



ISHRAE Speaks

The multitude of promises that ACREX 2019 brings for as India is on a fast track to development and success



Mr. Kapil Purandare
Convener - ACREX 2019

We are on the cusp of exciting times leading into the election year, with India becoming the world's fastest growing major economy, surpassing China. Irrespective of the challenges being thrown from multiple directions, the Indian juggernaut roars on towards its rightful position in the world economy-is the world's sixth-largest economy by nominal GDP and the third-largest by purchasing power parity (PPP).

The tremendous international attention being drawn towards India as a country is a proof enough from the huge foreign direct investments – topping US \$ 60 Billion in 2017-18! The “Make in India” initiative has propelled the manufacturing sector attracting 40 % of the FDI, encouraging both multinational as well as domestic companies towards capital and technological investment - manufacturing their products within the country, thus creating jobs & skill enhancement.

New generation technologies, regulatory changes, digitized applications constantly challenge the dynamic levels of performance for future growth. The consumer stands to benefit with a vast number of products tailored through innovative means of logistics, delivered at your doorstep. Infrastructure (Metro, Airports, Roads, Rural Electrification, etc.) which will sustain India for the future generations are witnessing a new spurt – being extended to the Tier 1 /2 cities & in cases (rural electrification) to the remotest village.

ACREX 2019 Seminars & Workshops are an excellent platform which amalgamates the future trends and will hold court with some of the best knowledge speakers in their respective fields – there are programs to suit the area of interests in Energy Efficiency, Healthy Buildings, Indoor Air Quality, Refrigerants, IOT apart from engaging sessions from International Associations - USGBC, REHVA, CEEW, AAR, IAQA & ASHRAE.

February 28, 2019 will mark the commencement of the largest ever ACREX, in the heart of the commercial capital of India – Mumbai! This is the time when all that matters are to witness the showcasing of the latest products, technology, solutions, capabilities, knowledge-spread across various identified segments in Components & Services, Ventilation, Air-conditioning, Clean Rooms, IAQ & Building Automation. ACREX 2019 spanning 3 days will help the visitor get updated on Engineering Design, Procurement, Project Management, networking opportunities, executing business transactions, not to mention catching up on old friends!

The 600+ exhibitors, 25 + countries, 50,000 + visitors will cover the Indian & International landscape & will be the business exhibition which is a must attend on your list. ACREX offers tremendous opportunities for Exhibitors, Customers, Architects, Consultants, PMC',



Contractors from various Building & Allied Industries to reach out & get engaged in the largest B2B exhibition in India.

The Host Committee consists of a plethora of professionals who work with the single focus in

Exhibitor Updates

YES! Indoor Air Quality Matters...

There are numbers of surveys already been done by various companies and media houses about Bad IAQ (indoor air quality) and its effects on human body and mind. Many chronic and even deadly diseases like asthma, lungs infection, cancer, depression etc., are few of them; its effect being even worse than what we can imagine.

First, we need to acknowledge that indoor air quality does matter deeply to us and to our well-being. We need fresh air in our home, in our office, in every closed air-conditioned or non-air-conditioned. We have to ensure our home and office air must be fresh and healthy.

And amongst the multiple solutions available in the market, one such efficient and effective solution is a Mechanical Ventilation System called ERV/HRV (energy/Heat Recovery Ventilator). The product very easy to install, maintain, user friendly, energy efficient, without taking any bulk space it keep your indoor air fresh and healthy round the clock.

Due to lack of awareness amongst architects, consultants, builders & building professionals, they lack the concern about ventilation of air conditioned buildings. As a result, the occupants in buildings suffer. Those who are aware about bad IAQ effects are adopting ERV technology in every site.

ASTBERG Ventilation™, ab Brand of Ceamen Electronics, took an initiative with a commitment to take this issue of bad indoor air head-on for its clients and give them high quality and fresh, oxygen-rich air to keep them healthy & fresh round the clock.

mind-ensuring superior VEP (Visitor, Exhibitor, Partner) Experience at ACREX 2019. We welcome one and all to join the community and make this the most successful ACREX ever!



Indoor air in home/office often contains significantly more unhealthy pollutants than outdoor air, making it a significant contributor to poor indoor air quality. A mechanical ventilation system (ERV/HRV) can be used to improve indoor air quality by exchanging indoor air and brings in fresh air from outside, while second air stream exhaust stale indoor air to the outdoors.

It is desirable to maintain the same amount of incoming flow to outgoing air flow. This is referred to as a balance ventilation system and ERV also transfers both the sensible and the latent heat between air streams. In a result, it does not increase heat load of air conditioner.

There are three air filters:

G4 (dust Filter) Active carbon Filter (for smoke & smell). HEPA (f7), for germs & bacteria.

Filtration of air before reaching heat exchange core ensures that you get clean, fresh and healthy air.

5 Ways to Improve Indoor Air Quality

1. Minimize Chemical Pollutants

Avoid Smoking indoor or in office premises, choose low VOC emitting products in office set-up and Control car exhausts in the office premises

2. Maintain maximum cleanliness in the office premises

Clean office furniture covers on weekly basis to reduce exposure to allergens, including dust mites. Place walk off mats/Carpets at & High Efficiency Particulate Air (HEPA) vacuum cleaners with disposable bags and micro fiber cloths.

3. Control Moisture

Control relative humidity levels to less than 60 percent, using dehumidifiers. Clean humidifiers frequently. If mold grows on any porous materials, like drywall, ceiling tiles or wood, discard and replace. Plants can improve indoor air quality by filtering carbon dioxide; however, if they are over-watered, they can encourage mold growth.

4. Ensure Proper Ventilation

Open doors and windows when temperature and humidity levels permit. However, be mindful of outdoor allergens during spring and fall seasons. Make sure that mechanical filters are in place.

5. Maintain HVAC System

Make sure that fuel burning furnaces, fireplaces, heaters, range tops, exhaust fans and other appliances are vented to the outside well away from windows and heating ventilation and air conditioning (HVAC) intakes.

Exhibitor Preview

A brand new product launch at ACREX'19 by Greencon

With large part of Indian subcontinent covered under temperate climate zone, the need of the hour is to implement alternate technologies to conventional air conditioning system which are more adaptable to Indian conditions.

With the increase in awareness on IAQ & sustainable mixed mode building designs, Indian market continues to witness fast pace growth for energy efficient evaporative cooling solutions. Modern air cooling systems are fast replacing conventional energy consuming air washers, lowering CAPEX & OPEX substantially.

Greencon in its zest to provide unparalleled energy efficiency products, have received overwhelming response and acceptance to its new generation “E Series” machines which provides an electronically controlled modular ductable air cooler option to conventional cooling products. Each machine comes with host of features like, Corrosion free body, Inverter drive, Variable air speed, Auto Temp / RH controls (within Psychrometric limits), Auto filter & water cleaning & very low power consumption.

Apart from conventional dual stage cooling units Greencon also offers Hybrid “D-X Series” moving a

step ahead to provide hybrid air cooling solution which automatically switches over to conventional air conditioning from Dual stage Air Cooling systems and provide perfect indoor air conditions during those few hot / humid operating days.

Continuing the tradition of providing innovative product solutions, Greencon further invites to witness first of its kind "F Series" product launch, a product specifically designed for low ceiling height apartment spaces with ultra-low power consumption & sound levels. F series could be live experienced in ACREX 19 at stall no K77 at Mumbai.

F-Series

Designed to suit in modern apartment's with ultra-low power consumption, the F-Series is a revolutionary product for Greencon. It is a modular ductable air cooler with ultra-low power consumption. It is designed for low ceiling height apartment spaces with ultra-low power consumption & sound levels. It is a perfect solution for modern apartment spaces. It is a perfect solution for modern apartment spaces.

Model	Capacity (Liters/hr)	Power (Watt)	Sound Level (dB)	Dimensions (mm)	Weight (kg)
GC-F-01	100	15	22	200 x 100 x 100	1.5
GC-F-02	200	30	24	300 x 150 x 150	3.0
GC-F-03	300	45	26	400 x 200 x 200	4.5
GC-F-04	400	60	28	500 x 250 x 250	6.0

Comfort desired for Small Spaces



Exhibitor Preview

The art of handling air

LabcontrolSystem - a multifaceted, multi-application product from Trox Technik

TROX® TECHNIK
The art of handling air

Since its foundation in 1951, TROX has been developing sophisticated components and efficient systems for ventilation and air conditioning as well as for fire and smoke protection. Dedicated research has made TROX a leader of innovation in these fields. TROX has developed from a mere component manufacturer and systems supplier to a 'one-stop shop'.

The level of interaction between technical building services can make or break the whole system. This is why TROX offers everything from a single source. Air handling units and ventilation components and systems complement each other perfectly. This results in maximum energy efficiency while the coordination effort during the design and installation stages for a project is reduced to a minimum.

Air handling technology is of decisive importance in sensitive areas such as laboratories, hospitals, research institutes, livestock facilities or in clean room technology. Without a functioning and reliable ventilation system, these areas would not be able to function correctly.



For many years, TROX has dealt with these special requirements, is a member of the standardisation committees for these areas and provides the appropriate components for achieving the relevant objectives. A market success for almost 15 years, the LAB CONTROL system, which is constantly adapted to the demands of the market and successfully used in laboratories, is a prime example.

Principal advantages of LAB CONTROL controllers

- Double function test

- Check of the electronic control component (controller)
- Check of the airflow on the VAV terminal unit including controller
- Factory setting of all volume flow rate ranges and functions for all controllers as defined in the order
- Certification of the fume cupboard controllers to EN 14175, part 6, by an independent testing authority
- Experience gained from more than 60,000 installed LABCONTROL volume flow controllers worldwide

Areas of application and advantages

LABCONTROL systems consist of an electronic controller, an actuator and a control panel, and can be combined with VARYCONTROL VAV terminal units TVR • TVRK • TVLK • TVT • TVJ • TVZ • TVA • TZ-Silenzio • TA-Silenzio • VMR • VMRK.

High-quality actuators

For rapid response control systems, TROX relies on fast-running, modulating actuators since affordable three-point actuators (PWM technology) cannot always achieve the required minimal damper movements. Actuators with a three-point design need minimum pulse durations in order to achieve the required torque and thus prevent very small positioning movements.

The precision of these high-quality actuators with internal position recording, permits a precise positioning of the damper blade to 0.5°.



This is an important advantage particularly for room pressure control. A torque of 8 Nm and a brushless actuator guarantee a precise positioning of the damper blade at any time and thus a long service life.

Static volume flow rate measurement

EASYPAC uses only static measurement transducers as they offer the following advantages:

- Resistant to contamination, with room air induction as an additional advantage
- Rapid response measurement
- Long-term stable volume flow rate measurement due to automatic zero point correction

LABCONTROL system vs. VARYCONTROL

The greatest difference is in speed. VARYCONTROL units generally need about 120 seconds. EASYPAC

controllers need only about 3 seconds.

Rapid response

While the response time of VARYCONTROL standard controllers is usually about 120 seconds, this time is reduced to about 3 seconds in the case of EASYPAC/TCU-LON-II controllers.

These rapid response times ensure that no outbreak of hazardous substances can occur, e.g. in fume cupboards with variable, demand-based extract air. For sequence control loops, these rapid response times enable stable room situations that ensure room pressure conditions according to the requirements of DIN 1946, part 7.

Dedicated actuators move the damper blades such that the set point value is reached quickly and precisely.

Exhibitor Preview

New BACnet MS/TP interface for connecting up to 64 BACnet field devices

BECKHOFF

In addition to BACnet/IP, Beckhoff now also supports BACnet MS/TP (Master Slave/Token Passing) with the EL6861 EtherCAT Terminal. This serial interface can be used to directly control and monitor BACnet-compatible field devices, such as pumps, drives, frequency converters or similar, as sub bus systems, without the need for additional gateways or routers.

Up to 64 devices with RS485 low power transceivers can be connected. Additionally, several terminals can be operated in parallel to scale the number of MS/TP channels that can be supported.

Using the 1-channel BACnet MS/TP interface, hardware and engineering costs can be significantly reduced since configuration is performed centrally in the Twin CAT System Manager and external devices, such as routers or gateways, do not need to be connected. Combined with the BACnet MS/TP driver integrated within

TwinCAT automation software, the terminal implements the BACnet protocol in compliance with Revision 12. The terminal can also be used locally without routing to the BACnet/IP network.



“The EL6861 EtherCAT Terminal now allows connection of up to 64 devices with RS485 low power transceivers.”

The RS485 interface guarantees high interference immunity through electrically isolated signal transmission. The EL6861 provides 1 x 5 V DC at 20 mA (electrically isolated, short-circuit-proof) from the E-bus supply for use with the bias resistors (network bias).



Partner Feature

Tecumseh Products Company

Founded in 1934, Tecumseh Products Company is a leading global manufacturer of hermetic reciprocating, rotary and scroll compressors ranging in capacity from 1/15th to 6 horsepower, as well as offering a complete line of condensing units and systems for use in residential and commercial refrigeration and air conditioning applications.

Tecumseh products are manufactured on four continents and sold globally through a network of sales professionals, authorized wholesalers and licensed distributors offering brand names that include: Celseon®, L'UniteHermetique®, Masterflux®, Silensys®, and Wintsys®. Tecumseh Products Company is headquartered in Ann Arbor,

Michigan. For more information, visit our website at www.tecumseh.com

Tecumseh has Strategic Partnerships with leading Brands in the Refrigerator, Air-conditioning and Commercial Refrigeration Applications in India and overseas.

Tecumseh's plant at Hyderabad manufacturer's compressors for Air Conditioning Applications and its second plant in Ballabgarh (Near Delhi) manufacturing compressors for Domestic and Commercial Application. India region is headed by Mr. Jegapriyan Govindarajan- Managing Director for India Region.



**MORE THAN
500 COMPANIES
FROM 30 COUNTRIES
BELIEVE IN ACREX INDIA
AS THE RIGHT BUSINESS
PLATFORM**

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LARGEST EXHIBITION
ON AIR CONDITIONING,
HEATING, VENTILATION
AND INTELLIGENT
BUILDINGS**

ACREX
India 2019

28 February - 2 March 2019
Bombay Exhibition Centre, Mumbai



Exhibitor Feature

Change in management at Euroclima (India)



Since 1963, Euroclima has been one of the leading providers of customized air conditioning and ventilation systems. They specialise to develop, manufacture and commercialize high quality air handling products for all applications, from basic comfort to health care, process air and installations with highly efficient heat recovery systems.

Euroclima has extensive international operations and 5 manufacturing facilities in Italy, Austria, India and UAE and more than 36.000 m² of production area and are specialists in the manufacturing and worldwide distribution of air handling units and fan coil units.

The brand strives to exceed the expectations of customers by innovation, quality and comprehensive service. More than 450 employees are currently employed. Euroclima has a well distributed network of sales and service all over Europe, Asia, Middle East, Northern Africa and Australia. Their partners in various countries assume a regional covering responsibility for marketing, local servicing and optimal assistance.

Recently, the company has announced the appointment of their New Managing Director and Partner Mr. Kailash Purushottam Khairnar, an avid businessman known for his market leader air products brand, Airpro Engineers Private Limited. With a vast two and a half decades' experience in various aspects of the combined air distribution products business, he brings to the table a sharp business acumen, enabling Euroclima to scale new heights in the Indian Sub-Continent.



“This is a very exciting and at the same time very thrilling time to join hand with such an ambitious global firm. Euroclima is in process to reinvent the business and serve the customers more better. Time could not have been more right and I’m looking forward to the challenges of the new role as India Managing Director.

One of the main tasks that I am going to be working on is reinvigorating the existing relationships with our customers by strengthening our existing partnership. Alongside, I would also like to re-energize the India business that hasn’t been able to penetrate deeper with our excellent technology and product.” -Kailash Purushottam Khairnar

Manuel Conci, the Managing Director of Euroclima Group added, “Kailash’s wealth of experience in Air Distribution Products and proven track record of the market leader brand made him the obvious choice for this key senior role within Euroclima.

He truly understands the importance of partnership and trust; values that absolutely underpins and drive Euroclima’s approach to support customer. We wish him all the best for his new role and are 100% sure that his presence will make Euroclima a numero uno in India.”

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