

# DECOUPLED CHILLED WATER SYSTEM VS. VPF & DAIKIN APPLIED FACTORY VISIT



by Ir. Yong Gee Suan



EM's Building Services Technical Division and Daikin Applied Sdn. Bhd. organised a one-day seminar on Decoupled Chilled Water System vs. Variable Primary Flow System, which included a visit to the new Daikin Applied Factory in Shah Alam on 8 August 2019.

Daikin Refrigerant Shah Alam Sdn. Bhd. (DRM-SA) is a near-to-market approach (factory built nearer to Asia Oceania countries) by Daikin Industry Limited, Japan, since 2014, to locate factories that not only fulfill the equipment supply in Asia Oceania, but also to provide a better lead time, faster spare part supply and sharing of technical know-how with engineers and customers using the chilled water system.

The Shah Alam factory, spread over 40,283 sq m with a built-up area of 20,665 sq m, is capable of producing at least 500 chillers and 5,000 units of Air Handling Unit (AHU) annually.

the industry, Daikin is be planning to organise more such training and workshops in 2020. ■

DRM-SA has also built an international Air Conditioning, Heating & Refrigeration Institute certified test stand that is able to certify the chiller performance base on customer application condition.

The seminar speaker, Dr ZhaoXi Jing, spoke on two popular chilled water systems – primary secondary system and variable primary flow system – and compared their design considerations, benefits and disadvantages.

He also addressed the application consideration, chiller sequencing strategy, flow requirement and control in VPF as well as building low delta temp syndrome.

As the seminar has been well received by leading consulting firms from



Visit to Daikin Refrigeration Shah Alam Sdn. Bhd.