



**ACREX**  
**India 2018**

22 - 24 FEBRUARY 2018  
Bangalore International Exhibition Centre (BIEC)

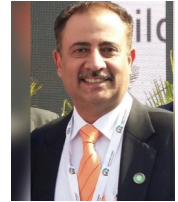


**ACRO**NEWS

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## ISHRAE Speaks

# Message From National President, ISHRAE for Acrex India 2018



**Mr. Vishal Kapur**  
National President  
ISHRAE

The flagship event of the HVAC&R industry - ACREX is now ready to welcome you. Bangalore, the "Silicon valley of India" is all excited for this mega exhibition – Build Fair Alliance - covering HVAC&R, Plumbing and Fire & Security industries. Visitors are participating from all over the world and all corners of India, across the full spectrum from Users / Developers / Industry / Architects / Designers / Contractors / Manufacturers / Dealers / Facility & Project Managers / Academia... and you name it! A lot of new products and technologies will be launched and showcased. Many business partnerships will be collaborated as this is possibly the best platform for

networking for this industry.

ISHRAE is proud to organise this exhibition-cum-conference, super-symposium and fulfill our vision of being the leading body, instrumental in proving for the technical, training & research requirements of HVAC&R Industry and be the ultimate knowledge repository for all to benefit from.

See you all in full force and enthusiasm at ACREX India 2018!

## ACREX Exhibitor Preview

# Preinsulated pipes: A definite boon to the HVAC industry

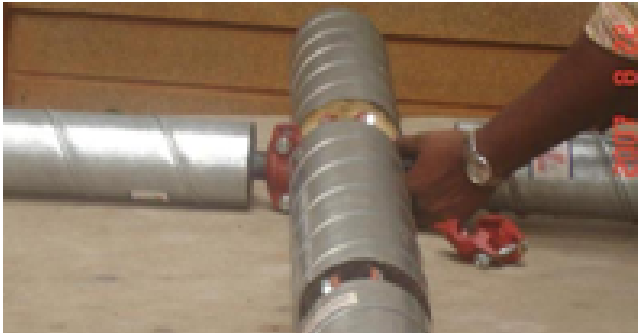
Seven Star Aircon Ancillaries Pvt Ltd is a pioneer in the manufacturing of Preinsulated pipes in India. In the late 2000s when the economy was booming & when the number of projects far exceeded the number of people who could execute them at site, there was a widespread desire from all stakeholders in the HVAC industry, for efforts to reduce the burden at site.

The development and production of preinsulated pipes was initiated as a result of this. Half a dozen professionals who had spent almost their entire working career in the HVAC industry were convinced that this would definitely ensure that productivity at site be increased many-fold & quality & workmanship issues would disappear.

Seven Star was started in July 2006 & within a short span executed key projects including a 1000 room hostel block for Infosys, Mysuru through Blue Star where the entire chilled water pipework was fabricated/insulated offsite.

This helped the contractor finish a project which normally would have taken 6 months in a couple of months while ensuring work quality.

Over the years they have done several projects for varied applications such as Space, Nuclear Power stations, Hospitals, Hotels & IT parks including the Bangalore International Exhibition Centre where this exhibition is being held.



Sample Of Pipework At Infosys Mysuru

Seven Star has also added a whole range of ducting – Spiral, Flat oval, Flexible, Semi rigid & Rectangular ducting to its product range to offer the Industry a Whole Range of off-site support to the hardworking engineers at site.

You can visit their stall D36 in Hall 4 for more details and personal interaction.



### ACREX Exhibitor Preview

## Sensors- Are they important?

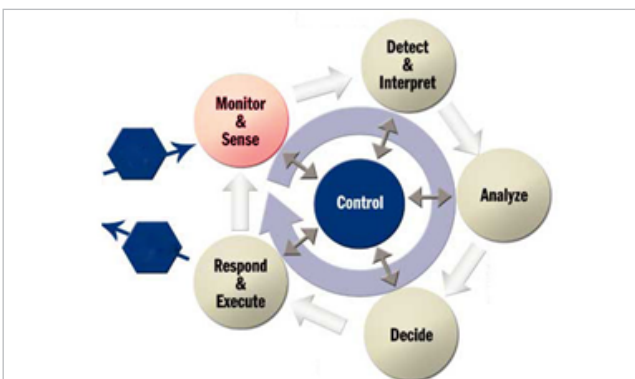
*The brains of machines simplified by  
 Mr. Victor George of Shirang Automation and Controls*



Pleasant environment makes the place good and productive. In today's world controlling the environment to the desired level is mandatory in industries, commercial buildings, etc. so that people get pleasant environment that lead to productive work. Effective and efficient controlling will happen only when the environment is known thoroughly.

### How do we know the environment?

Sensors will help to know the environment. When the actual parameters of an environment are precisely known controlling also will happen precisely. We take an example of human brain which is like a controller and our sensitivity is like a sensor. Brain can be much better if the sensitivity is good and poor if the sensitivity is poor. As the reaction to anything we hear or feel is based how we sense it. Sensors are more important.



After having the controlled environment the common

issue now is Energy consumption. Optimisation of energy consumption is much important as higher energy consumption leads to higher cost. To calculate the amount of energy used, the measured parameters should be accurate. The demand in the market moves towards reducing the energy consumption. We also see demand for wireless, digital communication and sensors with IoT (Internet of Things) emerging fast. Sensor technologies will drive the next digital age.

The sensors can interact with each other, self-diagnose themselves and indicate a revolutionary change in the way we work and live. We can rely on sensors to make sure everything is running smoothly and to alert us when it's not.

The use of these sensors improves HVAC applications, where the maintenance of heating and ventilation units can be lengthy and requires manual detection, preparation, and repair. With a network of devices capable of sensing malfunctions and sending alerts, problems can be found and fixed quickly.

As we know sensors matters a lot in controlling as well as energy monitoring, Shirang Automations tends to provide reliable and enduring sensors with the help of our manufacturer Dwyer. Shirang Automations, a well-known brand in the global sensor market shall be available at ACREX 2018 for discussions and knowledge exchange.



## ACREX Exhibitor Preview

### Embraco Showcases Innovation In Efficiency At ACREX

High-performance and affordable solutions will be presented by one of the largest global cooling specialists

Embraco is a global company whose mission is to promote quality of life through innovative cooling solutions. With 11 business units and about 1,700 patents granted worldwide, the company operates in more than 80 countries with products and services for the commercial, household as well as aftermarket and distribution segments.

**FMFT413U:** Embraco presents an intelligent and fast-cooling solution for light commercial applications, such as medium and low temperature reach-ins, as well as self-contained refrigerated islands. This



solution improves the temperature control, has much lower noise and vibration compared to the current solutions, and is one of the most efficient compressors available for users in its capacity range. It also works with R-290 (natural refrigerant), making it a great low GWP solution. The FMFT Bivoltage compressor employs Variable Speed Technology, which enables the refrigerator to reach the target (set point) temperature much faster. A traditional single-speed compressor always operates at maximum speed, which can waste energy if only a low-cooling capacity is needed most of the time. The FMFT is able to operate at a broader range of speeds, allowing it to reach target temperatures more efficiently. This can help reduce energy consumption by up to 30 percent, compared to the traditional solutions available in the market.

**EMC3125U:** the EMC Compressor, as part of the EM family of compressors, is one of the world's most efficient single-speed compressors and uses natural refrigerant R290, which has zero Ozone



Depletion Potential (ODP) and negligible Global Warming Potential (GWP). The EMC Compressor is designed for beverage coolers, vending machines, under-counters and reach-ins. It features a smaller platform, with an extended cooling capacity that can replace larger compressors, releasing more internal space for refrigerators.

**FMX:** Latest generation of compressors with Fullmotion Inverter technology (variable speed) for wine coolers with an extremely high built-in energy efficiency. Provides better food preservation, low noise and wide voltage range. Furthermore, it's a compact product,



which brings advantages when developing applications with limited internal space. It's designed to use natural refrigerant R600a (isobutane).

**FFUS:** Latest generation of compressors Embraco "F" family, this model is the best seller of portfolio with recognitions of all regions because of quality and due to is 22% more efficient comparing to competitors. It works in severe conditions due to the possibility of using start capacitor, with less noise and vibration.



**NJX:** Extension of NJ family in a compact design, NJX is the right solution for all commercial refrigeration applications up to 1770 WLBP (refrigerated islands, milk coolers, coolers, glass door Merchandiser, upright cabinets, reach-ins, ice cream makers and cabinets, walk-in coolers). Its new 38 cc displacement (equivalent to 50cc on the market) can stretch the cooling capacity up to 2HP for LBP, with an improvement up to 30% in comparison to the current NJ Embraco solutions on the market. NJX stands out for its robustness, high reliability and improved performances. Available with natural refrigerant R290, it is an intelligent solution for the upcoming EU F-gas ban regulation, ensuring high eco-sustainability and zero effect on the ozone layer. NJX is lighter (15kg less in comparison to the current 2 cylinder solution on the market (R404A) and has lower noise emission.



**PLUG N' COOL:** It's a complete solution for the food retail chain and designed as a drop-in solution for reach-in refrigerators. Embraco achieved a simplified installation process with the Plug N'



Cool modular concept. Its innovative design improves the experience for customers and OEMs, food retail chains and even consumers, by increasing the flexibility of the store's architecture. The hallmark of this particular cooling solution is that it provides a "plug and play" refrigeration option that simplifies the installation process, and eliminates the need for a machine room. The Plug N' Cool uses R290 (natural refrigerant) and also delivers significant positive effects on the environment, while contributing to a reduction in energy usage - a win-win scenario for all the refrigeration chain.

Organiser:



Event Producer:

NÜRNBERG MESSE

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## Natural Refrigerants

For more than 20 years, Embraco has used natural refrigerants in its compressor portfolio for commercial and household use as an alternative to reduce the negative effects on the ozone layer, greenhouse effects and to improve the equipment’s efficiency index. The company believes that using natural refrigerants – especially hydrocarbons – is the ideal solution for the future of refrigeration by sustainably aligning economic and environmental needs.

Embraco presents innovative solutions for commercial, household and aftermarket segments, especially for merchandisers and food services, at ACREX 2018 (Feb. 22-24), in its own booth, at BIEC, Bengaluru.

One of many is the FMFT Bivolt, an intelligent and fast-cooling solution for light commercial applications. It’s able to operate at different speeds and helps reduce energy consumption by up to 30 percent, when compared to fixed speed technology models. The solution uses the natural refrigerant R290, which is the most environment-friendly fluid in the market. Together with the bivolt compressor, Embraco is increasing its R290 portfolio in India with EM2X3135U and EMX3134U to a total of 72 models.

Embraco also showcases the FFUS solution, the best selling compressor in the company’s portfolio with globally recognized quality. **Embraco can be found at booth B-31 in the show’s Hall 4.**

## Have you planned your trip to ACREX India 2018 ?

### Booking advisory - Time starts now!

Bengaluru will host ACREX India 2018 and another big event at the same time. The spots would be tighter. We advise you to make your bookings at the earliest, since the tariffs are going to rise higher than the standard expected price range. You can reserve your accommodation, air travel and local transportation directly or hassle-free through the ACREX India 2018 appointed Travel Partner:

**International Travel House Limited**  
T-2 Community Centre, Sheikh Sarai Phase-I,  
New Delhi-110 017, Tel.: +91-11-26017808

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### Build Fair Alliance Partners



**BUILD FAIR ALLIANCE**  
Integrated Building Solutions



## Write for ACRO News

Hello, Readers!

We are soliciting content - news, views and reviews. We urge you to send in stories about the industry, energy saving, latest technologies, innovation and market discoveries. If you have anything that you would like us to cover in our forthcoming issues, please write to [marketing@nm-india.com](mailto:marketing@nm-india.com)

# ACRONEWS

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<b>ACRA</b>	<b>AHK</b> India-German Chamber of Commerce and Industry (Deutsch-Indisches Handels- und Industrie-Gesellschaft)	<b>ASSOCHAM</b>	<b>ASCA</b> All India Society of Consultants	<b>CCSI</b> Central Council of Construction Industry	<b>CREDAI</b>	<b>ESAI</b>	<b>GBCI</b>	<b>IFMA</b>	<b>ISHRAE</b> Indian Society of Heating, Air-Conditioning and Sanitary Engineers of India
<b>ISKID</b>	<b>ISIRI</b>	<b>ISIRI</b>	<b>ISIRI</b>	<b>ISIRI</b>	<b>ISIRI</b>	<b>ISIRI</b>	<b>ISIRI</b>	<b>ISIRI</b>	<b>ISIRI</b>

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An Initiative by ISHRAE

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## ACREX Exhibitor Preview

### SafeRef invites all to their exhibit at ACREX'18

Come Acrex 2018, SafeRef would be exhibiting at booth A34 during the ACREX 2018 Bangalore, displaying their entire range of HVAC components, consumables and accessories. They would also be conducting live demonstrations of brazing at the show. Company experts and representatives will be there to answer any questions you may have about the products and application.

SafeRef has been offering quality HVAC components and consumables to OEM, distributors, contractors and retailers for over 50 years. Their customers consistently commend them for quality products with application and warranty support.

Some of the highlights for this year include:

1. **Harris Products Group:** Aluminum Brazing Alloys, New Perfect Flame, Copper Brazing Rings

2. **Huayi** FHP range of refrigeration Compressors
3. **Hartell** Commercial Condensate Pumps
4. **Highly** NRAC Compressors
5. **Dry All** 'UL' Listed Products: Tracer Wafer Filter Driers, Oil Separators & Accumulators
6. **Dixell** Electronic Controls
7. **Emerson** Flow Controls
8. **Aspen** Condensate Pumps & Accessories
9. **Copeland** Scroll Compressors
10. **tru+ brands:** Electricals, Tools, Accessories & Consumables

*Looking forward to seeing you there!*

## ACREX Exhibitor Preview

### A brief introduction to Sam Products Pvt. Ltd.

Based at Noida, in the NCR region, Sam Products Pvt Ltd is into fabrication of clean room products such as air showers, fan filter units, air curtains, laminar flow benches, pass box, filter terminals, clean air mobile units, etc.

They also undertake turnkey Projects to design, develop, plan, supply, execute, install & validate clean rooms for their customers from pharmaceuticals, automobiles, electronics, to labs, printing, and many more industries and peripheries.

Sam Products' team of well experienced staff since 1992, with a thriving urge to take on the difficult, has been working with their customers to find or innovate solutions. Their products are developed by the in-house team and in recent years they have added following :

- longest air curtains measuring 11' single pcs.
- long tunnel type air showers measuring more than 23' deep.

- mobile clean rooms to suit telecom industry.
- high air velocities in air showers of upto 41m/s.
- more models of ultra high air speed measuring more than 26m/s to cover bigger openings.

Very recently they have developed a new machine for blood banks, named as cool tab. It assists to save the precious RBC & WBC for longer life without any change in temperature. The product has already been tested & is being used widely in Indian blood banks such as Medanta-Gurugram, Indian Army blood banks, and more.

Their products are validated by technical inspection services - TUV India, TUV Nord before being used by customers such as Jubilant Life Sciences Ltd for Niacinamide Production Areas.

Sam Products would be present at ACREX 2018 for any queries regarding their product range.

## ACREX Exhibitor Preview

### Robertshaw® Showcases Ranco® India First Refrigeration Control at ACREX 2018

Itasca, Illinois, USA based Robertshaw®, a leading global provider of components, systems, and services used in the appliance industry and in heating, air conditioning, cooking and refrigeration for the residential and commercial markets, is showcasing two new Ranco® refrigeration controls at the annual ACREX Expo, February 22–24, 2018 in Bengaluru, India.

The Ranco® Frost Fizz Defrost Control is an India first – offering consumers a low cost defrost timer for a single door refrigerator that is simple to install and saves energy. The control’s ability to eliminate ice accumulations in refrigerators, to automate the defrost cycle, and to reduce electricity operating costs are just a few of the reasons customers are raving about this product in online reviews.

The Ranco® Digital Process Controller is also an India first.



This low cost electronic control is easy to install in industrial and commercial refrigeration and heating display units to monitor the temperature. It sips energy, consuming only three (3) watts, making it one of the most energy efficient controls available. Installers appreciate the easy-to-use programming with simple commands to complete customer installations quickly and efficiently.

Both products are manufactured in India.

As innovative pioneers in the manufacturing of refrigeration controls, Robertshaw’s engineers have designed and developed electronic and electromechanical thermostats and defrost timers for over 100 years. See these India-first products at the Robertshaw stand, C60 in Hall 3A, at ACREX India 2018.

## NürnbergMesse Speaks

### Build Fair Alliance @ Acrex India 2018:

### Covergence of innovation, opportunities and collaborations

Modifying the commonly used phrase, I would like to say, “With great responsibility comes the great path of learning and trendsetting”. Truly so, this edition of ACREX India has brought to us deeper insights, greater levels of hard work and eventually the fortuity of delivering a very fulfilling successful event. The response of registrations and participation has been stupendous, and fuelled the team with bigger excitement and drive to perform more than our fullest.

This Build Fair Alliance at Bangalore shall not only be the showcase of concurrent exhibitions, but multiple other interesting events, aiming to create bigger synergy among building services solutions providers. It is the place to be at. See you all there!



**Sonia Prashar**  
Chairperson of the Board  
& Managing Director  
NuernbergMesse India Pvt. Ltd.

Organiser: Event Producer: Endorsed By: O2C Supported By:



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### FULLY FUNCTIONAL HIGH PERFORMANCE EXHIBIT FOR A GREENER TOMORROW



at



22 - 24 FEBRUARY 2018, BIEC, BENGALURU

#### PRANA AT BANGALORE

- Prana - Full functional exhibit of a high performance Home Office
- Conceived by ISHRAE
- Architected by Mistry Architects
- 300 Sq.mt Area with Lobby, Living, Dining, Conference
- External Wall using hollow Clay Blocks
- Old Doors and Windows reused
- High performance Windows/Facades
- Radiant Cooling system
- Chillers with simultaneous cooling and hot water generation
- Low flow Plumbing fittings
- Rain Water Harvesting
- Solar Photovoltaic Cells for Power Generation
- Solar Powered Refrigerator
- Green Landscaping
- Energy Efficient Light Fixtures
- Monitoring of the energy produced and consumed during Microprocessor based Controllers



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## IMPRINT



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