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ACREX
India 2018

22 - 24 FEBRUARY 2018

Bangalore International Exhibition Centre (BIEC)



ACRO NEWS

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Partner Preview

Caryaire Group: Quality, Service and Innovation

A peek at the wide and promising range of products

CARYAIRE
NICOTRA|Gebhardt

Caryaire Group, comprising of the brands, Caryaire, Nicotra|Gebhardt, MM Metacraft, Caryslim, Carypure and Carysoft, is a 25+ Years Company, built on a solid foundation of Quality, Service and Innovation.

Over the years the Caryaire Groups' product portfolio has evolved tremendously, now catering to the various segments in Air Terminal Products, Air and Sound Control Products, Fire & Smoke Safety Dampers, Inline Fans, Hydronic Fan Coil Units, Air Purification Products, Centrifugal and Axial Flow Fans, Kitchen and Smoke Exhaust Fans, Industrial & Process Fans, Aluminium Extrusions and Carysoft Business ERP Solutions.

Caryaire Group is headquartered in NOIDA and has over 150,000 Sqft of Manufacturing and Warehouse Space in Noida and Bhiwandi (Maharashtra). With branch offices in Mumbai and Bangalore and representation through dealers and distributors, the company marks a strong presence in every major city in India and seeks to continually look for new dealer relationships to spread the reach further.

Caryaire's Latest Product Launches

LVLS Fan: Large-volume low-speed fans

Caryaire is very proud to offer LVLS Fans, **Designed and Manufactured in INDIA - First time ever!**

LVLS fans move slowly and distribute large amounts of air at low rotational speed - hence the name "large volume, low speed." Typical applications for LVLS fans fall into two classifications - industrial and commercial. In industrial applications, air conditioning is often cost

prohibitive or impractical. Fans installed in spaces like warehouses, barns, hangars and distribution centers can prevent heat stress, increase worker comfort and the productivity of both workers and livestock.

LVLS fans are also used in commercial spaces, where air conditioning is more common, but increased air movement from ceiling fans can cost-effectively increase occupant comfort or prevent stratification. Typical commercial applications include Railway stations, Temples, Gurudwaras, fitness centers and Auditoriums.

Caryaire's state-of-the-art, 5 blade LVLS fans with aerodynamic blade design meet the demand of such applications. Our Fans are equipped with a Robust Motor and a Variable Frequency Drive (VFD) to control speed and thereby airflow.

UL555/UL555S Certified Fire and Smoke Dampers



Since Early 1990's Caryaire has been synonymous with high quality Fire and Safety products. These Fire and Smoke Safety devices have been installed in thousands of buildings in India, and will be saving lives in case of a fire emergency.

Caryaire makes a proud announcement to have recently received the UL555 and UL555S certification for range of Fire and Safety Products. UL555 and UL555S are very stringent Standard to measure and rate Fire and Smoke Products.

The Combination Fire and Smoke Damper (FSD-B-U) series is certified to withstand 90 minutes of Fire, and is certified to be Class 1 Leakage Rated at an elevated temperature of 350 Deg F (the best leakage rating possible).



The Fusible Link Fire damper (FLD-S-U) series is also certified to withstand 90 minutes of Fire and is certified for both Static and Dynamic Conditions

With this Certification, these dampers have become the 1st Indian designed and engineered product to receive this coveted distinction. **Jai Hind!**

Carypure High Performance Air Purifiers

First Indian manufactured & designed Air Purifiers

Carypure has unleashed its war on Indoor Air Pollution with its High Capacity, High Performance range of Air Pollution Control Devices, CARYPURE !

Carypure Air Purifier range offers superior grade, long life multi stage filters, with unmatched performance. Carypure arrests the harmful gaseous, airborne and microbial contaminants and helps you Breathe Better.

Nicotra Gebhardt Smart Fans - Revolution in Fan Industry!

Nicotra Gebhardt India unleashes its new series of Smart fans: DDMP & RDP, Direct Drive Double Inlet & Double with fans with DC brushless motors, that can be



controlled through a laptop or a tab. These fans are plug and play type with top rating efficiency, having extremely low noise levels and high reliability. Even without any sensors, these fans can deliver constant airflow or can work on constant speed operation

Widest Range of Electronically Communicated Fans

Nicotra Gebhardt has the widest range of energy efficient DC brushless fans. Customers are constantly reached out and educated to demystify the common myth that plug fans are the only solution for a direct drive and EC application. Nicotra Gebhardt offers the biggest range of fans that can be used as Direct Drive fans & fit EC motors.





THINK

your indoor air is safe?

Think again



Common Myth - All green buildings have quality IAQ.

While the aforementioned studies both point out that the green buildings they researched have achieved better results from their occupants, it is important to note that the label “green building” can be deceiving in some instances because some certification programs do not prioritize IAQ.

In an article appearing in the journal Building Environment, researchers from the University of Melbourne, James Cook University, UC-San Diego and the Technical University of Denmark address the often tenuous relationship between “green” buildings and IAQ, finding that some green practices

have unintended effects.

“Green buildings have the potential to promote more favorable IAQ,” writes the research team. “However, ‘green’ does not necessarily guarantee good IAQ. Certification schemes may provide inadequate incentive in the credit system for improving IAQ.”

The only way to ensure that your building - green or not - is providing healthy IAQ is to be proactive in providing proper ventilation, the best possible filtration, regular maintenance and cleaning and diligent testing.



22 - 24 FEBRUARY 2018, BIEC, BENGALURU

**SMART HVAC&R
TECHNOLOGIES
FOR SMART BUILDINGS
OF THE FUTURE.**



Special attraction:



Fully functional high performance exhibit for a greener tomorrow

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An Initiative by ISHRAE

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On a lighter note



Customer: "What are you doing?"
AC tech: "I am charging the system"
Customer: "So I don't have to pay?"

Got a call from an auto parts store in a bad part of town. The owner said the outside unit was tripping the circuit breaker in the store immediately each time he reset it. He called back a few minutes later and said: "Never mind. I found the problem. Somebody cut the wires and stole the outside unit"

The AC tech came back in from the outside unit with his face swollen from bee stings and said:

"I think I've located the source of that buzzing noise".



Exhibitor Preview

Testo's Smart World of HVACR



With the increase in the demand of test and measurement instruments and the advancement of technology that we are observing, T&M industry has experienced a big shift from manual to automated processes & the results are also evident. Testo India strives to provide exactly what is required.

Introducing Testo's range of instruments that are not only precise or efficient, but are also smart & networked to match the increased demand for accuracy, consistent operation of instruments, auto alerts and safety features – something that, beyond an extent, is difficult to attain manually. **Testo Smart Probes**, which are Bluetooth enabled and can be connected to your smart phone via an app, can make problem detection, data measurement and report generation possible on site, saving time and money both. This product even comes in separate, easy to carry Heating, VAC & Refrigeration kits, which is a one-stop solution for HVACR contractors and consultants. Testo has a range of Bluetooth enabled electronic

Be sure. **testo**



refrigeration manifolds that not only helps to measure pressure but also calculates accurately the sub-cooling and superheating temperatures, based on the refrigerants selected.

Keeping in mind the government initiatives for green & efficient technology, accompanied by the infrastructural renaissance and growing power and



ACRONews

energy concerns, Testo's biggest service to the entire HVACR industry has been by providing several smart products and technologies.

The Testo 420 Air Capture Hood, a new innovation for measuring the air volume flow has made the measurements easier even at the turbulent inlets/outlets with its very unique revolutionary & patented features. These pro measuring instruments can be intuitively operated by smart phone via a free App. Testo also has **digital vacuum measuring instrument** like Testo 552 for the evacuation of refrigeration/air conditioning systems and heat pumps.

Surely, Testo measuring instruments are significantly different from the rest available in the market with an edge of advanced latest technologies. They also offer certified calibration according to all valid guidelines that distinguishes them from the market. The calibrations take place at Testo's own accredited high-tech laboratory at the facility in Pune so that the instruments can be calibrated & serviced locally, maintaining high international standards.

To sum their profile, Testo is recognized as the leading worldwide manufacturer of portable measuring instruments for various parameters and aims to

provide the best quality, service and value in the industry.

For more info, you can write to info@testo.in or visit www.testo.com



ACREX Partner Insights

Drivers of HVAC technology

The learning curve and exciting future of fresh challenges

Authored by: Mr J M Bhambure, Executive Vice President, R&D and Technology



AC&R products have contributed extensively to the enhancement of industrial as well as commercial productivity, along with aiding in reduction of food wastage to a large extent.

In the late twentieth century, concerns about the environmental impact of these products gained significance. Several countries took steps to curtail the same, including a legal framework which was put in place by the United Nations member countries to phase out chemicals; voluntary programmes by individual countries for improving the energy-efficiency of AC&R products; and focus on refrigerants with zero ozone depleting substances as well as low global warming potential; with sustainability emerging

as the driver of such technology. For the first time, the 2016 Kigali Agreement addressed the usage of refrigerants as well as their energy-efficiency.

The Bureau of Energy Efficiency, India introduced the mandatory star-labelling programme for room ACs in 2010, which is upgraded every two years. The 2018 programme, amongst the most stringent in the world, has been developed in this direction especially for Indian climatic conditions. The same process has been initiated for chillers, which will be followed by VRF systems. By 2018, the average efficiency of a room AC sold in the Indian market is anticipated to be higher by around 35% as compared to pre-2010 levels, with inverter technology dominating the market.



**Blue Star's
VRF IV Plus
system.**



Product efficiency improvements may soon reach a saturation point, and system efficiency with an integration of various sub-systems and controls will become critical in reducing energy consumption. Electronics and communication will play a major role, equipped with facilities of real-time performance and predictive maintenance. With the aid of computing capabilities and sensors, complex algorithms will optimise the working of products by integrating location-specific conditions. Sensors will even evolve to capture data of real-time conditions such as occupancy, motion, filters, and clogged as well dirty coils. The core of the systems is expected to alter from heat

exchangers to controller algorithms, with products becoming more intelligent.

In the above scenario, the challenge which will be faced by the industry will be to acquire and hone a fresh set of skills for manufacturing, developing, and maintaining these intelligent products and systems, along with service technicians who are continuously trained to handle sophisticated diagnostic tools. Overall, the near future is exciting and evolving as the industry is gearing up to meet sustainability.

Blue Star's VRF IV Plus system can be remotely operated using an advanced mobile app.



Have you planned your trip to ACREX?

Booking advisory - Time starts now!

Bengaluru will host ACREX'18 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 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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ACRONEWS

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Social Media Connectivity Partner



Silver Partners



IAQ Pavilion Partner



Bronze Partners



SUPPORTING ASSOCIATIONS



International Partner for ACREX'18

AHRI takes the Lead on Global Standards Harmonization



The Air-Conditioning, Heating and Refrigeration Institute's (AHRI) world-class performance certification program relies on industry standards to test and certify the equipment. AHRI and its engineering committees serve as a forum for the development of technical performance standards for industry equipment.

AHRI standards establish rating criteria and procedures for measuring and certifying HVACR manufacturers' efficiency and performance claims for their equipment.

The standards are responsive to stakeholder needs and product innovation, and AHRI keeps its standards current and technically relevant through a periodic maintenance cycle.

AHRI has published more than 100 testing and performance rating and application standards for residential, commercial and industrial air-conditioning, heating, water heating, and refrigerating equipment. AHRI standards include both international system of

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units (SI) and imperial/U.S. (IP) units to address the need of users around the globe.

Many AHRI standards are published as American National and/or Canadian National Standards through accreditation by the American National Standards Institute (ANSI) and/or the Standards Council of Canada (SCC). Accreditation by ANSI and SCC provides assurance that AHRI standards, goods, and services meet essential requirements throughout the global supply chain - earning consumer trust and fostering competitiveness.

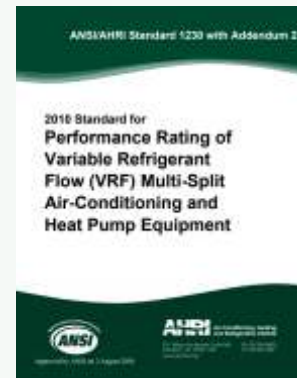
Accreditation by ANSI and SCC also signifies that the procedures used by the standards body to develop an American National Standard and National Standard of Canada meet requirements for openness, balance, consensus, due process, and other safeguards. These standards are developed in an environment that is equitable, accessible, and responsive to the requirements of various stakeholders by providing an opportunity for volunteers from materially affected and interested parties to participate in the standards development process. All AHRI standards development meetings are open for public participation and are announced on AHRI's website.

As an ANSI-accredited standards development organization, AHRI has accepted and complied with the Code of Good Practice, which means that AHRI standards are not technical barriers to trade, do not duplicate and overlap with other standards, and adequate opportunity is provided for World Trade Organization members to provide comments on the standards.

AHRI works closely with several non-North American standards developers and governmental agencies.

AHRI's goal is to improve standardization across the globe to facilitate trade, build new markets, and boost economic growth for the HVACR industry.

AHRI's work in India is especially important to these goals. Cooperation with ASHRAE, the Indian Society of Heating, Refrigerating and Air-Conditioning Engineers (ISHRAE) and the Refrigeration and Air-Conditioning Manufacturers Association of India (RAMA) is a primary goal for AHRI. In addition to ASHRAE, ISHRAE and RAMA, AHRI has signed numerous agreements with industry organizations in the United States and other countries to facilitate standards harmonization and works continuously with partners across the globe to establish agreements working toward standards harmonization. AHRI is also working with the Saudi Standards, Metrology and Quality Association (SASO) and the UAE's Emirates Standardization and Metrology Authority (ESMA) to further harmonize HVACR and water heating testing and rating standards globally.



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