

INSIDE THIS ISSUE

PG. 2

ASHRAE REGION XIII -
22ND CHAPTERS
REGIONAL CONFERENCE

PG. 6

SURUHANJAYA TENAGA
COURTESY VISIT

PG. 8

THE ASHRAE MALAYSIA
CHAPTER
DEN & EVELYN LOW
SCHOLARSHIP

WE ARE PROUD TO BE THE HOST FOR

ASHRAE REGION XIII - 22ND CHAPTERS REGIONAL CONFERENCE

WWW.JOHNKONG.COM | KLCC TWIN TOWERS

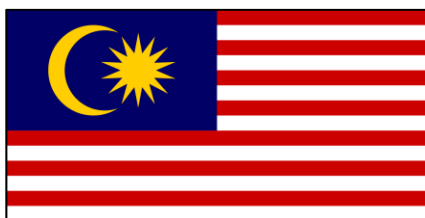


**ASHRAE INTERNSHIP
EXPERIENCE
PAGE 7**

Technical Article:

Cooling Tower with EC Fan application

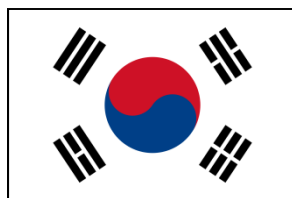
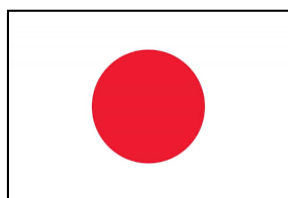
Page 4



ASHRAE REGION XIII CHAPTERS REGIONAL CONFERENCE 2019

23 AUGUST – 24 AUGUST 2019

SUNWAY RESORT HOTEL & SPA



CRC 2019 Registration Package

Type of Package	Package Inclusive Of	Before or On 15.6.2019, (US\$)	On-site or After 15.6.2019, (US\$)
A	Registration, Technical Seminar and Presidential Luncheon.	180	200
B	Registration, Presidential Luncheon, Business Sessions 1 & 2, Orientation & Caucus Session (Delegates & Alternates Only), Banquet Dinner, Executive & Caucus Session (Delegates & Alternates Only), Committee Workshops, Host Chapter Luncheon and Award Presentation.	350	400
C	Registration, Technical Seminar, Presidential Luncheon, Business Sessions 1 & 2, Orientation & Caucus Session (Delegates & Alternates Only), Banquet Dinner, Executive & Caucus Session (Delegates & Alternates Only), Committee Workshops, Host Chapter Luncheon and Award Presentation. (Full Package)	430	480
D	Presidential Luncheon on 23 August 2019 Only.	85	100
E	Banquet Dinner on 23 August 2019 Only.	100	120
F	Host Chapter Luncheon on 24 August 2019 Only.	85	100
G	Students' Program includes Registration, Technical Seminar, Banquet Dinner and Technical Tour Only.	175	195
H	Spouse Program & Lunch - 23 August 2019, 9am - 5pm.	120	120
I	RP Bowling @ 22 August 2019, 2pm - Chapter/Corporate RP Bowling @ 22 August 2019, 2pm - Student	250/Team 100/Team	250/Team 100/Team
J	RP Golf @ KGNS, 11am	130	130

For more details & registration, visit

<https://www.ashrae.org.my/crc2019>



We seek for individual and company which is keen in supporting **22nd ASHRAE Region XIII**

Chapters Regional Conference as sponsors, please contact Sponsorship team

Mr Kozen Law +6017-967 5949



INDUSTRIAL VISIT: GAS DISTRICT COOLING PUTRAJAYA - PLANT 3

4 APRIL 2019

On the 4th of April, ASHRAE UTAR Student Branch had paid a visit to Plant 3 Gas District Cooling in Putrajaya. Over the tour, the student members had learnt how a district cooling system works in a large scale and how Gas District Cooling provides their excellent service to their customers. A special appreciation to Gas District Cooling, Mr Ainuddin and team for the hospitality and time for the student branch industrial visit

SEMINAR ON “ACHIEVING HIGH PERFORMANCE BUILDINGS”

13 MAY 2019

ASHRAE MALAYSIA CHAPTER – Kuching Session had organized a half-day talk on “Achieving High Performance Buildings”. ASHRAE Distinguished Lecturer Om Taneja presented 2 lectures during the event, namely “An Approach to Facilities Operational Improvements: Train O&M Staff and Provide Tools to Measure, Track & Adjust Equipment and Systems” and “Analytical, Performance & Prescriptive Codes & Measure for Life Cycle Assessment of Sustainability & Energy Efficiency Projects”. The workshop was attended by 25 participants.





TECHNICAL ARTICLE

New Generation of Cooling Towers Control:

EC (Electronically Commutated) motors are permanent magnet motors which are running on high voltage direct current (DC) electricity with built in AC to DC conversion allowing them to run direct from single phase or three phase mains supplies. They are more efficient, quieter and more reliable compared to AC motors.

By integrating the EC motors technology in the Cooling Tower, it will offer users the new perspective of flexibility in control, measurement, and automation with the potential saving in energy and noise reductions.

The EC motors have built in starter, controller, motor protection and EMI Filters. It will directly drive the high efficient fan with speed control and inputs from sensors for water temperature and ambient temperature for control & monitoring capacity.

The EC Motors will be directly connected to computer with minimum set up as 'plug and play' concept. This will eliminate the need of using Motor Starters and PLC or Variable Frequency Drive.



BENEFIT OF COOLING TOWERS DRIVEN BY EC MOTORS

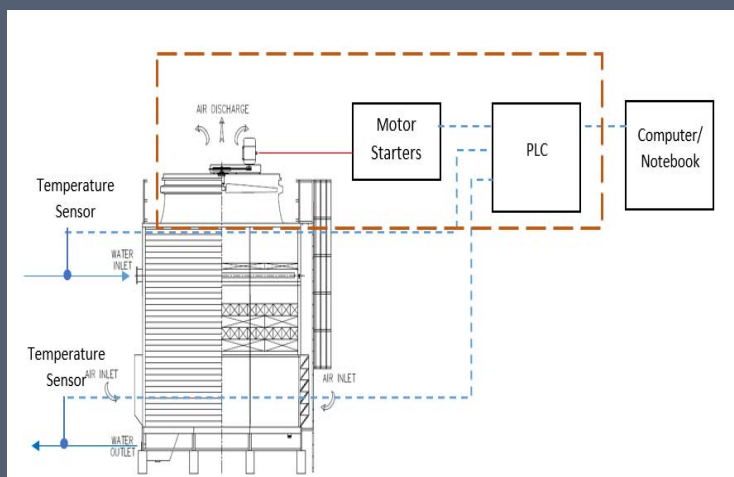
There will be significant reduction of wiring and starter/control panel cost as the cooling towers are designed with plug-and-play control option.

Hence the installation cost & site construction time will be significantly reduced

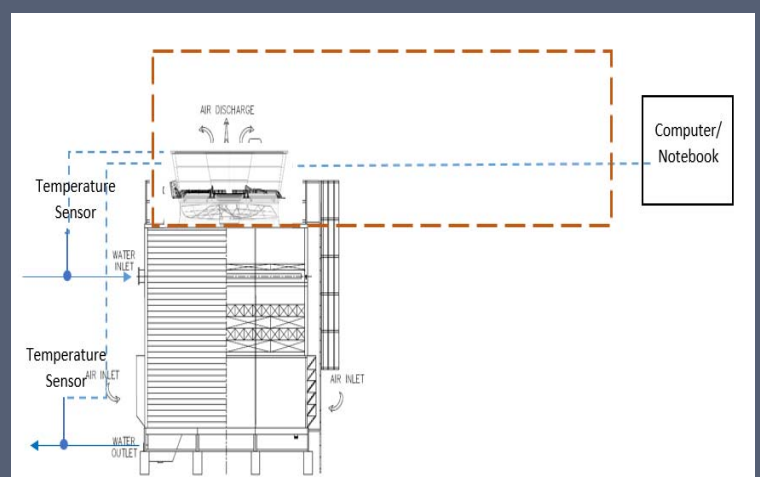
Speed can be easily controlled without the need of using Variable Frequency Drive.

The cooling towers can be operated at part load operation with high efficiency direct drive fan system and can be easily implemented with intelligent control system using the EC Motors technology

Typical Method



With EC Motor



#THROWBACK

ASHRAE RUN 2019

24 FEB 2019

UM and UTAR Student Branch had jointly organized the annual ASHRAE Run 2019 on 24 Feb 2019.

ASHRAE Malaysia Chapter would like to thank all the kind sponsors and participants for making this event a success.





ASHRAE MALAYSIA VISIT TO SURUHANJAYA TENAGA

2 MAY 2019

ASHRAE MALAYSIA CHAPTER had paid a courtesy visit to SURUHANJAYA TENAGA in Putrajaya on 2nd May 2019. The ASHRAE MALAYSIA CHAPTER delegates were led by President, Ir. Tan Chioo Bin. Joining the delegates are Ir. Ng Yong Kong (Director and Regional Chair), Mr Ng Wen Bin (President Elect), Mr. King Yeong Jin (Hon. Hon. Treasurer), Mr Chea Swei Keong (Grassroots Government Activities), Ms Irin Kang (Publicity Chair) and Mr. Chan Jian Wen (Historian).



ANNOUNCEMENT

Dear All Members,

This is to announce that we are organising our **34th Annual General Meeting** as follows:

Date: 24 May 2019 (Friday)

Time: 6.15 pm

Venue: ASHRAE MALAYSIA CHAPTER Secretariat office, Unit 518, Block A, Kelana Business Centre, 97 Jalan SS 7/2, 47301 Petaling Jaya Selangor

ASHRAE Internship

Industrial Training Experience in Qingdao Hisense Hitachi Air-Conditioning Marketing Co, Ltd. Indonesia Office

Caleb Sing Chao En

ASHRAE UTAR Student Branch Publicity Manager, 2017/2018



During the period of 9th October 2017 – 29th December 2017, I underwent an internship program for Qingdao Hisense Hitachi Air-conditioning Marketing Co, Ltd, in Jakarta, Indonesia. This company is a joint-venture between Hisense Group from China and Hitachi Air-conditioning from Japan, hence I always emphasize Hisense VRF products being Japanese's quality with Chinese's economical value when introducing Hisense VRF to the mass. For the market of Indonesia, the company only sells VRF air-conditioning systems.

As a chemical engineering student from UTAR, this means that I did not have the chance to study air-conditioning in details and thoroughly when compared to a mechanical engineering student. However, I like to describe myself as an adventurous person, so I was very excited to utilize this internship opportunity to broaden my knowledge about the HVAC industries and concepts, therefore diversifying my knowledge on various fields of engineering.

To get me build up my fundamental air-conditioning systems knowledge, my supervisor, Mr Danny Feng, the Indonesia Regional Manager of Hisense VRF tasked me to study the basics of various conventional air-conditioning systems such as single-split, multi-splits, chillers and finally compare all of them with the sophisticated technology of VRF. It took me 6 weeks to learn thoroughly the air conditioning system mentioned. As Hisense VRF Indonesia is a sales division company, I am inclined to always point out the advantages of VRF systems over other air-conditioning systems.

Aside from studying air-conditioning systems, I accompanied my supervisors to meetings. I have to admit that I enjoyed attending meetings, observing how my supervisor handled discussions with business partners, clients and potential business partners in a professional and delicate manner is an intriguing experience, something that is not taught in universities, but it is very useful for a prospective sales engineer.

As such, it was a splendid and wonderful experience interning in Indonesia. Special thanks to Hisense VRF and Mr. Poh Kai Sin for giving me the opportunity to join the Hisense family as an intern. I also want to thank Mr. Danny Feng and Mr. Boris Wirawan for being my supervisor and guiding me throughout these 3 months, allowing me to learn as much as possible about air-conditioning system.

Internship Experience at Hisense Branch Office, Vietnam

Ng Cho Cheng

ASHRAE UTAR Active Student Member, 2017/2018



The internship I've gone through provides an opportunity for me to obtain a first-hand experience in the real working world. With the greater acknowledgement that learning takes place beyond the confines of a lecture room, more emphases have been placed on an internship in an undergraduate course.

My name is Ng Cho Cheng, a Bachelor Degree student at Universiti Tunku Abdul Rahman in Mechanical Engineering. My internship at Hisense Hitachi Vietnam has taught me more than I could have imagined. I was offered to work as a technical support intern under Qingdao Hisense Hitachi Air-conditioning Marketing Co., Ltd. in Hanoi, Vietnam. Coming into this position, I felt that I had no idea where my career will be and I was lacked confidence in what I could do and what I am really good at. This internship has definitely given me a better understanding of my skill set and where my career may take me.

When I joined the internship company in October 2017, I found my first week to be very exciting and educational. I was assigned to assist in visit client together with northern regional sale manager. I learnt how to talk to potential clients, how to approach them and how to tell them about the company's services. It was very hard for me because I had to physically go out there or call, and talk to them on the phone and it could be intimidating, but I learnt better communications skills. Apart from that, I also learnt to be more independent.

At the very beginning, I was given the assignment of understanding the company's products with its features. Subsequently, I was honoured to be entrusted with the job of market research and analysis. I was assigned with the tasks of air conditioner (AC) equipment selection, technical data preparation, Hisense Hitachi AC AutoCAD software design and drawing, AC heat-load calculation, power consumption calculation and do comparisons with rival companies.

Through this internship, I've really enjoyed the relaxed atmosphere at the company and the wonderful people I've worked alongside. This has truly been a great learning experience and I'll be forever indebted to those who gave me a hand here. Thanks to Ashrae Malaysia offer me this opportunity to undergo internship programme overseas.



JOINT SEMINAR WITH MACRA ON “SUSTAINABLE, HEALTH & EFFECTIVE ENVIRONMENT”

23 APRIL 2019

ASHRAE MALAYSIA CHAPTER has conducted a joint seminar with MACRA on the topic of Sustainable, Health & Effective Environment in PALACE OF GOLDEN HORSES HOTEL, MINE WELNESS CITY, SERI KEMBANGAN on 23 April 2019. We have invited Mr Mitchell Swann, ASHRAE Distinguished Lecturer to conduct 2 papers on the topics Design –Build and the Standard of Care : Under which Standard? Under whose care? And Design Build for Green Buildings –Integrated Delivery of an Integrated Idea. Other invited speakers are Mr Rickie Chua (Product Strategy Manager of EBM-PapstSEA Pte.Ltd) , Mr Ferdinand Ng (Director of ENER-SAVE Sdn Bhd) and Mr Ferris Fu (Overseas Marketing Specialist of MIDEA CAC).

THE ASHRAE MALAYSIA CHAPTER DEN & EVELYN LOW SCHOLARSHIP

ASHRAE Malaysia has officially launched the ASHRAE Malaysia Chapter Den & Evelyn Low Scholarship. Established by a financial donation by one of the Past Presidents of ASHRAE Malaysia, the scholarship is named after Ir. Den Low Han Guan and his wife Evelyn, who is currently the Nominating Member for Region XIII as well as a correspondence member for ASHRAE Technical Committee TC 9.11 (Clean Spaces). His goal is to provide financial support to deserving students to pursue a undergraduate degree in Engineering. Under this Scholarship, ASHARE Malaysia Student Branch Members can apply for a scholarship with the value of USD 1,500 per year (approximately RM 6,000 per year). This scholarship is available yearly and applications are now open with the first award to be made in 2019. Interested parties can contact the ASHRAE Malaysia Secretariat for more information.

We express our highest gratitude towards Ir. Den Low for his generous contribution and applaud his efforts to support Engineering education in Malaysia. It is our hope that he can be an inspiration to everyone to give back to the industry as well as to pave the way for our future engineers.

