



Ashrae Headquarters
Atlanta, USA

Ashrae India Chapter
New Delhi

ASHRAE INDIA CHAPTER NEWSLETTER



December, 2011 | Volume 13 Issue 2 | Editor : Sonali Dutta | Associate Editor : Nagesh Dutt

Don't Miss

ACREX
India 2012
 FOR A GREENER TOMORROW
 23 - 25 FEBRUARY 2012
 BIEC, BANGALORE



Stop Press !

New identity
for ASHRAE

The new ASHRAE brand supports our focus on improving engineering standards and our market position as a community of engineers and related professionals united by knowledge, mission and a code of ethics to design, construct and operate better places for people to live, work and play.

An announcement regarding the rebranding was made at the Society's 2012 Winter Conference at Chicago.



BETTER THE BUILDING DESIGN.
HAPPIER THE MOTHER EARTH.

DAIKIN World's Leading Air Conditioners



Daikin Air Conditioner with Inverter Technology
A new record for energy-saving

With love, from Japan

3 Benefits of Inverter System

- Energy-saving
- Greater comfort with temperature control
- Quiet operation at low 22 dB sound level*



*FTXS25-3SEVMA / FTXS25-3SEVMA



Address by: ASHRAE President - Ron Jarnagin



My fellow ASHRAE members,
I have some exciting news to share regarding a rebranding of our great Society. For more than 100 years, ASHRAE has provided guidance for HVAC&R. As time and technology have changed, so has ASHRAE, moving from focusing solely on HVAC&R to providing guidance for total building design, reconstruction, construction and operation.

In recognition of this evolution, ASHRAE is making some changes regarding how we brand the Society. Our promise for sustainability encourages us to improve the quality in the built environment while leaving a lasting legacy for future generations. The new ASHRAE brand supports our focus on improving engineering standards and our market position as a community of engineers and related professionals united by knowledge, mission and a code of ethics to design, construct and operate better places for people to live, work and play.

First, and most visible, is a refreshing of the ASHRAE logo. Market research showed us that the logo had a dated brand presence (the logo was created in 1959 to recognize the merger between The American Society of Refrigerating Engineers and the American Society of Heating and Ventilating Engineers) and that we needed a more modern look that fully reflects the evolving structure of the Society and our aspirations. Along with this logo, we have created an ASHRAE Logo Guide document to ensure that we maintain a consistent brand image.

In addition, we have created a tagline to help explain to outside audiences the expanded role of ASHRAE in the world around us.

“Shaping Tomorrow’s Built Environment Today” presents ASHRAE as the dynamic and innovative Society it is today and promises our members, the industry and the world that whatever the future brings in the built community, ASHRAE will be at the forefront for research and guidance.

Lastly, we are doing business as “ASHRAE” vs. using our full legal name of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. Use of ASHRAE reflects our global membership and that our services will continue evolving globally.

In addition, the rebranding coincides with a redesign of ASHRAE.org. With this redesign comes better navigation, a better search engine and better tracking, all of which will help you find the information you need whether it’s for your role in the industry or ASHRAE.

An announcement regarding the rebranding was made at the Society’s 2012 Winter Conference at Chicago. We also shared an inspirational video with the audience that tells the story of ASHRAE.

Following the Conference, we will provide additional guidance and information for our grassroots regions, chapters and student branches on how this change impacts how these groups conduct business. In addition, we have created a Frequently Asked Questions document that provides answers to some of the questions you may have.

This is an exciting time for our Society! I look forward to working with you and our more than 52,000 members around the world to shape tomorrow’s built environment today.

Thank you.

Ron Jarnagin

ASHRAE Learning Institute 2012 Spring Online Course Series

The following courses comprise of two parts. Registrants must attend both parts in order to receive CEU/PDH credits. Archiving is available.

- District Cooling & Heating Systems
- Basics of Combined Heat & Power
- Evaluating the Performance of LEED®-Certified Buildings
- Commissioning Process & Guideline 0
- Complying with Standard 90.1-2010: HVAC/Mechanical
- Complying with Standard 90.1-2010: Envelope/Lighting
- Humidity Control: Principles and Applications – Part 1
- Humidity Control: Principles and Applications – Part 2
- Implementing ASHRAE Standard 189.1-2009 – Part 1
- Implementing ASHRAE Standard 189.1-2009 – Part 2
- Integrated Building Design – Part 1
- Integrated Building Design – Part 2

For more information visit : www.ashrae.org/onlinecourses

ASHRAE Certification Programs

- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit
[www.ashrae.org/
certification](http://www.ashrae.org/certification)



ASHRAE Night

ASHRAE INDIA CHAPTER (AIC) organized "ASHRAE Night and Membership Promotion Night" on Saturday, December 17, 2011 at Hotel Lebua, New Delhi. The members had an enjoyable evening full of entertainment with Ghazals followed by Cocktails & Dinner.

ASHRAE Awards received by Chapter and members were distributed during the function. The event was supported by

Gold Partners: UP Twiga Fiberglass Ltd. & Danfoss Industries Pvt Ltd.
Silver Partners: ALP Aeroflex India Pvt. Ltd, K-Flex India Pvt. Ltd. & Edgetech Air Systems Pvt. Ltd.



A conference on Ventilation

VENTCONF – A Revolution Ahead!



"ASHRAE INDIA CHAPTER (AIC)" in association with "Delhi Chapter of ISHRAE (DCI)" organized the first ever dedicated Conference on Ventilation named **VENTCONF 2011** on 4th November-2011 at Manekshaw Centre, Subroto Park, Dhaula Kuan, New Delhi. The theme for the Conference was "**Ventilation – A Revolution Ahead**".

Held on 4th November, **VENTCONF 2011** was a well organized, highly educative and interactive event, conducted at one of the most admired venue location with world class infrastructure. The technical conference provided a platform for Industry to learn from a host of eminent National & International Speakers who shared their knowledge and expertise on the present status and developments taking place in Ventilation

designs, products & applications. The speakers presented case studies and insights on latest developments related with subjects like Industrial Ventilation and design, Natural Ventilation design and key study, Testing Standard and norms, National Building codes on Fire and Safety, Smoke Management Basement Ventilation & Efficiency Improvements in Ventilation.

VENTCONF 2011 welcomed more than 450 Delegates participating from various sectors such as Architecture, Consultancies, Contractors, Manufacturers, Builders, Govt. Organizations and other end users in the field of infrastructure development etc. who highly appreciated the motive & concept of the conference.

VENTCONF Team headed by the Chairman

Mr. Sachin Maheshwari worked hard to organize a great event at a decent and worth seeing site Venue. The core committee members comprising of Mr. Sunil Kher, Mr. Ashwini Mehra, Mr. Sanjay Gupta, Mr. Sushil K Chaudhury, Mr. Ashwani Jain, Mr. Mukesh Puri, Mr. Amit Goel, Mr. Akash Deep Aggarwal, Mr. Harpreet Singh & Mr. Pradeep Dua along with the support from Secretariat of Delhi Chapter of ISHRAE.

All the participants enjoyed Networking Dinner followed by Cocktail and appreciated the great event and wished for participating in the next upcoming events and conferences organized by ISHRAE.

AIC & DCI thanks all of its main partners and catalog show participants for their spirited support.



GREEN CORNER: By: Ashish Rakheja & Ashish Jain

“BUILDING DOESN'T HAVE TO BE NEW TO BE GREEN”

A series of articles contributed by the Spectral team



Green Building movement has exponentially grown in less than one decade in India and currently focuses on new building construction sector due to the increasing rates of construction. Despite rapid rates of construction in the country, existing building stock far exceeds that added annually; hence it is critical that policy interventions are made to improve energy efficiency in both new construction as well as existing buildings.

Furthermore, Green building is about reducing operational cost and at the same time increasing human comfort, hence it is a certain fact that even old existing buildings can get benefitted considerably by this concept. Today's building owners are retrofitting buildings, converting existing buildings into models of sustainability with the aim of reducing energy bills and increasing asset value.

Contrary to popular perception, industry interviews and research confirm that many energy-saving initiatives for existing buildings can be achieved with little or no cost. For example, Festival Walk in Hong Kong, a mixed-use commercial complex building built and managed by Swire Properties, one of the biggest real estate companies in Hong Kong and a member of the Swire Pacific Group, changed the control strategy of its air conditioning system in 2004 from a flow-demand oriented logic to a multi-criterion logic to minimize the mismatch of cooling load demand and chilled water flow demand. The investment for such a change was minimal since it only required modification of the program logic, but the energy savings reached approximately 400,000 kWh and reduced the release of CO2 by 240,000 kg annually. To identify such



saving opportunities like the Festival Walk case in existing buildings, the starting point is to make energy management a business priority for building operators and occupiers. In that way, a building doesn't have to be new to be green.

In addition to the developed countries where scope for new construction has been shrunk, the green building movement for existing buildings has begun even in developing countries like India due to the fact that building efficiency is key to cutting energy consumption. Buildings account for 16% of world energy consumption, with a higher share in developed economies (nearly 40% of total energy use in the United States). In 2007, 878 million metric tonnes of greenhouse gases were attributed to commercial buildings worldwide. In US, while approximately 2% of commercial floor space is newly constructed each year, and a comparable amount renovated, the majority of opportunities to improve efficiency over the next several decades will be in existing building stock, most of which are constrained by old equipment, aging infrastructure, and inadequate operations resources.

As per Architects Journal, "The huge task of retrofitting UK buildings could offer three decades of work for architects, and overshadow new-builds by 2050".

Paul Finch, Chair - Commission for Architecture & the Built Environment (CABE) says, "There are more than 25 million homes in Britain, most of which do not conform to current environmental standards. If we retrofit 4,000 homes per week, it would give us 30 years worth of work. If you choose to seize it, this is one of the biggest opportunities for architects that we've seen in this country for a very long time."

It is also worthy to note here that 80% of the total lifecycle cost of a building goes in operation and maintenance (O&M) cost while the initial investment is only 20%. Hence, it is important to ensure that the building is operated and maintained in a more sustainable manner.

Different certifications available to certify the sustainable operations in existing buildings and to streamline efforts to promote energy efficiency in the buildings sector include,

Energy Star rating by Environmental Protection Agency (EPA)



BEE Star Rating for Buildings by Bureau of Energy Efficiency (BEE)



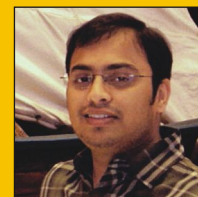
LEED (Leadership in Energy & Environmental Design) certification by United States Green Building Council (USGBC)



Improved efficiency of existing buildings through building retrofitting and other measures represents a high-volume, low-cost approach to reducing energy use and greenhouse gas emissions. As India pursues ambitious plans for sustainable development and equitable growth, energy efficiency is an important, low-cost resource. With an emphasis on "whole building" rather than piecemeal approaches, existing buildings can significantly reduce energy consumption and greenhouse gas emissions while producing financial rewards for owners.



ASHISH RAKHEJA
M. Tech, IIT-Delhi
Chief Operating Officer
SPECTRAL



ASHISH JAIN
AIID, MPM, FAAPM,
LEED® AP (O+M), IGBC AP
Assistant Manager
Spectral Sustainability Group

Towards a cleaner life

Air Distribution Products Range

- Double/ Single Skin AHU.
- Air Washer Unit.
- Kitchen Scrubber Unit.
- Tube Axial Fans.
- Inline Fans.
- Air Distribution Products
- Air Movement Products.
- Fire & Smoke Control Devices.
- Silencers (Round/ Rectangular).



AIR FLOW PVT. LTD.

13/1090, Hardhian Singh Road, Karol Bagh, New Delhi - 110 005 (INDIA)

Ph.: 011-2875 1236, 4760 2222 (8 Lines), Fax : 011-2875 2267

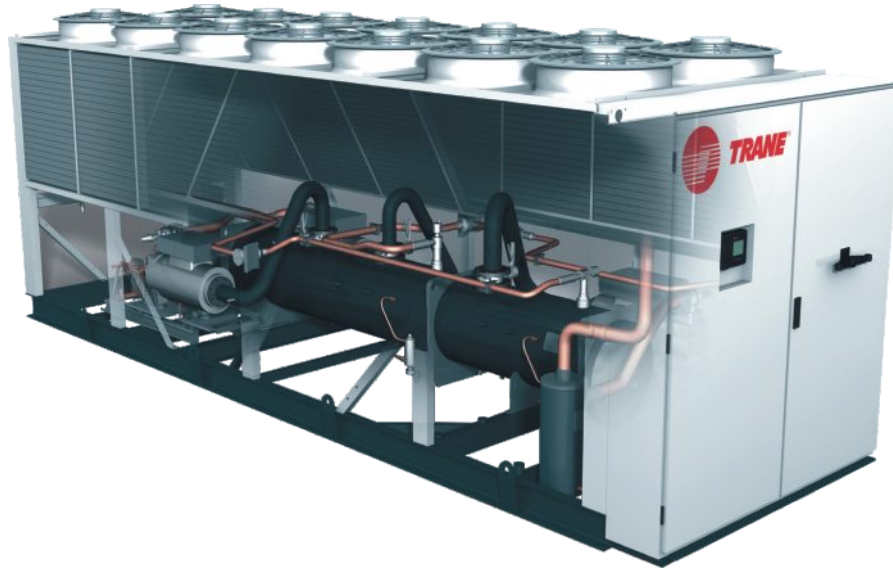
E-mail : mail@airflowindia.net, airflow@del3.vsnl.net.in Website : www.airflowindia.net





TRANE®

*Cooling and Heating
Systems and Services*



The **Innovation** leader

In chiller technology

The Expertise of a Team,
the Talent of an Individual

IR **Ingersoll Rand**
Inspiring Progress™



ASHRAE Distinguished Lecturer Programme on High Efficiency Building Design



ASHRAE Distinguished Lecturer Programme by Dr. Drury Crawley on 'High Efficiency Building Design' was held on 29th Oct., 2011 at Willow, India Habitat Centre. The workshop was very well attended and appreciated by the participants. Oventrop was the partner for the event.

HVAC&R Event Calendar

- **ACREX India 2012**
February, 2012 , BIEC, Bangalore, India
- **High Performance Buildings Conference**
March 12-13, 2012, San Diego, CA
- **AHR Mexico**
September 25-27, 2012 , Monterrey, N.L, Mexico
- **CLIMA 2013**
June 16 – 19, 2013 - Prague, Czech Republic

Chapter Contributes US \$970 towards Research Promotion

Mr. Deepak Pahwa	\$300
Mr. Dinesh Gupta	\$100
Mr. Rajnish Joshi	\$100
Mr. Anoop Ballaney	\$100
Mr. Sunil Kher	\$100
Mr. K.D. Singh	\$100
Aircon Engineers Pvt. Ltd.	\$170



New ASHRAE Members

Sr. No.	Name	Company Name	Sr. No.	Name	Company Name
1.	Mr. Ahmad Kamal	Paltech Cooling Towers & Equipments Ltd.	18.	Mr. Omkar Singh Sardana	Adwika Engineers
2.	Mr. Rishi Kapoor	Johnson Controls(I) Pvt. Ltd.	19.	Mr. Manish Kumar Singh	L & T - ECC
3.	Mr. Ashish Seth	Pipeline Products India	20.	Mr. Vijay Tikoo	ASF Infracture Pvt. Ltd.
4.	Mr. Sandeep Vasant Bapat	Johnson Controls(I) Pvt. Ltd.	21.	Mr. Rajesh Rustagi	Mep Consulting Engineers Pvt. Ltd.
5.	Mr. Vikas Kaundal	Leighton Contractors(India) Pvt. Ltd.	22.	Mr. Rohit Vij	Samsung India Electronics
6.	Mr. Parvinder Singh	Lloyd Electric & Engg.	23.	Mr. Anurag Gupta	Lloyd Electric & Engg. Ltd.
7.	Mr. Rajesh Singh	Pipeline Products India	24.	Mr. Ajay Parkash Sharma	Ansal API
8.	Mr. Amit Kumar Verma	ACME Tele Power Ltd.	25.	Mr. Suresh Verma	Voltas Ltd.
9.	Mr. Vippan Rajput	Samsung India Electronics(P) Ltd.	26.	Ms. Vinita Juneja Vaish	IREO Management
10.	Mr. Prabhat Kumar Goel	Johnson Controls (I) Pvt. Ltd.	27.	Mr. Rishabh Wadhwa	Dyna Aircon Pvt Ltd.
11.	Mr. Ajay Chawla	IREO Management Pvt. Ltd.	28.	Mr. Mahendra Kumar Verma	Avenir Projects Private Ltd.
12.	Mr. Rajesh Saigal	Intertek	29.	Mr. Rajan Mittal	Advance India Projects Ltd.
13.	Mr. Ankur Khandelwal	Spectral Services Consultants Pvt. Ltd.	30.	Mr. Vikas Sharma	I.S. Sethi & Engg. Asso.
14.	Mr. Tejbir Anand	ALP Aeroflex India PVT. Ltd.	31.	Mr. Parveen Arora	M/s Sauter Race technologies Pvt. Ltd.
15.	Mr. Mahesh Kumar	U.P Twiga Fiberglass Ltd.	32.	Mr. Varghese Joseph	Samsung India Electronics(P) Ltd.
16.	Mr. Bhaskar Mukherjee	U.P Twiga Fiberglass Ltd.	33.	Mr. Sanjay Piplani	Spectral Services Consultants Pvt. Ltd.
17.	Mr. Raman Nanda	Belimo Actuators India Pvt. Ltd.			

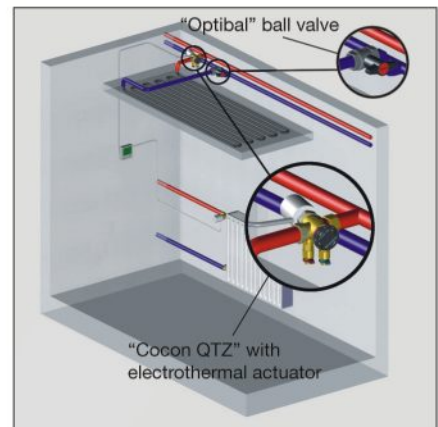
*Please visit us at the
ACREX India 2012 (23.-25.Feb.)
in hall 3A at our booth C 122 !*

MADE IN
GERMANY

Pressure independent dynamic balancing valve (PID) "Cocon Q" with automatic flow control: multifunctional and economical



"Cocon QTZ" with electromotive actuator/with pressure test points



Chilled ceiling system

The Oventrop pressure independent dynamic balancing valve "Cocon Q" combines two hydronic functions in one valve.

Firstly, in connection with standard actuators or thermostats (M 30 x 1,5), the valve controls the flow rate depending upon the room temperature requirements.

Secondly, the maximum flow rate, when the valve is fully open, is automatically controlled, ensuring that the maximum required flow rate in all supply risers is not exceeded.

Your advantage:

- multifunctional applications (e.g. chilled ceilings, fan coil units, air handling units, convector and central heating systems)
- presetting and optical display of the nominal values even with mounted actuator

For further information please contact:

Mr. Sunil Anand
Dehli, India
Phone (+91) 1 20 - 2 59 13 19
Mobile (+91) 99 71 66 46 90
E-Mail s.anand@oventrop.com
or:

Mr. Milind Pawar
Mumbai, India
Mobile (+91) 98 33 83 08 37
E-Mail m.pawar@oventrop.com



"Cocon QFC" with electromotive actuator/with pressure test points

Cool Large Areas Economically

using

EVAPORATIVE COOLING

DRI ARCTIC™ COOLERS



Benefits

- 100% Fresh Air
- Improved Indoor Air Quality (IAQ)
- Windows & doors can be left open
- Ensures full ventilation – exhausts odors and stale air
- Low purchase & installation cost
- Lower operating cost (approx. 1/10 of the Air-Conditioning cost)

Please Visit us at

Hall # 3A, Booth No # B 105 & 106,
at **ACREX 2012**,
23-25 February 2012,
BIEC Bangalore.

Offices



Malls



Textile Mills



Shop Floors



Banquet Halls



Tea Industry



Warehouse



Paper Mills



Hot Fresh Air



Cool Supply Air



EVAPORATIVE COOLING PADS

Contact No.
+91-8826008129



100-101, Udyog Vihar, Phase-IV, Gurgaon-122015, Phone: +91-124-4188888, Fax: +91-124-4188800
E-mail: drimarketing@pahwa.com, Website: www.drirotors.com