381 Manufacturer for water cooling towers, water tanks & pumps, etc. Building Automation AFA, Security, CCTV & ELV System 2856 3813

Building Services Installation Supplier of A/C Equipment

Design, Supply, Installation and Maintenance of HVAC System Contracting Building Services Design, Installation and Maintenance Trading of HVAC Equipments

2781 0871 2520 2403 3193 1300

2426 3123 Contracting

Siemens Ud.

Skyforce Engineering Ltd.

Southa Co., Ltd.

Standard Retrigeration & Engineering Co., Ltd.

Takasago Thermal Engineering Ltd.

Technicon Engineering Ltd.

Welcome Oncho Denki Ltd.

Westco Air Conditioning Ltd. A&R Engineering Co., Ltd. Air Master International Ltd. Air Trade Centre Ltd. Alpha Appliances Ltd. Alstern Technologies (HK) Ltd.
Amhold & Co., Ltd.
Brightvell Air-Conditioning Ltd.
Risky Limited Brisky Limited Bun Kee (International) Ltd.

Basky Entities
Ban Kee (infernational) Ltd.
C.J. Wishing International Ltd.
Chinalight Creation Ltd.
Chung Hing Electric Co., Ltd.
Clean Air Services
Clydeman Engineering Ltd.
Crownfin Limited
Dah Chong Hong (Engineering) Ltd.
Dah Fung Service
Delta Pyramax Co., Ltd.
Eavon (H.K.) Co., Ltd.
Enviro-Tech Engineering Co., Ltd.
Euro Airconditioning Ltd.
Evinesive Trading Co., Ltd.
Fook Loong (Hi) Ltd.
Fungs E & M Engineering Co., Ltd.
GTECH Services (Hong Kong) Ltd.
GelEC (HK) Ltd.
Gelther-Force Air-Conditioning Engine

Getter-Force Air-Conditioning Engineering Co., Ltd. Getwick Engineers Limited. Goodway Bectrical Engineering Ltd. Goodways International Ltd. Goodways International Ital.
Gotop Engineering (HK) Ltd.
Hang Shun Engineering Co., Ltd.
Hanvest Peak International Ltd.
Honest Air Conditioning Ltd.
H.W. International Air-Conditioning Ltd.
IES (Hong Kong) Limited
IMS International Ltd.
Kinden Corporation

Kings View Airconditiong Engineering Co. Ltd. Lands & Gyr Ltd.

Lands & Gyr Ltd.
Lee Tack Engineering Co., Ltd.
Link The Best Company Ltd.
Mega Power Engineering Co., Ltd.
Mega Fiberglass Engineering (Int'l) Ltd.
Midde Discritic (Fix) Ltd.
NAP Acoustics (For East) Ltd.
N. 1 Engineering & Medacia Supply Ltd. No. 1 Engineering & Material Supply Ltd. Oxprime (International) Ltd.

Peterson Engineering Ltd.
Practical Engineering (HK) Co., Ltd.
Raising Engineering Ltd.
Richmax Air-Conditioning Co., Ltd. Royalson Asia Ltd. Sanby Trading Co., Ltd.

Sonby Trading Co., Urd.
Sovils Engineering Ltrd.
Sovils Engineering Ltrd.
Sing Kin Ltrd.
Southa Engineering Limited
Souper Mark (H.K.) Engineering Co., Ltrd.
Thermitech Building Products Ltrd.
Tom's Equipment Co., Ltrd.
Golden Phoenix Engineering Service Ltrd.
Librion Monoral Ltrd.

Union Manor Ltd. Viewco Building Services & Eng. Co., Ltd. Vital Engineering Co., Ltd. Wai Luen Air Conditioning Ltd.

Wo Kee Hong Ltd. Wolfer Asia Ltd. Wysermann Co., Ltd. Yordland Engineering Ltd.

Contracting
Manufacturing of Air Conditioning Equipment & Component
Contracting & Supplier of Air Conditioning product
Authorized distributor of "General" air-conditioner 2408 2960 2764 0307 2887 7000 2529 7555 2647 8163

Contracting
'Armaflex' insulation manufacturer
To Market and Distribute A/C and Engineering Equipment for Building Construction Industry of HK & China Market
Trading of HVAC Equipment
Supply & Install Window/Spilt Type & Packaged VRV Systems

Supplier of air-conditioning products - Dalkin-Japan, Kimukoh-Japan, Inaba-Japan, Taco-USA, etc. Supply of electrical products of brand "MK", "LEGRAND" & "HAGER"; Cable of brand "DRAKA", "PRELLA", & "AEI"
Environmental Protection Services, Indoor Air Quality, Duct Cleaning System
E & M Contracting
Contracting / Supplier / Building Automation
HVAC Installation, E&M Packaged Installation

Contracting

Trading Supply of HVAC equipment

Supplier (Authorized Dealer of AC Products - Dalkin, Tayo, Valmatic, Honeywell-MING)
Trading - Mechanical Equipment, Building Materials, Environmental Products
Insulation Material Supplier
E & M Contracting

Contracting Supplier

Contracting
Contracting
Contracting
Contracting
Authorized Distributors
Monufacturer's Representative
Electrical & Mechanical MVAC Engineering
Aluminum Cladding for Air-Conditioning
Supply 'Shangleng' blower & fan for ventilation
Contracting & Supplier
Manufacturer of 'Air-Conditioning Equipment
Supply & Install Central Hot Water Plant and Seawater Plant, Supply of Equipment
Manufacturer of "IMASU" ventilation product
Building Senices - E & M Works
HYAC Contracting & Mointenance
Supply of Cold Meter, Chilled Water Energy Meter
Registered Ventilation Contractor
Supply Pre-insulated Pipe, Air Filter, Butterfly Valve, Electrostatis Precipitator, UV Sterilizer & Other Building Material
Contracting, Supplier of Air-Conditioning Equipment
Suppler & Manufacturer of "MDS" product
Design, Supply & Installation of Acoustic Teatment and Vibration Control Products
Contracting Supplier

Contracting Supplier
Pump, Cooling Tower, VAV Box, Vibration Isolators, Dura Duct, Liquid-Solids Separation Systems, Fibregiass supplier Supplier

Pump, Cooling Tower, VAV Box, Vibration Isolators, Dura Duct, Liquid-Solas Separation Syste Contracting; Supplier Authorized Distributor of Toshiba & Carrier product; Registered Contractor Distributor of HVAC product Trading of 'SINRO' Cooling Tower, Fan Coil, AHU & Control Specializing in trading Construction Insulation Materials, such as Phenolic Foam, Fibreglass Contracting / Energy Service Design, Supply & Installation of Air-Conditioning Contractions.

Contracting Air-Conditioning & Refrigeration Installation

Supplier / Disbributor for Electrostatic Precipitator
Contracting / Supplier for Weatherproof / Fire Resistant Materials to E & M Services
Insulation Material Supplier

Contracting Contracting Contracting

2797 2168 2543 0610 2571 5382 Contracting 2890 9321 2522 3128 2456 0198

Contracting
Contracting
Supplier of Electric Appliances (Brand Name : Mitsubishi Daiya, LG, GREE, TCL & Body Sonic, etc.)
Supply & Manufacturing of full range of Ventilation Fons
Trading & Manufacturing Air Conditioning Accessories
Design, Supply, Installation and Maintenance of HVAC, Electrical and Fire Services System