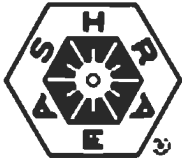


" Digital Scroll Technology" Enhancing the use of the latest Variable Refrigerant Flow (VRF) Technology

Venue: Furama Hotel, Venus I, Level 3 Date: 27 Nov 2007 (Tuesday) Time: 6.15 - 9.45pm

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ASHRAE Singapore Chapter

Guest Speaker

Arup Majumdar,

Director Marketing

Emerson Climate Technologies Asia Pacific

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Synopsis

Variable Refrigerant Flow (VRF) multiple evaporator systems are rapidly increasing in popularity and usage across the major global markets. Asia Pacific markets have already a large and growing base of VRF systems. The compression technology is indeed an important key to the efficient and reliable operation of VRF systems. Traditionally, there have been few ways to achieve this - using inverter and hot gas bypass technology, etc. While these technologies have been in use for several years, there are several design and application challenges and constraints that have prevented widespread use of the VRF systems.

With the advent of the new compression technology, using the Digital Scroll, such a development allows the VRF systems to be evolved in a relatively simplistic manner. Since then, several of the technical challenges have been overcome and there is now a much wider usage of the Digital Scroll technology.

Digital Scroll technology offers a host of benefits such as: better dehumidification at lower operating capacities; excellent full load and part load efficiencies; easy oil returns that enhance air-conditioning system reliability; very precise control of room temperature and humidity; and all these benefits derived from a relatively simpler design.

This simplicity greatly reduces the electronic and mechanical complexity of an air-conditioning system, thus providing better overall reliability and durability.

Digital Scroll can provide real value to customers, and end-users alike: a higher level of comfort, greater energy efficiency, lower energy costs, quieter operation, and achieve the ultimate beauty of interior and exterior of every building.

This topic would be of good interest to all in the air-conditioning and refrigeration industry.

ABOUT THE SPEAKER:

Arup Majumdar is Director Marketing of Emerson Climate Technologies Asia Pacific, based in Hong Kong. Arup joined Emerson in 1999 as the Manager of Application Engineering - Asia Pacific, and moved on to positions of increasing responsibility in engineering and marketing and was appointed the Director of Marketing in the year 2002.

Prior to joining Emerson, Arup spent 8 years with Carrier Corporation in their residential air-conditioning and transport business in Gurgaon and Bangalore India and Kuala Lumpur Malaysia and his last position was as Manager – Engineering and Manufacturing, for the transport business in India.

Arup's area of interest is modulated system technology and he has worked extensively with the available technologies – inverters and the Copeland Digital Scroll. He was instrumental in introducing the Digital Scroll technology to multiple OEMs spread across Asia, Middle East, Europe and North America and establishing this technology as a strong alternate to the incumbent Japanese inverter. He has been awarded the Emerson Technology Award for his contribution to establishing this technology globally. Arup is a regular speaker on modulated technologies in various industrial forums globally and has written several technical articles on this topic.

Arup has a B. Tech in Mechanical Engineering from the Indian Institute of Technology, Kanpur in 1988 and an MBA from the Indian Institute of Management, Ahmedabad

Event details

Date : 27th November 2007 (Tuesday)

Time : 6.15 – 9.45 pm

Venue : Function Room, Venus I, at Level 3, Furama Riverview Hotel

Address : Furama RiverFront Singapore 405 Havelock Road Singapore 169633

Fees

Registered ASHRAE Singapore Chapter members **Free of charge**

Invited Guests of ASC members only: **Free of charge**

Closing Date

Register by email or fax before **15th November 2007**

Programme

Registration, Exhibition and Cocktail

6.15 pm – 6.45 pm

Pre-Dinner Talk (Update of Digital Scroll Technology worldwide)

6.45 pm – 7.15pm

Buffet Dinner

7.15pm – 8.15 pm

Technical Talk and Q&A

8.15 pm – 9.45 pm

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Please contact the following for clarifications:

On programme matters: Assoc Prof Chandra Sekhar [Email: bdgscs@nus.edu.sg]

On registration matters: Ms S. W. Yeo [Email: bizpro@singnet.com.sg]

Go to www.ashrae.org.sg to download reply form and for more updates on program outline, registration details and fees payable