

# SHOW DAILY

DAY 3 | SATURDAY, FEBRUARY 27, 2016

# ACREX India 2016

25-26-27 FEBRUARY 2016

BCEC, MUMBAI, INDIA

[www.acrex.in](http://www.acrex.in)

ORGANISER



ENDORSED BY



EVENT PRODUCER



## CONTENTS

MAIN FEATURE ..... 1  
SEMINAR ..... 3

SCHEDULE ..... 4  
EXHIBITOR SPEAK ..... 5

PHOTO FEATURE ..... 6,7  
PRODUCTS, LAUNCHES & IMPRINT ..... 10,11



from left to right Pankaj Dharkar, Ranjan Rawal, PRP Ramakrishnan, Arun Bhatia, David Underwood, Anuj Agarwal and Rahul Kadri

Source: ISHRAE

## Enlightening Minds!

A curtain raiser was held prior to the opening of ACREX India 2016. The event featured a panel discussion that brought to the forefront challenges, solutions and innovations for the HVAC&R sector.

The curtain raiser for ACREX India 2016 hosted an exciting a panel discussion on the 'Importance of Design and Architecture for Sustainability, Big Savings and Performance in the Long Run.'

Pankaj Dharkar, National Chair of ACREX India 2016 and Managing Director, Pankaj Dharkar Associates, welcomed the attendees and panelists for the support to the show. "I am very proud to see the presence of

Industry leaders and I am humbled by their support to the show. I look around the stage and am in awe with the collected expertise gathered here. The curtain raiser of ACREX India 2016 is certainly a moment that we should all savor and enjoy. If you take a quick look around you, I'm sure you will all agree that our event has come a long way. It all started as a dream of ISHRAE, of creating a world class networking platform for our Industry and platform for future generations of enlightened minds. We would like to extend our gratitude and thanks to all the role players that have made it possible for the dream to become a reality," asserted Dharkar.

### The Panel

The panelists included Arun Bhatia, Managing Director, UTC - Climate, Controls & Security; Anuj Agarwal, Head,



Catherine Yang, Managing Director, Carrier Commercial Refrigeration, Asia

Source: ISHRAE



L&T Valves

**TURN TO L&T VALVES**

**STAY COOL**

Visit us at:  
**Hall 1  
Stall C50**



from left to right Pankaj Dharkar, Ranjan Rawal, PRP Ramakrishnan

Source: ISHRAE



Rahul Kadri

Source: ISHRAE

Infrastructure Management & Services Group, ICICI Bank Ltd; Rajan Rawal, Executive Director, Centre for Advanced Research in Building Science & Energy; T David Underwood, President, ASHRAE, P.Eng., Fellow ASHRAE, Life Member, CPMP, resides in Oakville, Ontario, Canada; PRP Ramakrishnan, Area Director of Engineering – South Asia, Marriot International; Pankaj

Dharkar, Managing Director, Pankaj Dharkar Associates.

The panelists also shared their thoughts that the industry has to work in tandem in order to ensure timely delivery of projects. The panel was moderated by Rahul Kadri, Director, Kadri Consultants Pvt Ltd.

#### Relevant Pointers

Pertinent questions were raised

by Bhatia: “One should have a discussion on technology innovation, challenges in end to end mergers. Do people look at the performance of the building? Are operators knowledgeable to operate the facility? Are clients aware to do a facility audit?” He stressed that India is evolving; however, there is a long way to go.

Adding to this, Underwood stated, “It is important to have trained people around. People and process have to be right; it cannot go wrong. Having a great design and sustainability is in hands of the architect. Internationally, it’s the architect who creates the back bone and then rest falls in place. It’s the architects that need to advice companies on to sustain. Having a great design with keeping sustainability in focus will change the mindset and the give great returns.”

Agreeing with this sentiment, Dhakar added, “An architect goes to the client with great design but he should stress and educate the clients on basics of it before getting the final approval. India is changing, one of the examples is a client from Surat, a diamond

merchant, had requested help from me in his factory for chillers. Once we visited the factory, he was so confident with our advice that he gave us full authority to use best technology that will allow him to have sustainability of his factory and business. The point here is that diamond merchants are not so well versed with technology, but if given an expert point of view, they are happy to implement technology to support their business; which in turn, will help them in sustainability.”

The importance of design was stressed upon. Rawal opined, “It is important to have customer orientation. Design is also a technology, but it is not looked into with the attention it requires. If my building is wrong, I will get tied to that structure for about 60 years. If I do my wiring and chill up wrong, it’s going to take long time to fix it. It can’t be changed in one or two years; hence, the basics have to be right.”

Another aspect was introduced by Ramakrishnan. He expressed, “Sustainability initiatives and responsible operations are vital concerns. Revenue generation by providing quality data in reduction of carbon footprint, and the latest environmental practice in the RFP help in improving sustainability and should be looked at carefully. Cost-savings achieved by implementation of energy and water saving projects and initiatives are also other ways to ensure performance in the long run.”

Agarwal further mentioned, “Sustainability goals can be accomplished by practicing energy conservation and efficiency. In the context of our country, where we are still in deficit for our power needs, every unit of energy saved by an organization or a citizen could help power some household to create sustainable living and livelihood. Experience shows that energy conservation projects if implemented properly generate very quick savings and the money saved could be ploughed back into taking the initiative forward to other projects in the same field thereby scaling up the sustainability gains. Through energy conservation, the user could well hedge himself from the increasing power tariff.”

The panel discussion was eye-opening and set the tone for all attending ACREX India 2016 – to be better informed, think out of the box, and work towards sustainability.



David Underwood, Anuj Agarwal and Rahul Kadri

Source: ISHRAE

# Encouraging the Youth!

The ISHRAE Mumbai Chapter has decided to hold an inter-collegiate engineering and technical quiz competition on 27 February 2016. This is for the sole purpose of reaching out to the student community. Here's a backgrounder on how it came to be.

a Quest has its genesis in the humble beginnings in the year 2000. This year, the organizers ISHRAE decided to hold an inter-collegiate engineering and technical quiz competition on 27 February 2016, for the sole purpose of reaching out to the student community. This quiz was initially restricted to colleges in and around Mumbai and for the



V Krishnan, Convenor Acrex 2016,  
Chairman aQuest

Source: ISHRAE

undergraduate engineering students.

The first quiz had only eleven teams participating. Over the decade, the quiz became an annual affair for the ISHRAE Mumbai Chapter. When it started, it was held on the lines of the immensely popular Bournvita Quiz Contest. It was a highly cerebral event and attracted the scholars among the student community. The colleges would vie with one another to hold the ISHRAE Quiz Contest at their premises.

"It was in Acrex India 2010, ISHRAE Mumbai decided to invite teams from other locations in India to give it a national flavor. The intention also changed. Instead of trying to attract only the scholarly, the idea was to engage the student community at large. With this goal in mind, entertainment became an integral part of the contest. The Quiz Master, who was earlier from the industry, now came from the entertainment world. These quiz masters now came from RJs, standup comedians and dramatists," states V Krishnan, Convenor Acrex 2016, Chairman aQuest.

## New Beginnings

With these changes, the event has since been awaited by colleges all over the country. "The year 2013 became a defining moment, when the contest got its new branding—aQuest. Now it was not just a quiz show, or an entertainment event, but a vehicle to weed out the best talent from among the students in the most remote corners of India," adds Krishnan.

aQuest is now the most exciting element of Acrex India show, which is the flagship event of HVAC&R in India. This year the number of participating colleges burgeoned to over one hundred! To manage the logistics, the aQuest went to two cities, Kolkata and Ahmedabad to conduct the zonal semifinals.

The finals are now underway with two teams each from the two zonal events with two more teams coming in as wild card entries.

**Catch the event on 27 February 2015 @Hall 2A!**



[www.edgetech.co.in](http://www.edgetech.co.in)

## e<sub>3</sub>: Inspiration Behind Making Every Single AHU for a Healthy World

At the heart of the company's DNA is the vision that "healthy economic growth and a healthy environment should go hand in hand". To achieve this goal, Edgetech has committed itself to a unique work philosophy called "e<sub>3</sub>" -- which stands for Eco-Friendliness, Energy Saving & Engineering Excellence -- 3 principles that guide the company's entire operations.













Edgetech's state-of-the-art modern manufacturing facility is IGBC Certified Gold rated green Building

Edgetech Air Systems Pvt. Ltd.

Corporate Office : 403-404, Gopal Heights, D-9, Netaji Subhash Place, Pitam Pura, Delhi-110034 (India)  
Tel.: +91-11-45090117-19 E-mail: sales@edgetech.co.in  
Delhi • Mumbai • Bengaluru • Kolkata



## WORKSHOP &amp; SEMINAR SCHEDULE

## WORKSHOPS @ ACREX INDIA 2016

Session	Date	Timing	Instructor	Topic
Session 1	Thursday, 25 February 2016	2:00pm - 5:00pm	Lennart Wass	Air distribution and Heat Load Considerations for Displacement Ventilation Systems
Session 2	Friday, 26 February 2016	10:00am - 1:00pm	Peter Simmonds	Short Course on Tall, Supertall and Megatall Building Systems Design
Session 3	Friday, 26 February 2016	2:00pm - 5:00pm	Ramesh Parashuram Paranjpey	Design of cold storage as a part of cold chain
Session 4	Saturday, 27 February 2016	10:00am - 1:00pm	Peter Simmonds	Safe & Save Ammonia Refrigeration Systems

## SEMINARS @ ACREX INDIA 2016

Date	Time	Topic	Conducted by
Thursday, 25 February 2016	11:00am to 1:00pm	Safety at the HVAC Workplace	ISHRAE
Thursday, 25 February 2016	2:00pm to 4:00pm	Reducing Building Energy	REHVA, the European Association for Heating Ventilating and Air conditioning
Friday, 26 February 2016	11:00am to 1:00pm	All about Refrigerants	ISHRAE's Committee on Refrigerants
Friday, 26 February 2016	2:00pm to 4:00pm	Fire & Safety inside Glass Facades	FSAI , Fire & Safety Association (Hall 6)
Friday, 26 February 2016	2:30pm to 4:30pm	Session on Building Performance Score	USGBC
Saturday, 27 February 2016	11:00am to 1:00pm	An Architect and Developer Interaction	A panel discussion towards convergence
Saturday, 27 February 2016	2:00pm to 5:00pm	aQuest	a National Engineering Quiz for Students, (Hall 2A)



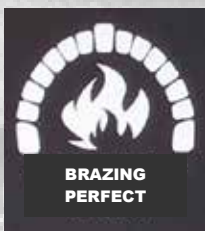
# SUNKWANG BRAZING FILLER METAL CO., LTD.

Patented  
&  
Registered

## " World's Only "

# Flux Injected or Flux Mixed Aluminume Brazing Filler Metal.

## NEW GENERATION LIVES ON!!!



- AVAILABLE IN WIRE ROD, SPOOL, STRIP WIRE, AND FORMED INTO RINGS.
- PRE-MIXED NON-CORROSIVE PIPE TUBE BRAZING RING.
- GOODBYE WITH POOR WORKING CONDITIONS DUE TO FLUX MIXING EVER AGAIN.

We cordially invite you to come and visit us and witness the latest new and improved products for year 2016

Hall No :

I

Booth No :

C-14

# Encouraging Young Talent in the Industry

Learn how a company with joint efforts is devising ways to encourage innovation in industry whether in the way of the awards or incubation of innovative technologies or encouraging the young engineers in various ways.

**D**eepak Pahwa, Chairman, Pahwa Group & Managing Director, Bry-Air (Asia) Pvt Ltd believes that it is the right time to attract and develop talent for the industry. “We need to focus on finding

ways and means to make engineering students opt for a career in our industry by creating opportunities that are more exciting and rewarding,” he voices.

We hope both the stu-

dents and the industry benefits from this endeavour.

This new initiative is another one of many that Bry-Air and Desiccant Rotors International (DRI) has taken over the years under Pahwa’s leadership.

## New Initiatives

Last year, 2015, saw the culmination of a decade of promoting innovation in the Indian HVAC&R industry through the Bry-Air Awards for Excellence in HVAC&R. Pahwa advises, “The Bry-Air Awards for Excellence in HVAC&R was instituted in 2005 to encourage innovation and recognize innovative work done within the Indian HVAC&R industry – ‘Ek chhoti si aashathi’ – so that our young engineers would aspire to ‘learn to fly’. There was no other recognition or awards for the

HVAC&R innovator when the Bry-Air Awards were instituted. Today, there are several other awards which are highly encouraging for the industry. Although, the Bry-Air Awards had become synonymous with the industry and particularly the way it was so independently structured by the way of management of a Jury, we did feel that there was a lot more happening in the industry in innovation that did not get translated into nominations.”

At the Pahwa group, where innovation is life; it always devise ways to encourage innovation in industry whether in the way of the awards in a different avatar or incubation of innovative technologies or encouraging the young engineers in various ways.

Pahwa says, “As we

paused to introspect and discuss with industry leaders we decided not to carry forward the Bry-Air Awards to its 11th edition in 2016. This is owing to there being many other recognitions and awards in the industry. We are hoping our initiative of sponsoring a study tour of young engineers will encourage other companies also to participate in facilitating the visit of groups of engineers, may be even groups of five each to help encourage the youth to take interest in this sector.”

Bry-Air and DRI under the leadership of Deepak Pahwa has taken many such initiatives to expand and strengthen the Indian HVAC&R industry. Another initiative taken by him was BALI—the Bry-Air.



Deepak Pahwa, Chairman, Pahwa Group & Managing Director, Bry-Air (Asia) Pvt Ltd.

Source: Bry-Air (Asia) Pvt Ltd



Supreme Always Value Efficient



INSUflex  
Nitrile Foam Tubing for Pipe insulation



Supreme®  
People who know plastics best



‘INSUflex’ (NBR tubing) is a FR closed-cell, flexible, elastomeric pre-formed thermal insulation tubing for pipe insulation. It is an environment & user friendly product, than conventional fibrous products.

**Features:** • High water vapour diffusion resistance ensures thermal efficiency during low temperature operations • Chemically inert • Low thermal conductivity • Operating temperature range from -55°C to +105°C • Light weight and flexible tubing • Fire retardant material quality ensures safety & protection • Odourless • Fiber free and zero O.D.P.

**Applications:** HVAC piping • Split and window A/Cs piping • Chiller pipe • Insulation of plumbing and waste water drainage pipes • Solar piping • Cold storage • Clean room piping and many more...

**Suitable for:** • MS Pipes • Copper Pipes • PVC Pipes • PPR Pipes





**Other products from the INSU Range:**

**INSUshield:** Non-fibrous, fire retardant (FR), closed cell, tri-dimensional chemically crosslinked polyethylene foam for thermal insulation applications

**INSUreflector:** Fire retardant (FR) polyethylene bubble material encased with aluminium foil on one or both sides that reflects 96 to 99 percent of radiant heat beneath slated roofs

**INSUsound-xlo:** FR, open-cell, engineered XLPE foam for sound insulation

# Awards and Celebrations

ACREX AWARDS OF EXCELLENCE powered by DAIKIN



**Green Products**  
Winner **Bitzer**



**Green Products**  
Runner up **Emerson Climate Technologies**



**Energy Saving**  
Winner **Thermax**



**Energy Saving**  
Runner up **Ziehl-Abegg**



**Innovation**  
Winner **Prihoda**



**Innovation**  
Runner up **Danfoss**



**Indoor Air Quality**  
Winner **Alfa The UV Expert**



**Indoor Air Quality**  
Runner up **Aeropure**

ACREX India 2016 played host to awards functions, one being the ISHRAE Honors & Awards—that felicitates several members and their hard work and commitment towards the organizations. The other function being the ACREX Awards of Excellence powered by DAIKIN, which are awarded to exhibitors for their pioneering solutions under categories such as Green Products, Energy Savings, Innovations, and Indoor Air Quality.



**Jury Award  
AZBIL**



## ISHRAE Honors & Awards, 25th February 2016



**Exceptional Service Award**  
Pankaj J Shah, Director SRP Enviro Systems Pvt. Ltd., & Shilpakruti Marketings Pvt Ltd.



**Exceptional Service Award**  
Dipak Barma, Director, ACROVENT Systems Pvt. Ltd



**M M Pande Award**  
G. Ramesh Kumar, Deputy General Manager, Branch Head, Bangalore M/s. ETA Engineering Pvt Ltd

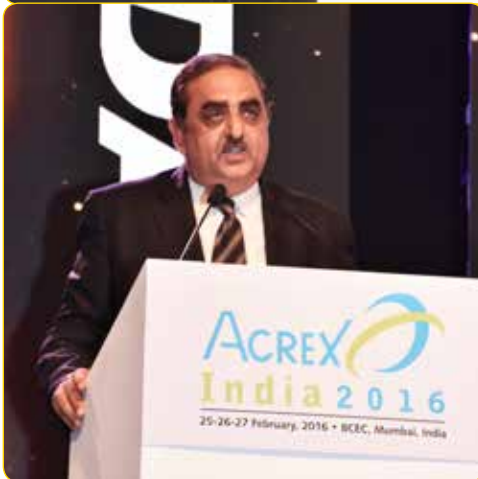


**Distinguished Service Award**  
Sushil K Choudhury, Managing Director of Blowtech Air Devices Pvt. Ltd.



**Lifetime Service Award**  
D. Nirmal Ram, Director of Cerebration Consultants







# Does Environmental Sustainability make Business Sense? – Infosys Story

Infosys has been practicing environmentally sustainable design, construction and operations for its buildings and campuses for many years now. They have been relentlessly striving to do more with less, to transform the world to a sustainable one.



Punit H Desai, Regional Manager, Infrastructure & Green Initiatives, Infosys Limited

Source: Infosys

Infosys has taken goals of becoming carbon neutral, reduce our per capita energy consumption by 50%, reduce the per capita water consumption by 40%, practice zero waste to landfills policy, and source 100% electricity from renewable sources by the year 2018, against the baseline year of 2008. They are constantly pushing boundaries to achieve its goals and significantly improve its performance on these counts.

Over the past seven years, the company has constructed over 5.2 million square feet of LEED Plati-

num certified office buildings. Over two million square feet of building space is under various stages of LEED certification aiming to receive LEED Platinum certification. Additionally, they have made tremendous efforts and investments in pursuing deep green retrofits to reduce energy and water consumption in our existing buildings and campuses. Since 2008, the company has reduced its per capita energy consumption by 46% and per capita water consumption by 30%.

The company evaluated

its efforts and results on various counts to see if practicing environmental sustainability has made business sense for them.

## Energy Costs:

The ultra-high energy efficient buildings consume 60% less energy. Furthermore, they have been able to reduce the energy performance index (EPI) of our buildings from 200 kWh/m<sup>2</sup>/year to 80 kWh/m<sup>2</sup>/year. This translates into 60% reduction in the energy costs. Energy cost is the single biggest operations costs for operational buildings and practicing environmental sustainability has made tremendous sense on this count.

## First Costs/Initial Investment:

From experience, one of the important learnings is that it, it does not cost more to construct an ultra-high resource efficient building. This is possible by way of practicing 'Integrated Design Approach' and 'Ingenious Engineering'. They have been doing this for several years now.

## Occupant Experience & Occupant Productivity

The company learned that by practicing green design principles, they were

able to offer state-of-the-art Indoor Environment Quality (IEQ) for its building occupants. In addition, they were able to deliver high level of thermal comfort, visual comfort, indoor air quality and acoustic comfort. At least 70% of the office space is day lit without glare. Building occupants have a greater sense of wellbeing when working in building like these, which has positive influence on their productivity, leading to improved business productivity.

## Influence on Business & Clients

Lower energy costs, meant lower operations cost, which is good for business. Energy efficient IT systems like ultra-high efficiency Data Centers help them become competitive in the market which is good for business.

Clients are happy because the company is able to offer 'Low Carbon' services, which means that by way of working with us, they will have least carbon added to their overall carbon footprint. Once we achieve carbon neutrality, we will be able to offer 'Zero Carbon' services to our clients, which would be of great value to them.

## Life and Value of Real Estate

Green design principles, call for the operations be intelligent and data driven. We operate and manage our buildings through real time data and with in-built artificial intelligence. There is a lot of transparency and hence easy accountability in operations.

The best achievement in the Infosys operations is that, this way, they are able to operate its buildings as good as new throughout their life time. This increases the life and value of real estate.

## Conclusion:

Hence, the company sees that practicing environmental sustainability has made tremendous business sense for them on all counts. It has made business sense to all its state holders namely, its shareholders, our clients, our employees, the society and the environment at large.

The company strongly recommends the industry to adopt environment sustainability at the core of everything that they build, as it would make most sense for any business and industry.



Ultra high efficiency building at Infosys Mysore

Source: Infosys



Ultra high efficiency building at Infosys Hyderabad

Source: Infosys

Source: Armacell India



## An Efficient Insulation Solution for Mounting Heating and Plumbing Pipes

The Armafex X pipe support provides an efficient insulation solution for mounting heating and plumbing pipes. To prevent energy losses, not only the pipes, but also fittings and pipe clamps must be correctly insulated. By isolating the pipe and bracket from each other Armafex X prevents thermal bridges. The lightweight insulated clamp can be installed quickly, simply and neatly. Compared to insulating pipe brackets after they have been fitted, using Armafex X pipe support saves both time and money. Whereas pipes are now insulated as a matter of course in new buildings, this is generally still not the case for pipe brackets. If these remain uninsulated or are incorrectly insulated, high energy losses occur due to thermal bridging. To prevent thermal bridges, direct contact between the pipe and its bracket should be avoided.

**Armacell India**  
Hall 1 / Stall D2

Source: L&amp;T Valves



## Valves for Flow-control

L&T Soft-seated Ball Valves are available in single, two and three-piece designs, in ASME classes up to 2500. The valves are available in sizes up to 8" (200 mm) in a variety of materials to suit customer requirements. L&T Valves also offers actuation solutions that leverage in-house capabilities in system design and integration.

**L&T Valves**  
Hall 1 / Stall C50

Source: The Supreme Industries



## Ideal Material to Maintain the Ideal Temperature

The Supreme Industries Ltd presents a revolutionary product for thermal insulation is 'INSUshield'. The material is a non-fibrous, FR, closed-cell, tri-dimensional chemically cross linked polyethylene foam. It meets requirement of 'Class O' for fire propagation and 'Class I' that conform to surface spread of flame as per BS 476 Part 6 & Part 7 respectively as stated by CBRI (Central Building Research Institute). INSUshield is an ideal environment friendly insulation material, with a perfect solution for all your insulation needs for ducts, roofs, pipes, vessels etc. It is a better alternative to conventional Glass Wool insulation material. It has low and stable 'K' value with a wide operating temperature range from -40°C to +115°C. The divergent advantages of 'INSUshield' are ease of installation, low thermal conductivity and good moisture and vapour resistance preventing microbial growth and optimum condensation protection. Furthermore, it is chemically inert, non-toxic and non-carcinogenic. INSUshield-tubing is also available in pre-formed tubing form for pipe insulation. It finds its application in areas of ducting insulation, underdeck insulation, pipe insulation, floor insulation, insulation joint sealing tapes, sound insulation, overdeck insulation, and wall insulation.

**The Supreme Industries**  
Hall 5 / Stall N-5A

## Brazing Material

Sun Kwang Brazing Filler Metal Co Ltd is a leading manufacturer of special aluminum and copper filler metals for brazing industry. The company's SKA and SU Series contain non-corrosive flux in the metal. With its unique patented technique of flux injection / flux mixed as 100% seamless and flux invisible wire, and taking into account the characteristics and hazardous materials, the company has created a 'Work of Art'. It provides the solutions for many existing problems caused during the brazing process.

It significantly increases the productivity and reduces the production time offering benefits such as a cleaner environment, reducing inferiority and increasing efficiency of the working condition. Additionally, the use of Aluminum-4047 Brazing rods requires the use of flux paste. However, using the company's solution eliminates the need for flux paste and offers savings in terms of time, material cost and operational cost. Furthermore, the SU-TA 200 (Non Corrosive Flux injected wires) and SKA-TB 200 (Non Corrosive Flux mixed wires) offer several advantages to long term applications.

For any application, the overall costs involved are considered as a whole, and the benefits of the SU-TA200 / SKA-TB 200 are unbeatable. Not only does it bring down the overall cost but more importantly, it offers cleanliness, safety, consistency of brazing over the use of any existing conventional Al-4047.

**Sun Kwang Brazing Filler Metal Co Ltd**  
Hall 1 / Stall O-14



Source: Sun Kwang Brazing Filler Metal Co Ltd

Source: LG Electronics India Pvt Ltd



## VRF Solution for Heating and Cooling Residential and Light Commercial Spaces

The MULTI V S is the ideal VRF solution for heating and cooling residential and light commercial spaces. The smaller-sized HVAC solution offers a full lineup of models ranging from 4 to 14 horsepower, an industry first. Moreover, unlike conventional VRFs which have a top discharge, the MULTI V S has a side discharge making it suitable for installations in spaces such as verandas. The compact and lightweight HVAC solution boasts a number of advanced air conditioning technologies, including a fourth generation inverter compressor, a powerful outdoor unit, an optimized refrigerant control system and the Wide Louver Plus fin. The MULTI V S's outdoor unit is easy to transport and install. Able to cool a space quickly and quietly, the MULTI V S creates a pleasant indoor environment. The MULTI V S boasts a 4.25 coefficient of performance (COP), a figure that is top in its class. It also offers a wide connectivity for up to 23 indoor units.

**LG Electronics India Pvt Ltd**  
Hall 1 / Stall D1

Source: Hitachi Home and Life Solutions (India) Ltd



## Advanced Air Conditioning Solutions for Commercial & Industrial Use

Hitachi's Water Cooled Chiller combines high efficiency with high performance. New model chiller lineup featuring a G-type semi-hermetic twin-screw compressor using the environmentally-friendly R134a refrigerant. In addition to low noise, low vibration, high efficiency and high performance, the new models come with a user-friendly touch panel type liquid crystal screen display that allows you to check operation status at a glance and has a full range of control functions. As the perfect answer to user needs, Hitachi's chillers are designed to cover a broad range of applications from air conditioning of buildings to cooling of factories.

**Hitachi Home and Life Solutions (India) Ltd**  
Hall 1 / Stall E1

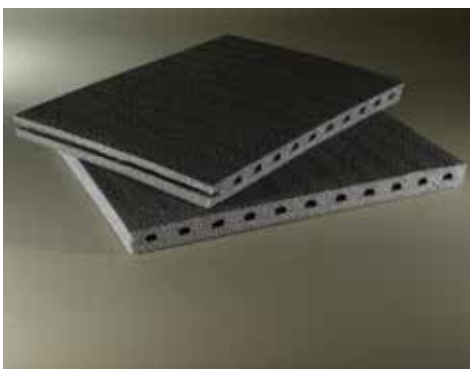
# Insulation Foam

Supreme launches INSUshield-af - engineered cross linked polyethylene foam with improved thermal insulation properties

INSUshield-af is a range of engineered cross linked insulation foam with additional air-filled chambers embedded within its closed-cell structure. These air gaps create more resistance to heat transfer reducing the energy flow. Thus, it increases the insulation efficiency and reduces the energy consumption offering you greater savings and quick ROI. It retains all the

beneficial features of INSUshield. It further enhances the thermal conductivity value of standard INSUshield by over 30%. This helps in optimizing/reducing insulation thickness, offering a distinct cost advantage over standard INSUshield. Furthermore, it has very low yet stable thermal conductivity; therefore, it offers better insulation performance with improved energy saving. The tri-dimensional, closed-cell structure makes INSUshield-af, a mechanically stronger foam with good vapour barrier properties. It is flexible making it easy to be pasted on the surface of the duct. It finds its use in the HVAC&R industry, pharmaceuticals and textile mills, PEBs, industrial, factory and poultry sheds, food processing industry, data centers, server rooms, standard rooms, etc., computerized control rooms for petrochemicals, power plants, steel plants, manufacturing units, networking stations and many more.

**The Supreme Industries**  
Hall 5 / Stall N-5A



Source: The Supreme Industries

## IMPRINT

### ISSUED BY

NürnbergMesse India

### EDITORIAL TEAM

Sonia Prashar, NürnbergMesse India  
Kavita Sharma, NürnbergMesse India  
Ashok Thakur, Brand Guru Marketing

### Contact:

Manasi Multani (Ms.)  
MARCOM Manager  
NürnbergMesse India Pvt. Ltd.  
[manasi.multani@nm-india.com](mailto:manasi.multani@nm-india.com)

### Social Media:

<https://www.facebook.com/ACREXIndiaOfficial/>  
<https://www.linkedin.com/in/acrex-india>

Disclaimer: All rights reserved.

This tabloid is intended for the dissemination of information about the HVAC&R, purely for academic and informational purposes aimed at discourse on HVAC &R. No parts of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the permission of the owner of the copyright.

All content is the copyright of ACREX INDIA.

**ACREX**<sup>®</sup>  
**India 2017**

**23 - 25 FEBRUARY • 2017**  
**IEML • GREATER NOIDA • DELHI**

[www.acrex.in](http://www.acrex.in)

South Asia's Largest Exhibition on Refrigeration, Air-conditioning, Ventilation and Smart Buildings

**Reserve your SPOT today!**  
**Visit us @ ACREX India 2017 Lounge in**  
**Hall 1, Stall No: B9**



**Witness 'Global Cooling'**

Organiser



Event Producer

**NÜRNBERG MESSE**