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Solar Powered Air-Conditioning System

By: Ir Dr. K.L. Chan

To help the city meeting its 2030 climate goals, the Hong Kong Government and the Power Companies signed a new Scheme of Control Agreements (SCAs) and introduced a feed-in tariff (FiT) rebate to encourage consumers to produce renewable energy. Power firms pay businesses and households that invest in solar a long term, pre-announced price for the energy they generate. Everybody can take part in the Scheme by installing a solar and/or wind renewable energy system on their premises. The FiT rates of CLP and HKE are effective from 1 October 2018 and 1 January 2019 respectively. In the past, an average photovoltaic solar panel system capable of producing 1,500 kilowatt hours of electricity costs about HK\$50,000 and requires a return on investment ranging from 35 to 50 years. This constrained the installation of solar PV power in Hong Kong. After the Government has decided to set the FiT rates at \$3, \$4 and \$5 per unit of electricity depending on the generation capacity of the renewable energy system concerned, the rate level will help drastically reduce the payback period of most renewable energy systems to about 10 years and in turn motivate more people and organizations to install the system.

For traditional solar powered air conditioning system, it needs a photovoltaic inverter to convert DC to AC. The capital investment cost is relatively higher and there will be conversion loss too. Nowadays, some manufacturers have already broken through tradition with combining photovoltaic generation with power consumption of air-conditioning system. By adopting advanced photovoltaic direct-driven inverter technology and intelligent management system, the air-conditioning system can achieve power generation by utilizing solar power while consuming electricity and ensure utilization power in priority. Compared with traditional photovoltaic system, low-voltage DC components instead of high voltage AC components are used. Energy wastage during multiple commutation of alternating current and direct current is eliminated, with energy efficiency improved by 6 – 8 % and photovoltaic utilization ratio to 99%. Besides, the Maximum Power Point Tracking (MPPT) technology is integrated with MPPT control function and DC/AC commutating function. It can track and control the maximum utilization of photovoltaic power, and the photovoltaic power will be utilized in prevail.

To make sure instant switchover for punctual power generation, ternary converting technology, consisting of photovoltaic power generation system, load of inverter air conditioner and public electric network, is used to enable two-way flow and multiple-way integration of power at the direct current side. The switchover time between power generation and consumption is less than 10ms, avoiding power wastage due to switchover delay. The system can switch five kinds of operation mode for ensuring stable operation.



Five modes of operation:

1. Air-Conditioning Mode (Traditional)

When the photovoltaic power generation system does not work, the air-conditioning system is powered by the grid.

2. Photovoltaic Power and Grid Generation Mode

When the air conditioning system stops operation, the power generated by the photovoltaic generation system is sent to the grid.

3. Photovoltaic Air Conditioning Mode

When the photovoltaic generated power is equal to the air conditioner consumption demand, the air conditioning system consumes photovoltaic power only.

4. Photovoltaic Air-Conditioning & Grid Generation Mode

When the photovoltaic generated power is more than the air conditioning system consumption demand, photovoltaic power will give priority to the air conditioning system and then the residual power will be sent to the grid in real time.

5. Photovoltaic Air-Conditioning & Grid Consumption Mode

When the photovoltaic generated power is less than the air conditioning system consumption demand, air conditioner will draw power from the grid in addition to the photovoltaic power generated system.

At grid generation mode, the photovoltaic generation system can generate power to the grid. The Power Companies will purchase electricity generated by the grid-connected renewable energy power systems from customers at FiT rates.

Integrated management system that is integrated with PV Microgrid and HVAC Group Control. Through the analysis on the relationship between solar radiation and PV power generation and the potential matching relation between AC load and solar radiation, system can adjust the control strategy automatically, which means that system can adjust the PV power generation with the operation of HVAC equipment.

The photovoltaic generation system cannot connected to single/multi split, multi VRF and water cooled centrifugal chiller systems. For chiller system, Pulse Amplitude and Width Modulation (PAWM) interleaving control technology is applied to deal with the quick change of photovoltaic voltage and the dynamic requirement of load of centrifugal compressor in real-time to realize the self-adaptation control of frequency modulation and voltage regulation of inverter centrifugal compressor for the stable and reliable operation of system. When photovoltaic generation system is used in chiller system, large quantity (over 1,000 nos.) of photovoltaic plates will be installed to generate enough power. It requires a large piece of land or roof to install the PV plates. Regarding the installation guidelines for solar photovoltaic system, please kindly visit the following website at https://re.emsd.gov.hk/english/fit/useful_links/files/PVGuidanceNotes.pdf.

AC Type	Cooling Capacity	Power Input (KW)	COP	No. of Solar Panel	Min. No. of Panel
RAC	1.5 HP	1.15	3.1	5	2
VRF Side Discharge	5.0 HP	3.6	3.9	14	5
VRF Top Discharge	10 HP	6.25	4.5	24	8
Centrifugal Chiller	500 RT	266	6.61	1024	340



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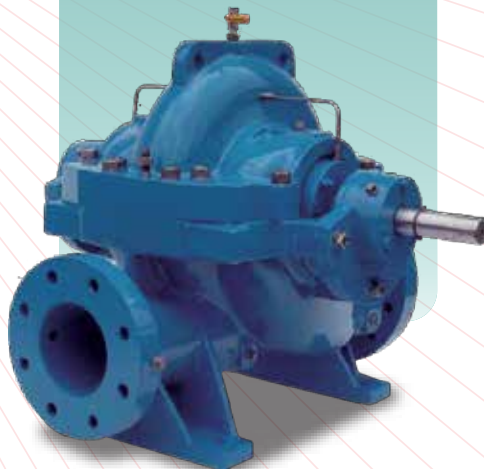
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APEX HT Series

Horizontal or Vertical Split Casing Pump



APEX MQV Series

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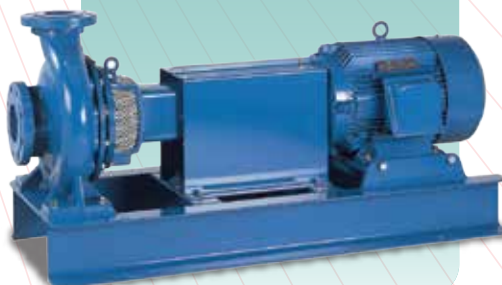
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Multistage Pump (Stamping)



APEX TD Series

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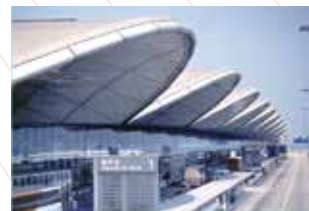
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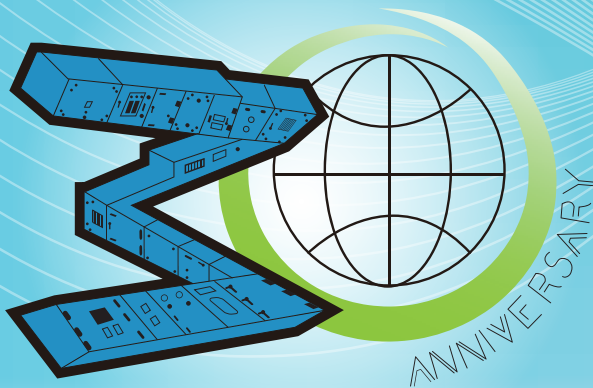
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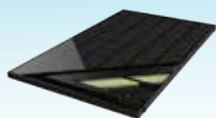
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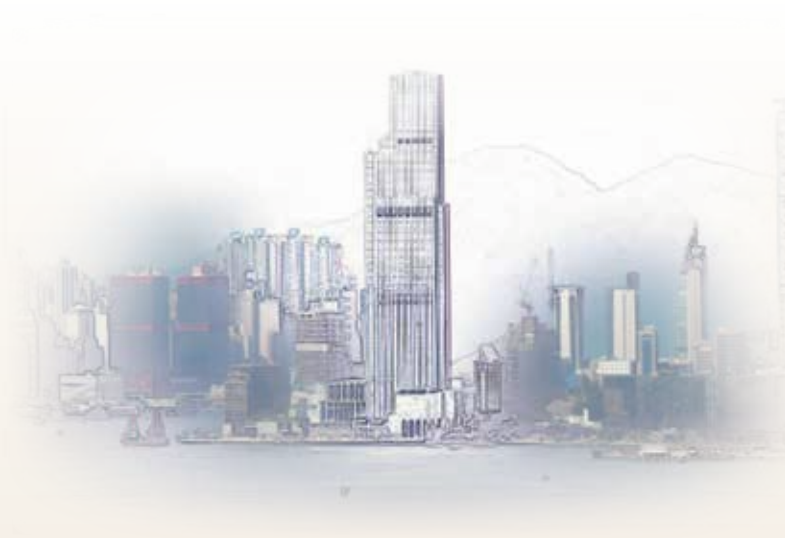
Energy Efficient

- Motor efficiency achieve IE4
- VSD integrated into the fan for optimal efficiency



New World Centre

By: by Clive Yip, HH Yeung and TM Fung



Project Name	: New World Centre Remodeling, Block H3, KIL9844 18-24 Salisbury Road, Tsim Sha Tsui, Kowloon
Member's Role in the Project	: Heating, Ventilation and Air –conditioning Installation and Central Chiller Plants Installation
Completion Year	: 2018
Member/ Company Name	: Young's Engineering Co., Ltd.

New World Centre Remodeling project is a composite development at Tsim Sha Tsui waterfront which consist of three portions - H3, H2 and Palace Mall. Young's Engineering Co., Ltd. was honorably awarded the H3 - HVAC Installation and Central Chiller Plants Installation in 2013 and 2014 respectively. Block H3 is a new 65-storey complex building of 277.5m in height and 143,025 m² GFA with Podium, Office, Hotel and Apartments expected to fully open in 2019.

Central Chiller Plants are sea water cooled consisting of two centralized chilled water plants, Eastern and Western, with total cooling capacity of 13,600TR located at Basement 4 to supply chilled water and heating water to H3, H2 and Palace Mall. Eastern Plant provides chilled water and heating water to Hotel areas and Western plant provide chilled water to Office and Arcade. Eastern chiller plant composes of 2 x 1,400TR VFD Centrifugal Chiller, 2 x 700TR VFD Centrifugal Chiller and 350TR Oil Free Chiller with total cooling capacity of 4,550TR. Western chiller plant compose of 2 x 2,100TR 11kV Centrifugal Chiller, 1 x 2,100TR VFD Centrifugal Chiller, 2 x 1,200TR VFD Centrifugal Chiller and 350TR Oil Free Chiller with total cooling capacity of 9,050TR.

The state-of-art energy algorithms are implemented to operate in both heavy and light operating modes with swing chillers for the chiller plants. "Variable-primary-flow" chilled water system and Variable Condenser Flow system are utilized to enhance the system efficient." Chiller plant control is employed for plant optimization by collecting and processing the performance and operations data of chillers and chilled water pumps and commanding in real time to modulate the control levels to all VFDs, pumps and number of chillers.



The most energy efficient solution for production of hot water in the market today is heat pump. 3 sets of 700kW and 2 sets of 466 kW water to water heat pumps, with heat source from sea water, are employed to generate 55C° hot water for space heating system and pre-heating provided to the domestic water supply system. The cooled sea water from the heat pumps is re-used to mix with intake sea water supplying to the chillers for cooling and capturing the best chiller efficiency.

Block H3 involves the supply and installation of HVAC systems for 14 floors of office with 2,553 m² GFA each floor, 17 floors of hotel guest rooms and 23 floors of Hotel Apartment rooms with Presidential Suites. Hotel FOH area, Reception, Ball Room and Restaurants are located at Podium floors, whereas Hotel / Office BOH, Facilities Plant Rooms area and Carpark Area at Basement Floors. Chilled water supply and return temperature from both central plants are 6C° and 12C° respectively. For chilled water to Hotel floors at Tower portion, heat exchangers are located at 23/F mechanical floors serves for pressure break.

To assure the reliability of air conditioning service, there are four (4) air cooled chiller plants with individual emergency power backup serving Office Trading Floor, Office Server Rooms, Hotel Ball Room and Hotel Presidential Suites. They are connected to chilled water distribution system with motorized isolation valves for emergency operation in case of failure of any of the system.

For Office floors, two VAHUs provided for each office floor and connected to VAV boxes for zone cooling. Electrical duct heater provided for perimeter zone heating. Primary air units completed with electrical duct heater supplying pretreated air to every AHU Room via vertical duct risers and regulated by CAV terminated to AHU mixing plenum.

Pre-treated air flow rate are controlled by CO₂ sensors located at office area for demand control ventilation. Bio-oxygen generators are installed in every office AHU and PAU for air purification.



◀ ▼ Eastern Chiller Plant Room

Hotel Guest rooms and Hotel Apartment rooms are served by 4-pipes fan coil system. Primary air units completed with heating coil to supply pretreated air to each fan coil unit. Bio-oxygen generator are installed for hotel PAU for air purification.



Fire safety is of vital importance for this skyscraper in dense urban area. Dynamic Smoke Extraction System (SES), Staircase Pressurization System (SPS) and Ventilation and Air Conditioning Control System (V/AC) are fully utilized for smoke control in HVAC. Dynamic smoke extraction system provided at basement area, ballroom, hotel common corridors and hotel apartment common corridors. 5 sets of SES serve basement area are designed by fire engineering approach. 6 sets of SES serve basement area, 1 set of serve ballroom and 5 sets of serve hotel common corridors and hotel apartment common corridors are designed by prescriptive approach. 4-hours and 2-hours smoke extraction duct system are adopted for SES serving basement area and above ground area (i.e. ballroom, hotel common

corridors and hotel apartment common corridors) respectively. The systems are operated either by the building automatic fire alarm system or supervisory panel at the F.S. Control Room. Dual purposes duct risers are provided with changeover Motorized Fire and Smoke Damper (MSFD) at the plant rooms for isolation of the normal ventilation and air conditioning plant during fire mode operation. MSFD provided at each make up and smoke exhaust connections on each floor or zone. SES are controlled by multiplex system with zoning fire signals fed by F.S. AFA panel.

Staircase Pressurization System (SPS) provided for MOE and firefighting staircase serving basement, podium and tower. 7 sets of SPS (Class A for MOE) serving podium, office and hotel floor, and 5 sets of SPS (Class B for firefighting) serving basement, office and hotel floor. The system is operated either by the building automatic fire alarm system or supervisory panel at the F.S. Control Room. By-pass damper is utilized for each lobby and staircase pressure control. Air relief path is maintained by opening the MSFD in protected duct shaft on appropriate floor while staircase / lobby doors are being opened.

V/AC system adopts Method "A" & "D" for Hotel and Hotel Apartment Area and Method "B" for Office, Podium and Basement. Probe type smoke detector provided for AHU and ventilation fan where Method "B" is required and fire alarm cutout signals are provided by FS Sub-contractor for Method "A" & "D"



▲ Western Chiller Plant Room

The Central Chiller Plants supplies chilled water and conveys it to the buildings via chilled water pipe network. As benefit of the development located along the seafront of Victoria Harbour, the project adopted direct seawater cooling system for the central chiller plants for providing air conditioning for mega development. The once-through water cooling system uses seawater to take away heat of condenser and eventually discharge to the sea. The direct sea water cooled chiller plant is an energy-efficient air-conditioning system that consumes much less electricity than a water cooled air-conditioning systems using fresh water cooling towers. To enhance energy efficient, variable flow high efficient chillers are adopted in this project, the coefficient of performance (COP) of chillers is up to over 6 in full-load condition. To achieve better energy performance of the chiller in part-load condition, most of chillers are equipped with variable frequency drives (VFDs) to regulate chiller output to match the cooling load.

2 nos. DN800 intake pipes are extended outside building boundary and submerged in shore for sea water intake, to serve the whole sea water system (Eastern Plant, Western Plan, ICHK). As some portion of intake pipes run above sea level, water priming to fill these suction pipes above sea level is required for initial start of sea water pumps. A vacuum pump unit is employed to fill water into suction pipes for priming. Once priming completed, running of vacuum pump is no more necessary.

Since optimization of chiller plant control is most effective way in energy saving, a dedicated plant control system is employed to monitor and manage the day and night operations with various operating profile. Utilizing the data collected from numerous sensors and equipment, such as chilled water and condensing water temperatures, flow rates, chiller partial load percentage, and calculated the cooling load, the optimization software program monitor all these variable data and directs the adjustments needed to maximize the system performance. The software has



information of compressor and pump performance characteristics, which it uses in real time to modulate control levels to all VFDs, pumps and number of chillers. "Variable-primary-flow" chilled water system is also fully utilized, unlike a "decoupled" system that has primary pumps to make constant water flow through each chiller evaporator and has secondary pumps for distribution. The primary pumping system functions as both the production and distribution systems, varies its pumping capacity to maintain a differential pressure across the chilled water loop, which saves pump energy at part load conditions.

The most energy efficient solutions for heating on the market today is heat pump. Instead of using electric water heater, 3 sets of 700kW and 2 sets of 466 kW sea water source water to water heat pumps are employed to generate 55 deg C hot water for space heating system and a pre-heating of domestic water supply system. The cooled sea water from evaporator of heat pumps is re-used to mix with sea water for supply to chiller's condenser.

To maintain high efficiency of the sea water cooled chillers, an automatic tube cleaning system is employed for scale prevention of condenser tube of chiller. The specific cleaning balls periodically wipe the inner surface of the chiller condenser tubes, to maintaining its clean surface condition, make heat exchange more efficient and reduce the chiller down times.

BIM modeling was utilized to locate and resolve any conflicts on top of CSD drawings for Office Floors. Both BEAM Plus and LEED are achieved at the same time. For BEAM Plus certification, the rating to be achieved is Platinum for all H3 area. On the other hand, LEED certification are Platinum for Office (7/F to 21/F) and Gold for H3 Remaining Area. IAQ Objectives are aimed at meeting the Good Class requirement.

In meeting the energy saving initiatives, the selection of equipment / material has fulfilled the requirements in Building Energy Code 2012. Apart from VSD chillers and "Variable-primary-flow" chilled water system, all water pumps, primary air handling units, air handling units for office area, central ventilation fans and kitchen fans are equipped with variable frequency drives for optimum operations and energy savings to the best practical level.



Western Sea Water Pump Room ►



◀ Eastern Sea Water Pump Room





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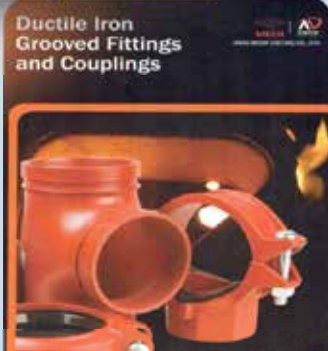
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Training Course on HVAC System & Product Updates 2018

On every Monday from 8th to 29th October 2018, ACRA has organized the annual Training Course on HVAC System and Product Updates which attracted numerous practitioners and young engineers to acquire the latest trend information in the design, installation and maintenance of HVAC System relating to the most concerned factor nowadays – environmental/energy efficiency. Great thanks to the esteemed guest speakers from our company members for offering some of the most professional and informative presentations for our air conditioning industry.



Next-Gen Chillers and their Application Considerations
Guest Speakers: Dr. Philip Yu and Ir K T Cheuk from Trane Hong Kong



Rules and Regulation of Statutory Inspection -Smoke Extraction System and Staircase Pressurization System
Guest Speaker: Ir Albert Yau from Fire Safety Consultants Limited

Radiant Chilled Ceiling and Chilled Beam Systems
Guest Speaker: Ir Allan JONES from Barcol-Air Limited



Applying Big Data Analytics for Energy Efficiency and Retro-Commissioning; Wireless Solution for Building System
Guest Speaker: Dr. Pan LEE from ATAL Building Services Engineering Ltd., and Ir Glorisun WONG from Trane Hong Kong

Bowling Competition (Hilti Cup)

Sponsored by Hilti Hong Kong, 15 strong teams from our valued members were formed to compete for the championship of Hilti Cup at the Bowling Competition on 4 May 2018. The thrilling game was completed in joyful success with the award presentation to the outstanding winners by our Vice President, Mr. Franklin Lau and Sport Committee Chairman, Mr. Bill Cheung.



Team Awards

Champion

Newland Engineering Ltd. – Team A
(1,650 pins)

1st Runner-up

ATAL Building Services Eng. Ltd. – Team A
(1,574 pins)

2nd Runner-up

ATAL Building Services Eng. Ltd. – Team B
(1,533 pins)



Sponsor: Hilti Hong Kong

Special Awards

Highest Single Game

ATAL Building Services Eng Ltd. – Team B
Mr. Law Kwok Wai
(207 pins)

Highest 3 Games

Newland Engineering Ltd. – Team A
Mr. Mars Chan
(632 pins)



First Runner Up –
ATAL Building Services Eng. Ltd. Team A



Second Runner Up
ATAL Building Services Eng. Ltd. – Team B



Champion –
Newland Engineering Ltd. – Team A

Highest 3 Games:
Newland Engineering Ltd.
(Team A) –
Mr. Mars Chan



Highest Single Game:
ATAL Building Services Eng Ltd.
(Team B) –
Mr. Law Kwok Wai

Annual General Meeting

The ACRA Annual General Meeting was held on 1 June 2018 of which reports have been presented by our President – Mr. CF Wu, Chairman – Mr. Franklin Lau, and Treasurer – Mr. MT Law to conclude the momentous achievements, activities and financial status in the last fiscal year(2017 - 2018). As it is the end of the term of Council Members (Year 2016 – 2018), Mr. CF Wu would like to express his sincere gratitude to all council members, committee members and stakeholders for the contribution of the past two years. Undoubtedly, our newly elected President, Mr. Antonio Chan and the new office bearers will continuously lead ACRA to a more prosperous and successful future ahead.



ACRA Cocktail Reception

ACRA is pleased to present our first Cocktail Reception held on 5 October 2018 which attracted over 200 respected personnel from the industry to network and share experience with one another in this relaxing environment. We are glad to have invited the Director of EMSD, Mr. Sit Wing-Hang, JP as our Guest of Honour for this significant event. In addition, it provides the opportunity for our council members to comprehend the concerns from different company members so that ACRA could make advancement to better serve all types of business in the HVAC industry.



The Producer Responsibility Scheme (PRS) on Waste Electrical and Electronic Equipment (WEEE) Briefing

Recent awareness has been drawn on the proper recycling and disposal for Waste Electrical and Electronic Equipment (WEEE) in Hong Kong. ACRA together with Environmental Protection Department (EPD) have organized a briefing on the Producer Responsibility Scheme (PRS) which covers eight types of equipment including air-conditioners (both window-type and split type), refrigerators, etc. (collectively referred to as "regulated electrical equipment" or REE) on 5 July 2018. The main purpose of this briefing was to introduce the scheme and necessary procedures to REE producers and vendors by 歐綠保綜合環保有限公司 (ALBA), the company working with EPD for this recycling/disposal services. Numerous company members have attended the briefing to obtain the details for the waste handling of REE in order to comply with this new legislation.



Horse Racing Night

One of our key events of the year – the Horse Racing Night was held at the Happy Valley Racecourse on 11 July 2018. All participated members had a wonderful evening from the excitement of the horse racing game complemented with fine wine and delicacies. Special thanks to our council members, Mr. Daniel Chong and Mr. TS Tsang, for the kind arrangement of this responsive event annually, and congratulations to our four lucky winners for the Horse Racing Competition as follows.



Champion : Ms. Isabel Wong, Wo Lee Steel Company

1st Runner up : Mr. Tony Ng, Welcome Air-Tech Ltd.

2nd Runner up : Mr. Clive Li, ATAL Engineering Limited

3rd Runner up : Ms. Karen Ho, ATAL Engineering Limited

Caring Event

Fun Day with Children 孩子同樂日



The Children Fun Day this year was jointly organized by ACRA and Open Door Ministries (開心社區服務) on 28 July 2018 to show our passionate attention for children from low-income households. Approx. 40 children and their parents joined these outdoor activities to visit the Tung Chung Fire Station and Nissin My Cup Noodle Factory at the airport.

We are delighted that over 20 volunteers from 11 company members provided their amazing support to succeed this meaningful event. The children had an entertaining day with the firemen illustrating their fire-fighting equipment and operation in addition to tailor-making cup noodle from Nissin. Our Chairman of ACRA Caring Committee, Mr. Raymond Synn would like to offer his greatest appreciation to Open Door Ministries as well as the company sponsors and volunteers for the countless effort.



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Raising Engineering Limited

Welcome Air-Tech Ltd

White Hippo Limited

Wo Lee Steel Company Limited



Training for Workers in Handling HFC & Blend Type Refrigerants

On 7 August 2018 and 5 September 2018, ACRA and VTC jointly organized a Training for Workers in Handling HFC & Blend Type Refrigerants. The training comprises of a classroom lecture and a practical workshop training in one full-day at the Institute of Vocational Education which received overwhelming response. This recognized training assists the Refrigerant Workers to provide qualified service for refrigeration equipment in order to cope with the latest market trend for ArchSD contracts.



Next Generation Refrigerants Development Class

Jointly organized by ACRA, EMSD, and VTC Pro-Act, the Next Generation Refrigerants Development Class was held at VTC Pro-Act Training and Development Centre on 9 Aug 2018 and 1 Nov 2018. With apprehensions on ozone depletion and global warming, this course allows the practitioners to review the refrigerant selections including next generation refrigerants in considerations of environmental and safety impact as well as its efficiency, flammability, changes to equipment, components and working procedures.



Designation of Our Council Member

Congratulations to our council member, Ms. Fanny Chan, who has become the President of the Lions Club of Central on 3 June 2018.



New Members

May to Oct 2018

1	Luen Fat Air Condition (Holding) Trading & Engineering Co., Ltd.	Jul 2018
2	CMA Testing & Certification Laboratories Limited	Jul 2018
3	ABB (Hong Kong) Limited	Sep 2018
4	Glory Air Conditioning Limited	Sep 2018
5	InnoTec Engineering Ltd.	Oct 2018



MEMBER LIST



	Company Name		Contact Number	Website / Email	Trade
ACRA Fellow Members	ATAL Engineering Limited	安樂工程有限公司	2565 3399	www.atal.com.hk	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
	Carrier Hong Kong Limited	開利 (香港) 有限公司	2694 5618	www.carrier.com.hk	
	Krueger Engineering (Asia) Limited	高雅機電工程有限公司	2860 7333	www.krueger.com.hk	
	Newland Engineering Limited	新陸工程有限公司	2967 8620	moshiu@newland.com.hk	
	REC Engineering Company Limited	盈電工程有限公司	2619 8888	www.rec-eng.com	
	Shinryo (Hong Kong) Limited	新菱工程香港有限公司	2237 8624	www.shinryo.com	
	Shun Hing Engineering Contracting Company Limited	信興機電工程有限公司	2419 8282	www.shecon.com	
	The Jardine Engineering Corporation Limited	怡和機器有限公司	2807 4511	www.jec.com	
	Trane Hong Kong	特靈香港	3128 4756	www.tranehk.com	
	Winston Air Conditioning & Engineering (Hong Kong) Company Limited	永通冷氣工程 (香港) 有限公司	2764 1200	www.winston-hk.com	
	York International (Northern Asia) Limited	約克國際 (北亞) 有限公司	2590 0012	www.johnsoncontrols.com	
	Young's Engineering Company Limited	景福工程有限公司	2235 0900	www.youngs.com.hk	
ACRA Ordinary Members	Alliance Contracting Company Limited	聯和承造有限公司	2891 9083	www.alcc.com.hk	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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Laboratory Testing

Electricity Supply



Company Name	Contact Number	Website / Email	Trade	
Gotop Engineering (HK) Limited	高陞工程 (香港) 有限公司	2459 3038	gotopco@yahoo.com.hk	●
Great Top Engineering Limited	宏鋒工程有限公司	2345 2219	general@greattop.com.hk	●
GRUNDFOS Pumps (Hong Kong) Ltd.	高福水泵 (香港) 有限公司	3540 0300	www.grundfos.com	●
Hang Ji Industries International Co., Ltd.	恒基工貿國際有限公司	2721 6129	www.hangji.com	●
Hensen System Engineering Limited	豪信系統工程有限公司	2884 9001	cecil@hensen.com.hk	●
Hilti (HK) Limited	喜利得 (香港) 有限公司	2773 4705	www.hilti.com.hk	●
Hi Tak Thermal & Acoustic Insulation Eng. Limited	喜德保溫隔聲工程有限公司	2770 7703	www.hitakinsul.com	●
Hofmann Construction Material Ltd.	香港好夫曼建材有限公司	3157 1841	www.hofmannhq.com	●
Honest Air Conditioning Limited	明發冷氣有限公司	2396 8108	aircond@netvigator.com	●
H.W. International Air-Conditioning Limited	豪華國際空調有限公司	2796 8888	info@hooair.com	●
IES Engineering (Hong Kong) Limited	恒豐工程 (香港) 有限公司	2992 0830	www.ieshk.com.hk	●
InnoTec Engineering Ltd.	科技工程有限公司	3706 6333	info@innoteceng.com	●
Intelligent Technologies Limited	毅智科技發展有限公司	2301 4868	info@intelligent-net.com	●
Jade Star Engineering Limited	捷陞工程有限公司	3998 3256	jadestarkh@yahoo.com.hk	●
JC (HK) Engineering Limited	悅峰工程有限公司	2898 9885	jc.hk.eng@gmail.com	●
J & J Network Engineering Company Limited	信卓網絡工程有限公司	3579 5263	www.jjnetwork.com.hk	●
Jinchat Engineering (HK) Company Limited	正卓工程 (香港) 有限公司	2687 1755	jyin@jinchat.com	●
Jun Feng Company Limited	駿峯有限公司	2707 3088	www.junfeng.com.hk	●
Keio Engineering Company Limited	京工工程有限公司	2695 8872	www.keio.com.hk	●
Kembla (Hong Kong) Limited	金特霸 (香港) 有限公司	2528 0999	www.kembla.com.hk	●
Kin Wo A/C Engineering Limited	健和冷氣工程有限公司	2398 0157	kw@kinwo.com.hk	●
Kinetics Noise Control (Asia) Limited	建力聲震控制 (亞洲) 有限公司	2191 2488	www.kineticsnoise.com	●
Kings View Airconditioning Engineering Co., Ltd.	景匯空調工程維修有限公司	2796 2417	admin@kingsview.com.hk	●
K-Flex (Hong Kong) Insulation Company Limited	凱門 (香港) 保溫材料有限公司	2668 5202	www.k-flex.com	●
KSB Limited	凱士比有限公司	2147 1226	philip.chow@ksb.com.hk	●
K.Y.H. Steel Company Limited	金源行鐵倉有限公司	3473 2332	www.kyh.com.hk	●
Laser Resources (Asia) Company Limited	全美 (亞洲) 有限公司	2516 7500	laasiah@netvigator.com	●
LeBlanc Water Treatment & Chemicals Limited	利邦化工水處理有限公司	2408 2000	www.leblanc.com.hk	●
Lee Tack Engineering Company Limited	李德工程有限公司	2305 3111	ltec@leetack.com.hk	●
Legend Engineering Company Limited	卓越聲控工程有限公司	2815 0928	info@legendjt.com.hk	●
Lifa Air Limited	麗風空氣有限公司	2511 7076	www.lifa-air.com	●
Life Air IAQ Limited	活力空氣品質科技有限公司	3527 0106	winston@lifeairiaq.com	●
Link The Best Company Limited	必發 (香港) 有限公司	2568 4092	sales@linkthebest.com.hk	●
Luen Fat Air Condition (Holding) Trading & Engineering Co., Ltd.	聯發冷氣 (集團) 貿易工程有限公司	2345 0280	www.luenfat.com	●
Luen Ming Pengshan Air Conditioning Factory Ltd.	聯明坪山冷氣製品廠有限公司	2797 2168	www.luenming.com	●
Mason Industries (HK) Limited	梅森實業有限公司	2967 9639	www.mason-hk.com	●
Maxwell Electrical Asia Ltd.	美基電器亞洲有限公司	3583 5088	www.maxwell-asia.com	●
Mesan Fiberglass Engineering (International) Limited	明新玻璃纖維工程 (國際) 有限公司	2787 5717	www.mesanct.com	●
Mitsubishi Electric (Hong Kong) Limited	三菱電機 (香港) 有限公司	2887 4575	www.mitsubishi-ryoden.com.hk	●
NAP Acoustics (Far East) Limited	NAP 聲學工程 (遠東) 有限公司	2866 2886	www.napacoustics.com.hk	●
New Way Engineering Company Limited	新法機械有限公司	2325 6892	www.newway.com.hk	●
Oxprime (International) Limited	鑫輝 (國際) 有限公司	2590 8088	info@oxprime.com	●
Pacific Sense Enterprises Limited	柏昇企業有限公司	3749 5272	www.pacificsense.com.hk	●
Paul Y. (E&M) Contractors Limited	保華機電工程有限公司	2831 8338	www.pyengineering.com	●
Peterson Engineering Limited	必德信工程有限公司	2365 0372	stso@peterson.com.hk	●
PowerTech IPC Company Limited	科力發展有限公司	3105 3928	www.powertechipc.com	●
Powers Technical Services Limited	寶華技術服務有限公司	2770 2110	powers.pts@gmail.com	●
Practical Engineering (Hong Kong) Company Limited	百利高工程 (香港) 有限公司	2402 2772	practical@practical.hk	●
Program Contractors Ltd.	葆岡工程有限公司	2326 8020	program@program.com.hk	●
Pyrofoe Engineers Limited	衛安工程有限公司	2388 8038	www.pyrofoe.com.hk	●
Ready Electrical Metal Work Limited	全達電器金屬製品有限公司	2898 8623	kw_leung@ready-group.com	●
REC Green Technologies Company Limited	盈電環保科技有限公司	2619 8817	www.yaulee.com	●
Regin Controls Hong Kong Limited	瑞晶溫控香港有限公司	2407 0281	saleshk@regin.se	●
Ritech Engineering & Supply Company Limited	偉達工程材料有限公司	2410 1819	www.ritech-hk.com	●
Samsung Electronics H.K. Company Limited	三星電子香港有限公司	2862 6300	www.samsung.com.hk	●
San Yik Air Conditioning Engineering Company Limited	新益冷氣工程有限公司	3565 5812	www.sanyikgroup.com	●
Sanby Trading Company Limited	聖備貿易有限公司	2573 4219	www.sanby.com	●
Savills Engineering Limited	第一太平戴維斯設備工程有限公司	2534 1688	pwong@savills.com.hk	●
Shenling Environmental Systems (Hong Kong) Ltd.	申菱環境系統 (香港) 有限公司	2603 0002	www.shenling.com	●
Shun Hing E & M Engineering Limited	順興機電工程有限公司	2387 2882	project@shunhingeng.com	●
Shun Hing Electric Service Centre Limited	信興電器服務中心有限公司	2406 5333	www.shunhing-service.com	●
Shun Hing Electronic Trading Co. Ltd.	信興電器貿易有限公司	2733 3888	www.shunhinggroup.com	●
Shun Tung Engineering Company Limited	順通冷氣電機工程有限公司	2633 6866	gabriel@shun-tung.com	●
Sing Kin Limited	陸建有限公司	2333 1518	singkin@gmail.com	●
Smartech HVAC & Engineering Limited	智能空調工程有限公司	2521 9768	info@smartech-hvac.com.hk	●
Southa Engineering Limited	南龍工程有限公司	2963 7241	www.southa.com	●
Stars (Hong Kong) A/C & R Company Limited	恆星 (香港) 冷熱設備有限公司	6116 7832	stanley_yuen@hstars.com.cn	●
Sun First International Limited	昇福國際有限公司	2807 7888	www.sunfirst.com.hk	●
Superpower Pumping Engineering Company Limited	力霸水泵機械工程有限公司	2745 3562	www.sppump.com	●
Sustainable Energy Limited	恒澤節能有限公司	2332 3077	www.sustaine.com.hk	●
Target Energy Solutions Limited	達標能源管理有限公司	2358 9903	www.targetensol.com	●
Teembase Development Limited	天基發展有限公司	2554 6263	www.teembase.com	●
Tesa Tape (Hong Kong) Limited	德莎膠帶 (香港) 有限公司	2583 9980	www.tesa.com	●
Thermtch Building Products Limited	泛達建築材料有限公司	2756 3837	thermbpl@netvigator.com	●
Trisun Air Conditioning System Limited	三陽系統有限公司	2377 1618	enquiry@trisun.com.hk	●
Tinwood Pacific Limited	天匯太平洋有限公司	6325 1197	www.sinro.com	●
Tomi Fuji EMC Limited	富勝能源管理有限公司	2432 0170	www.tomifuji.com.hk	●
Tom's Equipment Company Limited	義隆設備有限公司	2757 5539	tom@toms-equipment.com	●
TROX Hong Kong Limited	妥思香港有限公司	2861 2261	www.troxapo.com	●
Tung Shing Hardware Co., Ltd.	東成五金有限公司	2626 9983	www.tungshinghardware.com.hk	●
Union (Luen Hop) Refrigeration Co., Ltd.	聯合冷氣工程有限公司	2627 4600	unionlh@bizentvigator.com	●
United Controls (Hong Kong) Limited	統一儀器 (香港) 有限公司	2556 1001	www.ucl668.com	●
Victaulic Hong Kong Ltd.	維陸工程有限公司	6898 6823	www.victaulic.com	●
Victory Engineering Service Company Limited	偉保工程有限公司	2979 4068	pamela@ves.hk	●
Viewco Building Services & Engineering Co., Ltd.	偉聯空調設備有限公司	2543 0610	engineering@viewco.com.hk	●
Wai Luen Air Conditioning Limited	華順工程有限公司	2890 9321	garychan@wailuenhk.com	●
Wardson Engineering Limited	華順工程有限公司	2329 8268	wsengltd@yahoo.com.hk	●
White Hippo Limited	白河馬企業有限公司	2303 1318	www.kshop310.hk	●
Wing Shing Air-Flow Company Limited	永盛風咀製品廠有限公司	2792 6331	accounting@wingshing-hvac.com	●
Wo Lee Steel Company	和利鋼鐵有限公司	2393 0131	www.wolee.com	●
Wolter Asia Limited	華德亞洲有限公司	2456 0198	info@wolter.com.hk	●
Wysermann Company Limited	威士文有限公司	2614 2213	wysermann@wysermann.com.hk	●
Yin On Trading Limited	賢安建材貿易有限公司	2572 7110	office@yinson.com.hk	●
Yordland Engineering Limited	日島工程有限公司	2362 2186	www.yordland.com	●
York Choi Industrial Limited	旭彩實業有限公司	2795 8286	www.yorkchoi.com	●
Yuen Fong Air-Condition Products (HK) Limited	圓方空調設備製品 (香港) 有限公司	2880 5880	yuenfongaircondition@hotmail.com	●
Zenith International Enterprise Ltd.	盛豐國際企業有限公司	2815 5852	www.ebara.com.hk	●

PhenothermTM Class '0' Rigid Phenolic Foam Pipe Support, Pipe, Duct Support & Board Insulation



Sheet Metal
Ductwork Insulation



Chilled Water
Pipework Insulation



Cutted 90° Pipe Elbow
Insulation

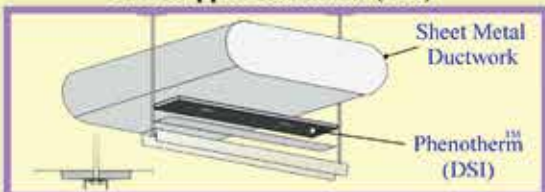


ISO 9001:2015
Certified By BSI
Cert. No. FM 40753

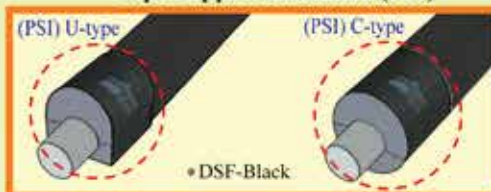
Insulation Slab for Raised-floor



Duct Support Insulation (DSI)



Pipe Support Insulation (PSI)



Goldin Financial
Global Centre



Year of Completion : 2015

Sheng Kung Hui
Holy Cross Primary School



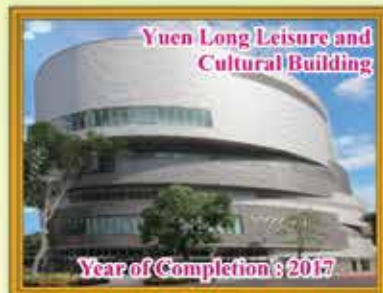
Year of Completion : 2016

Central Police Station
Revitalisation
(Tai Kwun)



Year of Completion : 2016

Yuen Long Leisure and
Cultural Building



Year of Completion : 2017

PhenothermTM Rigid Phenolic Foam Insulation is the **PROFESSIONAL'S CHOICE** for Pipework & Ductwork in HVAC/R System

- ★ Rigid insulation ensure the final performance, **NO COMPROMISE ON WALL THICKNESS** as other flexible insulation materials.
- ★ Pipe insulation **WALL THICKNESS IN SINGLE LAYER** from 15~150mm.
- ★ **NO AIR-GAP** after proper installation, insulation ID cut to top-fit pipe OD.
- ★ **PERFECT HARMONY** with pipe support in same materials.
- ★ **OPTIONAL SURFACE COLOUR** such as Aluminium, White or Black, can match colour with most of the insulation materials in market.
- ★ **EASY & FAST INSTALLATION** (As Easy As ABC)

- Apply adhesive.
- Snap-on Pipe Support/Pipe Insulation.
- Seal with Aluminium Tape.

EASY JOB

ADVANTAGE
Labour saving + Time saving
= Money saving !

2019 onward...

1994



General Cancer Centre,
Prince of Wales Hospital
Shatin, N.T.
Year of Completion : 1994



International Financial Centre
Phase I (IFC-I)
South West Tower at
Hong Kong Station, H.K.
Year of Completion : 1998



Nina Tower
Tsuen Wan, N.T.
Year of Completion : 2007



Central Mail Centre
Kowloon Bay, K.L.N.
Year of Completion : 2013



Passenger Clearance Building,
Hong Kong Boundary Crossing Facilities,
Hong Kong-Zhuhai-Macao Bridge.
Year of Completion : 2018

SOLE AGENT / STOCKIST :



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