



空酮及冷凍商會有限公司 E HONG KONG AIR CONDITIONING AND

REFRIGERATION ASSOCIATION LIMITED

Rm. 1801, Tung Wai Commercial Bldg., 109-111 Gloucester Road, Wanchai, Hong Kong. E-mail:info@acra.org.hk

Newsletter Winter 06

通

SSAGE FROM THE PRESIDENT



As the US interest rate reaches its peak, and the Heng Sang Index reaches its all time high and heading towards 19,000, the Hong Kong investors' confidence is also at its all-time high. The Hong Kong's construction industry may not feel the same vibe at this moment, but I trust that we would step out of our industries down cycle shortly after.

In the near future, we are expecting to see the launches of the new mega projects such as Tamar, West Kowloon culture district, Kai Tai redevelopment, and not to mention about the new hotels, office buildings and residential buildings of the commercial sectors that are on the way to come. Hong Kong's construction industry can certainly look forward to more than 100 government contracts worth approximately HK\$30 billion that are due for approval during the 2006-2007 Legislative Council sessions.

As for the overseas markets, many Hong Kong contractors are drawn by the vast potential business opportunity in Macau and have already engaged in the developments of various Casinos and Hotel resorts projects. Just take the E&M sector as an example, contracts worth billions of dollars were awarded in the past year and there will be more to come. It is definitely good news for contractors who wish to diversify their business outside Hong Kong.

2007 will be an exciting year, and I look forward to working with you and would like to take this opportunity to wish all our members a prosperous year ahead.



Raymond Synn

President

25.5°C - Right or Wrong?

Recently, the government has launched the "Action Blue Sky" campaign and urged the public to join hands with the government to improve the air quality in Hong Kong - by raising the indoor temperature of air-conditioned premises to 25.5°C and adopting causal dressing in summer months. As air-conditioning accounts for one-third of Hong Kong's total electricity demand, it is estimated that by raising the air-conditioner temperature by three degrees Celsius, to 25.5 degrees, HK could save about 1 billion units of electricity each year, estimated at about \$900 million HK.



When it comes to energy conservation to save money and to preserve our planet, it is everyone's responsibility to act. We are pleased to see our government taking proactive action to improve our environment and agree with the fact that by changing our indoor temperature and our attire to work would save energy by using less electricity.

However, two important elements i.e. "Existing System Constraint" and "Human Comfort" need to be carefully considered when promoting the higher indoor temperature:

Existing System Constraint would be the stumbling block in achieving the goal of 25.5°C. In most of the existing commercial buildings, the air-conditioning systems are not designed to cater for this temperature. Overriding the existing system to run at 25.5°C without proper re-engineering would result in poor indoor environment and affect human comfort. Some of the visible constraints in implementation are:-

- Message from the President
- **Focus**
- Focus (cont'd)
 - People Interview-
- Mr. C.O. Synn
- Mr. Raymond Lin
- Project Highlight
- Factory Introduction

19-20 ACRA Activities 2006

ditorial Board

Chairman: William Yick Advisor : K. L. Chan

embers (in alphaberical order)

Dave Chan Chloe Chau Derek Leung Michael Leung Jason Wan





- Buildings equipped with only simple on-off thermostatic control for FCU or split units can have a differential band of over 4°C.
 When setting the set point at 25.5°C, the indoor temperature can fluctuate up to 27.5 °C before cooling come into effect again.
- Most of the existing air-conditioning systems are not designed to remove humidity at higher temperature; the required 25.5°C can only be achieved by sacrificing the indoor humidity. High humidity affects our perception of air quality and that aspect of comfort and satisfaction with the environment.
- Some of the existing air-conditioning systems have poor ventilation effectiveness which cannot deliver and control the right amount of supply air to cool the indoor environment evenly. Raising only the room set point temperature to 25.5°C would lead to uneven temperature distribution with uncomfortable hot spots.

Human Comfort should not be overlooked when implementing energy saving, numerous academic studies have shown that workers' productivity have direct relationship with thermal comfort in the environment. The environmental parameters that constitute the thermal environment affecting human comfort are: temperature, humidity, air velocity and personal parameters (clothing and activity level).

- Temperature has direct linkage with thermal comfort but the extent of impact on individual varies with their dressing, activity, habits and experience. Some people have higher productivity and stay more alert at lower temperature while some find 25.5°C as their optimum working temperature.
- In addition to temperature, humidity affects comfort in a number of ways both directly and indirectly. The direct effect of
 humidity on a person is the thermal balance, and in turn on skin temperature and thermal sensation. At a given temperature,
 decreased humidity results in occupants feeling cooler, drier and more comfortable; and the air is perceived to be fresher,
 less stale and more acceptable. Another indirect effect of humidity is on the growth of micro organisms and mold under high
 humidity environment.
- The air velocity in a space can also lead to improved comfort under warm conditions. An elevated indoor temperature can be compensated by an increased air velocity. However, in most cases, it is not possible to offset a temperature increase by increasing the air speed in a central air-conditioning system. Some workers may require additional local fans to compensate the 25.5°C indoor temperature.
- At many workplaces, workers have different activity level. Some workers might be seated most of the time while some would
 frequently shift from seated to standing/walking. The temperature requirements of them are different. When deciding the
 temperature setpoint in a workplace, the difference in activities must be taken into account to cater for different requirements
- Even though the government is asking the public to dress down in summer, in practice, people working in the same space
 often use different level of clothing, which can also influence their preference on temperature significantly.

With the above two considerations, the implementation of 25.5°C energy saving shall always come with careful re-engineering of the existing systems with human comfort factors as the prime design criteria. The adoption of latest technologies such as precise digital temperature control, efficient dehumidification system, displacement ventilation system, etc could definitely help to meet or even exceed this goal without sacrificing human comfort.

In conclusion, 25.5°C is good for general publicity and can be used as the guideline to implement energy conservation. However, various human comfort factors and existing system constraints should also be taken into consideration when determining the most optimum indoor temperature of a workplace which can maximize workforce productivity as well as saving energy.

ACRA members are always here to help answer any questions you may have, and would happy to help resolve the existing system constraints for your systems.



Air-conditioning Systems





ENERGY

EFFICIENT

EXPERIENCE



Direct Line: 2807 4785 Direct Fax: 2887 0429 Email: tony.wong@jec.com

The Jardine EngineeringCorporation, Limited 13/F Somerset House
TaiKoo Place 979 King's Road Hong Kong
Tel(852) 28071717 Fax(852)28879090



Your total water-cooled air-conditioning solution provider

Cooling Tower

Water-cooled chiller

HITACHI Inspire the Next











Forced Draft

manufactured.



evapco



In addition to CTI certification on all the

thermal guarantee to all products they

cooling towers, Evapco offers 100%

Special Features:-

- Efficient Counterflow design
- Compact and light
- Low drift rate
- Hygienic design
- Maintenance friendly

Cooling Quality Mana Automatic Tube Cleaning Syste

Centrifugal Chiller **Special Features:**

- High COP
- R407C / R134A refrigerant
- · Higher efficiency and reliability
- Compact and light

Cooling Tower Filtration System



Centrifugal

separator





Media **Filters**

PEP Filters is an industry leader in cooling tower and process water filtration systems and offers a broad product line for a wide range of applications.

Benefits:

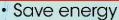
- Reduce energy consumption
- Improve chemical performance
- Lower maintenance cost
- Reduce the risk of Legionella problem

Automatic Tube Cleaning System



Benefits:

- Improve heat transfer
- Environmental friendly



- Reduces corrosion
- Fast payback in less than 18 months

Analogue Technical Agencies Ltd.

Sales Hotline: 2565 3390 Fax Hotline : 2562 6401

Webpage: www.analogue.com.hk Email: enquiry@analogue.com.hk



Clean tubes after 18 months operation



Mr. C.O. Synn has been working for the air conditioning and refrigeration field for more than five decades. Everybody calls him "Master Synn" because of his experience and previous positions in the industry. This time, we have the pleasure of inviting Mr. Synn to share with us his experience of running projects, as well as his management philosophy as concluded by working in the key managerial position in sizeable corporations over the last 30 years.



Mr. Synn started his career of Engineer in Yee On Hong Ltd. in October of 1955 and joined the Jardine Engineering Corporation, Ltd. (JEC) as Air-conditioning and Refrigeration Engineer in August of 1957. He was seconded to Silo Corporation in Taiwan as Director and General Manager in early of 1975 and returned to Hong Kong in July of 1979 for being the Director of JEC. After gaining enough exposure and experience, Master Synn decided to leave JEC in August of 1985 and set up his own company "Krueger Engineering (Asia) Ltd." for air-conditioning and refrigeration business with his schoolmate together with 8 staff members at the beginning.

During his tenure in JEC, one of the most significant and unforgettable projects for him was the original building of Hong Kong Shanghai Bank Building at Queen's Road Central. The building was originally built in 1927 with Ammonia Chilled Water System for the AC Plant with RCC, CW tanks in basement where is very close to the bank vault. The contract span was 6 months, ranging from removing all existing equipment to total completion of AC Plant, including the Seawater Cooling Pumping Plant under Star Ferry Concourse, in operation. There were two Seawater to Fresh Water Heat Exchangers for summer cooling and winter heating for the entire building. The Heat Exchangers were made of cast iron shell and Cupro Nickel Tubing and Tube Sheets, and had size of 60 inches in diameter and 24 feet long with dry weight of 25 tons for each of them. Because of the special size of heat exchangers and to meet the short delivery lead-time, the project team had to design the Heat Exchangers and ordered them from Kowloon Shipyard Hunghom. Moreover, Two Heat Exchangers have to be delivered to the basement of the job site through an existing Hatch Opening on the floor which could be lowered to basement with one end of the shell tilting up and sliding down manually after office hours. During this 6 months contract period, he had to supervise the critical installation work and was quite often required to work overnight. An interesting story happened one night when he conducted the testing and commissioning of Sea Water Pumping System under Star Ferry Concourse at 1:00a.m. with his fellow workers. He was dressed in dirty clothes which was full of mud and grease. What a coincidence that he met my parents-in-law who just returned from their friends wedding party by late ferry. Mr. Synn recalled, "I guessed that they might be wondering on what kind of job I had with JEC at that time!"

Eventually, the project was completed and handed over to HSBC on time on June 1, 1960 when was also the date of the Grand Opening Ceremony of HSBC after renovation. Letter of Appreciation from the Board of Jardine endorsed by the senior management level of HSBC was addressed to him, and perhaps it was one of the contributing factors to his promotion to the Board of JEC and on secondment to in charge of Silo Corporation Taiwan.

Another exciting project was awarded in 1989 for the design of entire E&M installation of the Hong Kong and Macau Center in Beijing, which comprised of Hotel, Conference Hall, Office Tower and Luxury Apartment Tower. During the installation period, the Event of June 4 happened. There were around 40 persons working on site whereas Mr. Synn was in Hong Kong. To ensure the safety of all the on-site workers, he instructed that all staff should stay at their Quarter. They were not required to report duties on site but to the office. He was so worrying on everyone's safety but nothing he could do except to keep updating the news and closely monitoring the latest development of the event through watching the TV all the night.

Next morning, he received a call from Beijing reporting that all Hong Kong residents were allowed to proceed to Airport and board to the Chartered Flight arranged by the Hong Kong Government. However, they found that one of the colleagues was missing and he did not board on the flight. Few days later, they discovered that the missing one had left Beijing and routed to Hai Nan Island in a hurry on his own! It was really an exciting experience being A CEO of the Company.

"Everything goes on fine, eventually! No casualty!". Mr. Synn further added that, "From the experience of these two projects, I would conclude that we have to work full hearted whenever jobs were entrusted to us, no matter big or small. We will go through any difficulties safety."

For management skills, Mr. Synn told us that, "For technical problems, we can refer to Manuals and Hand Book. But for management, there is neither manual nor handbook to refer to, we have to work on our own experience and human relationship."

"Be generous on others faults and always appraise other merits."

Towards the end of the interview, Mr. Synn showed his optimism about the next generation of HVAC engineers in Hong Kong, "I strongly believe that they will keep on the management of operation in Hong Kong and they all have the strengths to overcome any difficulties and challenges in the years ahead."





『連金水先生,行內人稱「水哥」,在空調及冷凍和機電行業已經服務了三十六個年頭。當中一直在怡和機器有限公司工作,曾經共事的同事都是現今在香港空調及冷凍和機電行業響噹噹的人物。想知道「水哥」的威水史,就要慢慢細看:』

從名字學說起

「水哥」的爸爸因家貧而無緣入學,是一個很迷信的人。當「水哥」出生時,,他爸爸就請相士替他算命,相士說「水哥」五行欠金和水,所以他爸爸就把「水哥」的名字改為「金水」。相士還說如果「水哥」長大後能在工程界發展,就能生金;再專注於空調及冷凍行業,就能生水。剛巧這也是「水哥」的興趣,怪不得他能在這個行業做得這樣出色,原來還有一點玄機。

為自己選擇自己的路

其實「水哥」中學時代是就讀於一般的文法中學,但他發覺自己對機械工程十分有興趣,所以除了在日間唸常規的中學外,晚上便去唸「工專」。經過了兩年的刻苦學習,於1967年中學畢業後被香港工業學院(香港理工大學前身)取錄,並於1970年獲取機械工程課程的高級文憑。畢業後,「水哥」和陳建聰先生一同受聘於怡和機器有限公司為助理工程師,不知不覺便工作了三十六年。其實「水哥」在怡和機器的生涯可以分為兩個階段:最初的十九年,他專注在承建工程安裝項目;於1989年,公司委派新的工作性質,及後專注在銷售及市場推廣事宜。

難忘往事

1972年,「水哥」負責當時世界最大「海上餐廳」的機電安裝工作。 在設計及安裝時,除了留意一般機電需要,還要特別考慮海事上對消防裝置的要求,這 也是「水哥」從空調及冷凍範籌外,向其他機電工作踏出的第一步。於「海上餐廳」竣工後,從青衣 船廠運送至夏威夷途中,因報關問題,曾經出現戰艦及戰鬥機「護航」的情況。及後,「水哥」還帶 領同僚到夏威夷為「海上餐廳」的機電系統作調試工作。

其實在七十年代,是沒有已組裝的冷水機組,所有冷水機組都是由承建商自己選料及組裝,所以每個工程的都要懂得計算及配套不同的部件,真是少一點真材實料都不行!

還有在2001年,「水哥」成為籌建位於天馬艦舊址的INTEGER Pavilion 「IN 的家」的主要成員之一。 這個項目是透過英、港兩地機構的專業知識及交流,達到平衡環境、經濟及社會三方面的需求,集環 保及高智能於一身,並開放給公眾參觀作教育用途,是一個非常有意義的項目。

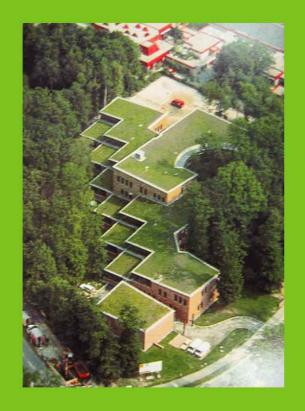
成功之道

作為一個專業人士,最重要保持開放的思維、經常聆聽新的意見及不斷學習及吸收新的知識。作為一個管理人員,維護團隊精神是非常重要的,要知人善任,並經常給予下屬適當的指導及方向。如遇到困難,應一起通過協商及討論來解決。

未來路向

現時「水哥」還未有退休計劃。除了日常工作外,「水哥」亦非常積極參與不同學會及商會的運作及活動,並被委任為學術評審局的行業專家及機電工程行業培訓諮詢委員之成員實行取諸社會,用於社會。

現在「水哥」追求是一個健康的體魄,閒時「水哥」喜歡游泳及打橋牌,如果有興趣跟「水哥」切磋一下橋牌技術,可以隨時直接跟他聯繫。○



RJLG LANDSCAPE & GARDENING SYSTEM

Let's Build A Better Hong Kong

Vegetation Layer →

Roof Garden Soil →

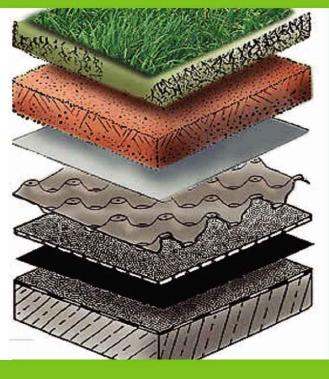
Water Retain and Drainage Board →

Protection and Water Retain →

Mat →

Root Barrier →

Roof →







Unit 9, 13/F, 113 Argyle Street, Mongkok,

Kowloon, Hong Kong

Tel: (852) 2332 3591 Fax: (852) 2374 2166

Contact Person: Mr. Daniel Chong

Contracts Manager

Mobile: 9370 0646

Email: daniel@clydeman.com

(A member of ClydeMan Group of Companies)













Prefabricated Armaflex

lass O Armaflex 🟩



EXPERIENCE COUNTS!

INSULATION FOR AIRDUCT, CHILLED WATER PIPE, REFRIGERANT PIPE, FRESH WATER PIPE, DRAINAGE PIPE, RAINWATER PIPE, HOT WATER PIPE

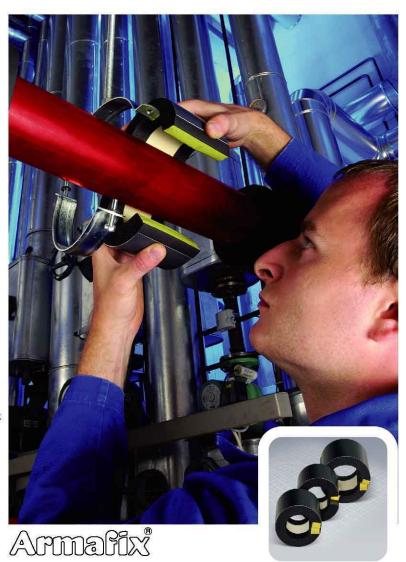
Armaflex Class 0-Energy Efficiency,

Condensation Control, Frost Protection, Fire Resistance.

Rubber compartment; High water resistance to provide long life span.

Dust free, fibre free, CFC free and HCFC free; It improves Indoor Air Quality.

Flexible for ease of Installation, Repair and Maintenance FM, approved thickness up to 120mm



SURER, FASTER SOLUTION FOR SUPPORTING PIPES

Prevents Engineered Ensures Easy Application thickness load-bearing total system Saves compression lengths integrity Time



TOUGH ENOUGH TO FACE THE CHALLENGE



● 无线链缝风机盘管

WIRELESS FAN COIL UNITS



















132 80 %

- 节约时间Time-saving
- 节约人力Lobor-saving
- 节约材料Material-saving

市场区域	对比节省	
	安装工时	人工及付料
北美	8	US \$ 400
南 美	8	US \$ 144
欧洲	8	US \$ 480
中国	10	US \$ 276
港澳	10	HK \$ 1150

● 新菱牌系列股切留 SINRO COOLING TOWER



CHD系列不锈钢横流 方形冷却塔



SR系列逆流式 圆形冷却塔



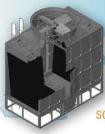
CEF系列玻璃钢逆流式 方形冷却塔



SHC系列玻璃钢横流式 方形冷却塔

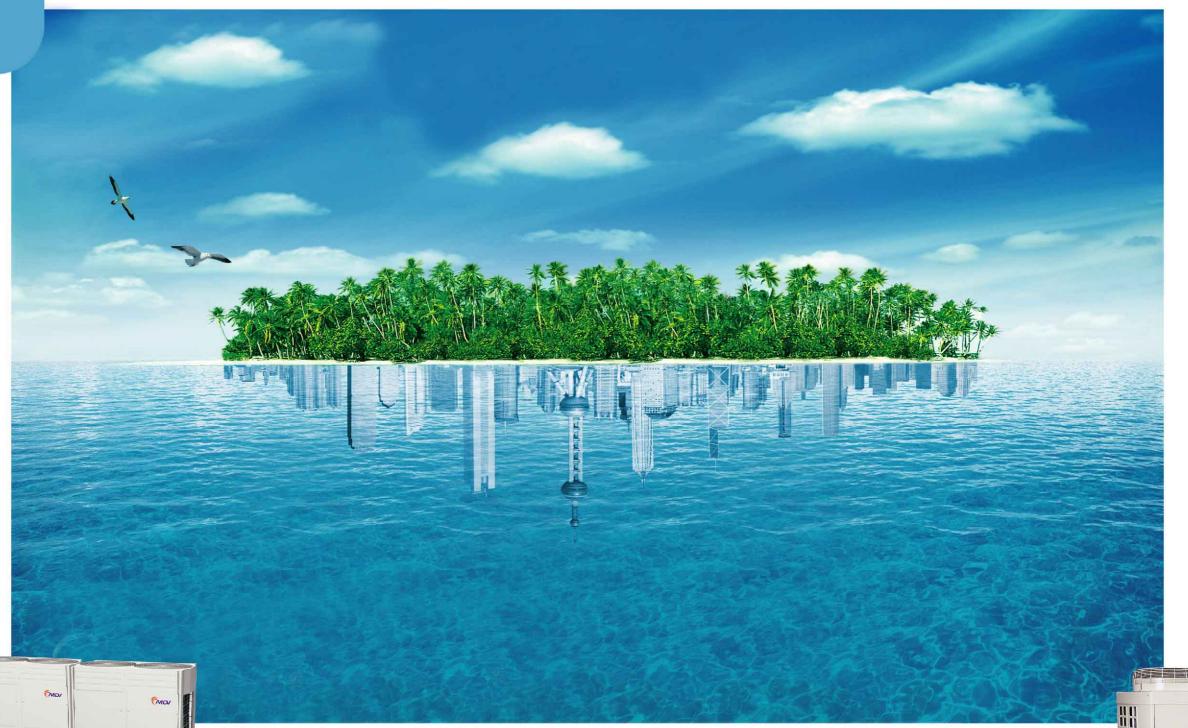


CEF系列不锈钢逆流 方形冷却塔



SC系列方形横流 冷却塔





D 系列數碼渦旋中央空調 -DIII

[D] series: Digital Scroll A/C System -DIII

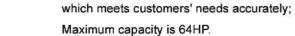












• High efficiency and energy saving: Step less digital capacity modulation range is 10%~100%, And latest R410A unit EER can up to 3.45

5 basic modules, which can be freely assembled.

Excellent performance

Free combination, wide range

All modules have same dimension;

2HP increments of capacity range,

Eco-friendly:

Features

Easy installation

Features

- High COP up to 4.5 and fixed water outlet temperature 60.
- Rapid speed to engender hot water:10 seconds after power on.
- Multi heating water unit combination technology Max. 16 sets of heating water unit could be connected to satisfy customer's requirement.
- Units come from predominant quality control company Midea Quality Control Centre is awarded ISO9001 and ISO14001 certificate.
- Reliable and no electric shock Realize isolation between water and electricity. No electric shock problem of electric heater.









R系列空氣源熱泵中央熱水機組

[R] series: Heating Water System

35kW

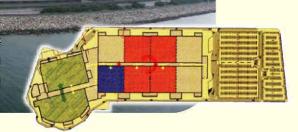






located at Lantau Island next to Hong Kong International Airport.

The Asia World Expo consists of 8 typical exhibition halls, one large exhibition hall and one 19-meter high multifunction hall. The total site area 16.75 hectares, gross floor area 128,000 square meters and net exhibition floor area 66,000 square meters.



Innovative Engineering

The truss was dropped down at 9 meter high from floor instead of 19 meters design height to install all E&M installation. After that, the project team jacked the roof up to the design level by hydraulic system. It helped to reduce the production time and enhance the site safety.



To fasten the progress, all lighting system and fire sprinkler system were pre-fabricated off-site. It minimized the material scrap.

Ice Thermal Storage System

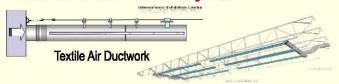


The system produces ice and stores total 19000 RTH at night for day time usage. The system reduces total chiller capacity from 6600 RT to 2817 RT. There are total 1230m³ storage tank for 500,000 ice ball. The thermal storage system can bring the advantage of power energy balancing of day time

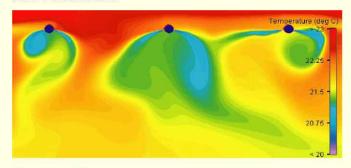
and night time. The effect will be more significant in Autumn and Winter.

Since the Air Cooled Brine Chillers have been used, the system not only reduced the number of chillers but also deleted all cooling towers for preventing air traffic interference.

Textile Air Distribution System



The new air ductwork system has been used in this project to ensure short installation time and improve air comfort inside exhibition halls. The system is very easy to take off for cleaning to improve Indoor Air Quality of HVAC system. The air ductwork is treated as a long diffuser to distribute air with low velocity. The Air Diffusion Simulation was done by the manufacturer before installation.



Project Summary:

Project Site	÷	HKIA Lantau Island
Client		Public-Private Partnership
Architect	:	Ronald Lu & Partners
Contractor		BYME Engineering HK Ltd
Contract Sum		Over HK\$400M
Completion Date	(100)	Dec 2005 *





B H 輝 興 業 集 團 EFATAR HOLDINGS LIMITED

怡輝興業集團由1982年成立至今,由創辦人蕭家祥先生帶領集團穩步邁過25週年。 公司產品「高美」系統具備減低能源消耗 及環保效益更有專業技師度身設計而生產。 就憑經驗豐富員工,為客戶處理各種複雜 問題,贏取良好的信譽。



怡輝集團旗下擁有八間子公司,分別為怡輝冷凍工程有限公司、怡輝工業有限公司、香港冷凍器材有限公司、怡輝工程星加坡私人有限公司、佛山市順德區怡輝空調設備有限公司、佛山市順德區恰輝冷凍淨化器材有限公司及佛山市順德區高美空調設備有限公司。

公司業務範圍包括提供製冷設備的設計、安裝、調試和維修等配套工程技術服務,專業生產系列有:單雙面板風櫃、 風機盤管、蒸發器、冷凝器、風冷 (熱泵)機組、水冷櫃機、

多功能機組及抽濕 機等。

為加強公司管理、 產品質量及推行環 保概念,集團先後 取得德國RWTUV的 IS09001品質認證 及IS014001環境管 理體系認證。更獲 取歐洲EUROVENT空 調高標準的性能認 證書…等。















集團生產設施主要在中國,業務推廣中國各主要城市,而產品集中出口為主,分佈包括英國、澳州及南非···等地。

展望將來,公司考慮開設一間工廠以生產環保產品為主,以配合政府推行「藍天行動」盡一分綿力!

ClyNix. Tapping

Making new branch pipe for in Services Pipeline









<3>





< 5 >



< 6 >



<7>



< 8 >



<9>



TEE-OFF DONE, READY FOR PIPEWORK CONNECTION

Economic and Environmental Benefits

Make new Tee-off from the pipelines while the entire piping circuitry remains in services.

- * No disruption of service to customers;
- * No need to shutdown the system;
- * No need for venting the system after the process;
- * No contamination to the fluid inside in services pipeline;
- * Environmental friendly;
- * Reduce costs on planning, preparation and works;
- * Less time is required.

The Basic Procedures to perform ClyNix Tapping process for steel pipeline:

- Install the Tee-off fitting with flange or screw joint to the existing pipeline by welding.
- ii. Conduct magnetic particles test to ensure that the welding joint is complied with the required standard.
- iii. Install the permanent valve, tapping machine and ClyNix Tapping fixture.
- iv. Carry out hydraulic pressure test to 1.5 times of the system working pressure.
- v. Cutting the in services pipeline through the open valve and perform drain off process accordingly.
- vi. Withdraw the boring head and shut off the valves.
- vii. Remove the tapping machine and the new Tee-off is ready for service.



ClydeMan Group of Companies

Unit 9, 13/F, 113 Argyle Street, Mongkok, Kowloon, Hong Kong

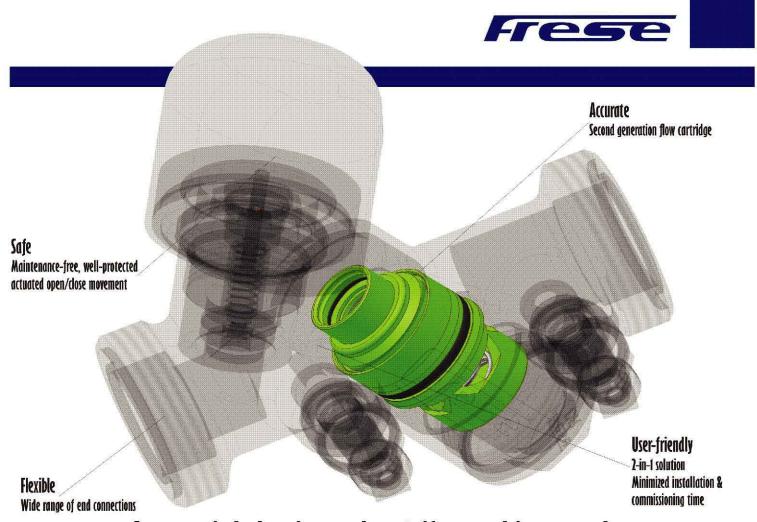
香港 上龍 匠 角 亞 皆 老 街 113 號 13 樓 9 室 TEL: (852) 2332 3591 FAX: (852) 2374 2166

Contact Person: Mr. Vincent Chan Project-in-charge

Mobile: 9042 2863

Email: vincent@clydeman.com

Email: info@clydeman.com Website: www.clydeman.com

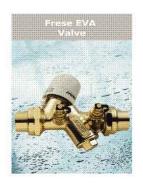


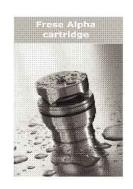
Automatic balancing and on/off control in one valve: The Frese Eva combination valve

The Frese Eva Valve combines automatic balancing with on/off actuated control. Whilst the Frese Alpha Cartridge - the second generation cartridge - limits the flow at the specified level even under fluctuating pressure conditions, the on/off actuator opens and closes the control valve depending on the desired room temperature.

The Frese Eva Valve is practically an automatic balancing valve (Frese Alpha) and a two way valve in serial connection. Combining two different functions in one product, purchase cost is lower, space requirements are minimized, installation is not time-consuming and commissioning is just easy. Furthermore, high quality selected materials for the housing, the cartridge and the actuator guarantee the maintenance-free, long-life operation of the heating/cooling circuit.

Frese balances efficiently HVAC systems all around the world. From cooling systems in the Middle-East to heating systems in Scandinavia, Frese's products transform edge technological research to every day solutions.







Manufacturer's Representative: Goodways International Limited Rm668 6/F Weswick Commercial Bldg. 147-151 Queen's Road East Wanchai Hong Kong

Tel: 2575 8770 - Fax: 2574 1521

Exclusive Distributor: Extensive Trading Co., Ltd. 8/F Chaiwan Industrial Centre Bldg. 20 Lee Chung Street Chaiwan Hong Kong

Tel: 2889 1681 Fax: 2556 6029



WINFLEX 33i

CLASS '0' INSULATED ALUM. FLEXIBLE AIR DUCT-ISO 9001 CERTIFIED

Recent Job Reference (Partial)

- * Ying Kei International College at Ma On Shan Area 90B, STTL 552
- Proposed Residential Building at No. 1 High Street
- * Package No. 6110-Sands Podium and Tower Trade for Podium, Venetian, Macau.
- Science Park Building 4B, G/F
- Renovation Works for 48-49/F American Club at Exchange Square
- Proposed Alteration and Addition Works For New Yoga Studio at 5/F & 9/F., Langham Place.
- Renovation Works for 26/F. Global Strategy Group Ltd. at Great Eagle Centre, Wan Chai.
- * Skyplaza North Office Tower, Hong Kong International Airport.
- Alteration and Addition Works For 36/F., ICBC Tower, No. 3 Garden Road, Central
- Alteration and Addition Works For 38/F. & 40F., ICBC Tower, No. 3 Garden Road, Central
- * Lok Fu Centre Customer Services Centre
- Contract No. TS P071, Queenway Government Offices Deck Level

Developer / Consultant

Meinhardt

JRP

OAP

Ferrier Chan & **Partners**

Kinetic

Kinetic

Airport Authority

PBA

WSP

HK Housing Authority

A.S.D.



Many more ...

Product ID is

* CLEARLY PRINTED * on outer-jacket as required by lastest no objection letter no. FP 316 / 16 of H.K.F.S.D. for easily process control / supervision in job-site.

* QUALITY GUARANTEED *

Product Comply to BS 476: Parts 6, 7 & 12, Puncture test to H.K.F.S.D. Requirement.

Manufacturer



Phenotherm Asia Ltd.

P.O.BOX 79583, Mongkok, Kin., HONG KONG

website: www.phenotherm.com Email: info@phenotherm.com Sole Agent:



福隆(香港)有限公司 Fook Loong (HK) Ltd.

19/Fl., Skyline Tower, 18 Tong Mi Road, Mongkok, Kin., HONG KONG.

FAX : (852) 2390 6377 (): 2393 7773 Email: flhk@flhk.com.hk

AQUAFORCE

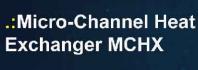
AIR-COOLED SCREW CHILLER 130 - 420 TONS



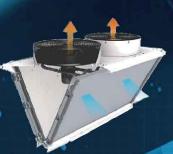


.:High Efficiency

Aquaforce chiller performs at the top of the Eurovent energy efficiency classification - Class A with an average full load COP of 3.2 and average IPLV of 4.2



Made entirely of aluminium, eliminates galvanic currents that are generated when different metals touch in conventional coils, and offers three and a half times higher corrosion resistance than conventional copper/aluminium coil



.:Low Noise

The 4th generation Flying Bird fan with sophisticated aerodynamic shroud displaces the air without turbulence and generates a sound spectrum without irritating low frequency peaks



Ease-of-use

Touch screen user interface provides very operator-friendly easy access to chiller operating information. Up to eight screens can be personalised

Carrier Hong Kong Limited

Tel: (852)-2694-5333 Fax: (852)-2691-2642 www.carrier.com.hk





Better Air Is Our Business®

www.aafasia.com

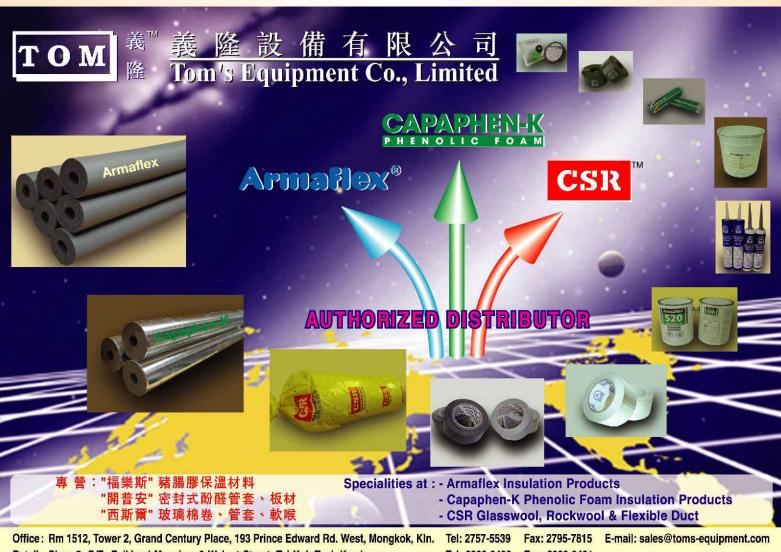
The ultimate solution for the best IAQ from your HVAC system! Panel Type Filters, Bag Type Filters, Washable Filters, HEPA Filters, Carbon Filters, Chemical Filters, Air Purifiers For professional consultation:



Eaxon Environmental Technology Co., Ltd. Tel: (852) 3590 4656 Fax: (852) 8343 0807 Email: info@eaxon-group.com www.eaxon-group.com

Your partner for managing IAQ improvement!

Eaxon is the only specialist provider of American Air Filter solutions in the Hong Kong and Macau Special Administrative Regions.



Retail: Shop 5, G/F., Folkland Mansion, 8 Walnut Street, Tai Kok Tsui, Kowloon.

Tel: 2399-0486 Fax: 2399-0481





Technical Visit to CLP Power Quality Centre

A technical visit to CLP Power Quality Centre in Sham Shui Po was successfully held on June 2, 2006 with 30 ACRA members joined the visit. The objective of the visit is to understand the cause and impact of power quality issues, and the adoption of practical measures to mitigate power quality problems.

Our AGM was held on Jun 6, 2006 at 18/F, Tung Wai Commercial Building, Wanchai. We are pleased to announce that the Council for 2006 to 2008 was nominated and elected as follows:

President : Krueger Engineering (Asia) Ltd.
Chairman : ATAL Engineering Ltd.

Immediate Past President : Trane Hong Kong

Vice President : Shun Hing Electric Works

& Engineering Co., Ltd.

: Young's Engineering Co., Ltd.

Secretary : Winston Air Conditioning &

Engineering (Hong Kong) Co., Ltd.

Treasurer : Southa Co., Ltd.

Council Members (In alphabetical order)

Carrier Hong Kong Ltd.

Johnson Controls Hong Kong Ltd.

Newland Engineering Ltd.

Shinryo (Hong Kong) Ltd.

York International (Northern Asia) Ltd.



Gether-Force A/C Engineering Co., Ltd.

Meco Engineering Co., Ltd.

Ryoden Engineering Co., Ltd.

The Jardine Engineering Corporation Ltd.



Mini-Soccer Competition

Series of mini-soccer competition had been held between June-July 2006. There were 16 teams taken part in the competition, and the results are as follow:

Champion : Trane Hong Kong

1st Runner up : The Jardine Engineering Corporation Ltd.

2nd Runner up : Carrier Hong Kong Ltd.

Technical Visit to Hitachi Chiller Factory

A 2-day visit to the Hitachi Chiller Factory in Guangzhou was held on July 14 and 15 with the support of 33 ACRA members. During the visit, our members had exchanged thoughts and ideas with the manufacturer through touring round the manufacturing plant and R&D facilities.







The ACRA Bowling Competition had been successfully completed on Aug 10. Results of the competition are as follows:

Team Awards

Champion : Newland Engineering Ltd. (Team 1)

1st Runner up : The Jardine Engineering Corporation Ltd.

2nd Runner up : Newland Engineering Ltd. (Team 2)

Special Awards

Highest Single Game : Mr. Au Lam Pui, scored 256,

Youngs Engineering Co., Ltd.(Team 1)

Highest 3 Games Series: Ms. Cindy Lee, scored 648,

NewlandEngineering Ltd. (Team 2)







2006 Mainland and Hong Kong Conference in Urumgi

The MOC 2006 this year was held at Urumqi with "Urban Infrastructure Development and Construction Market Regulation" as the theme of the conference. A team of 23 delegates from HKFEMC and ACRA had attended the conference.

We were pleasure to receive sponsorship from Efatar Engineering Co., Ltd to have the Efatar Cup Golf Competition this year. The Competition was held successfully on Sep 16, 2006 at Shunde Country Garden Golf Club. This is a joint function with Efatar Cup of Mechanical & Electrical Golfers Society. There were 33 participants. The final results are as follows:

Champion : Mr. Denny Mak - Technicon

1st Runner up : Mr. Mok Tai Wai - Luen Ming

2nd Runner up : Mr. Aidan Heung - Southa

Longest Drive : Mr. Simon Cheung - Air Master

Nearest To Pin : Mr. Hymen Chan - Gotop &

: Mr. Athens Cheung - Air Master





57th Anniversary National Dinner

We were glad to join the 57th Anniversary National Dinner on Sep 27, 2006. The dinner was jointly organized by HKFEMC and CITA, and Mr. Hui Si Yan, GBS, JP was invited as the officiating guest.