Physical Half Day Course On "Air Cooling Strategy of Server Room Cooling in Building Services

DATE:
11th April 2026
(Saturday)

TIME:
9:00AM - 1:00PM

VENUE:
AUDITORIUM
MALAKOFF,
WISMA IEM

CPD HOURS : applying CPD REF NO.: applying

In Collaboration With
Building Services Technical Division (BSTD), IEM &
Acson Malaysia Sales & Service

SYNOPSIS

Session 1 : By Ms. Mak Kai Lin

This technical talk provides an overview of precision cooling solutions, focusing on Acson's Precision Air Conditioning (PAC) technology and its practical applications. The session examines diverse server room strategies through case studies on room cooling utilizing chilled water systems and row cooling for space-optimized configurations. Additionally, the narrative explains the fundamental working principles of fan wall technology and the essential control logic—such as master-slave operations, automatic switchover, and BMS integration—required for robust remote monitoring. Concluding with a full review of the Acson PAC lineup, this overview highlights the integration of hardware and intelligent controls in maintaining mission-critical environments.

Session 2 : Ir. Pua Ching Tian

This technical session expands on Acson's cooling solutions, emphasizing the technology and its practical implementation for HVAC systems in hospitals, pharmaceutical facilities, and data centers.

The presentation will illustrate the use of dynamic simulation for both airside (AHU) and waterside (plant room) configurations. Attendees will learn how this approach enables hourly energy optimization across various high-performance building types.

COURSE PROGRAM

TIME	PROGRAMME
8.30 am - 9.00 am	Registration
9.00 am - 9.10 am	Introduction by Committee

9.10 am - 10.45 am	**Session 1 : By Ms. Mak Kai Lin**
	• Acson Cooling Control System
	• Case study related to different PAC application in server room
	  ◦ case study on room cooling (chilled water system + modular chiller, suitable for office server room)
	  ◦ case study on row cooling (suitable for tight space)
	• Concept on fan wall working principle
	• Control logic of PAC
	  ◦ Master slave
	  ◦ Switchover
	  ◦ Link to BMS, remote monitoring
	• Acson PAC line up
	• Q&A Session

10.45 am - 11.00 am	Morning Tea Break

11.00 am - 12.50 pm	**Session 2 : Ir. Pua Ching Tian**
	• Air cooling Dynamic Simulation, Control Strategies and Energy Efficiency
	• Dynamic Weather Profiling For Airside and Waterside
	  ◦ Dynamic Cooling Setup on Airside Plant For healthcare, pharmaceutical and data center
	  ◦ Dynamic Cooling Setup on Waterside Plant For healthcare, pharmaceutical and data center
	• System improvements for energy efficiency performance and compliance

12.50 pm - 1.00 pm	• **Q&A Session**
1.00pm	Lunch Break End Programme

SPEAKER'S PROFILE

Speaker 1 : Ms. Mak Kai Lin

Six years' experience in HVAC industry, Kai Lin specializes in commercial air conditioning products and system applications across the commercial and industrial sectors. Her technical proficiency encompasses the design and implementation of chillers, air handling units, precision air conditioners, and variable refrigerant flow systems. Having transitioned from a background in chiller application design and product customization for international markets into a strategic pre-sales role, she excels at recommending tailored solutions for mission-critical environments such as data centers, hospitals, and cleanrooms.

Speaker 2: Ir Pua Ching Tian

With over three decades of experience in the HVAC industry, Ir Pua specializes in air conditioning systems for data centers, healthcare, pharmaceutical, commercial, and warehouse facilities. His work spans diverse ASHRAE climate zones, including Southeast Asia, the Middle East, Europe, and Africa.

He possesses extensive technical expertise in the design and implementation of cooling systems, energy analysis and auditing, and CFD simulation. Additionally, he delivers high-efficiency value engineering to ensure compliance with high-performance green building standards such as LEED, GM, and GBI.

REGISTRATION FEES (subject to 8% SST)

	Online Fees (RM)	Normal Fees (RM)
IEM MEMBER	50.00	50.00
NON IEM MEMBER	100.00	100.00

NAME	MEMBERSHIP NO.	NRIC	FEES (RM)
		Sub Total:	
		SST Added 8% :	
		Total Amount Payable :	

Organisation : .....

Contact Person : .....

Position: .....

Billing Address: .....

.....

Company Registration No : ..... **Tax Identification (TIN no) :** .....

Contact Details: Office No: .....

Email Address: .....

Date Submitted : .....

Handphone No: .....