

Press release

HUMISONIC, EFFICIENCY AND EVOLUTION

The AHR exhibition in Mexico saw the world preview of the new humiSonic range of ultrasonic humidifiers

Brugine (Padova), 20 October 2015

The world preview of the new humiSonic range of ultrasonic humidifiers took place at AHR in Guadalajara where CAREL showed the Latin American market its latest innovative and energy-saving humidification and air-conditioning solutions.

humiSonic, the meeting point between performance and energy saving

The humiSonic family has been upgraded and extended: the product for fan coils and showcases (**humiSonic compact**), already widely available on the market, has been joined by a version for direct room humidification (**humiSonic direct**) and another for duct installation (**humiSonic ventilation**). humiSonic is a compact plug & play solution.

The extension of the range also coincides with an improvement in performance: 10,000 operating hours guaranteed, 10% energy consumption and 1 µ water droplet size. This means maximum reliability and minimum maintenance, 90% energy savings compared to a steam humidifier, and almost instant complete absorption of the atomised droplets.

Energy saving

Very low energy consumption (less than 80 W per litre of atomised water) makes humiSonic the ideal solution for datacentres and all applications where humidity control can be managed exploiting part of the sensible heat generated inside the controlled environment. These low running costs ensure humiSonic a return on investment is just a few months.

Hygiene and precision

The components in contact with the demineralised water are made from stainless steel, and the main body is designed to prevent stagnation of water at the end of the humidification cycle. Moreover, the electronic controller manages periodical washing cycles in the event of system inactivity.

Its hygiene features, together with guaranteed humidity control precision, make humiSonic also suitable for more demanding applications, such as cleanrooms.

Mission Critical DNA

By running humiSonic on demineralised water, operation of the piezoelectric transducers is guaranteed for 10,000 hours. This ensures service continuity in critical applications. Consequently, routine maintenance is also drastically reduced.

humiSonic direct

The features of the new humiSonic direct highlight its versatility, being suitable for every type of application: datacenters, museums, offices, printing facilities and cold stores are some of the compact and efficient unit's typical uses. To satisfy all these different needs, the unit is available in different sizes, up to 8 kg/h.

humiSonic direct is a single solution comprising both the control panel/power supply and the air humidity probe. It is a compact stand-alone system that is easy to install. The care to details can be seen in certain technical and aesthetic features, such as the anti-drip design and thin jet or "blade" of air delivered from the front of the unit. It can also be easily integrated into a BMS via an external signal (for example 0 to 10 V, 4 to 20 mA) or via a serial connection using the Modbus protocol.

humiSonic ventilation

humiSonic ventilation provides adiabatic humidification even in compact-sized ducts. Placed directly in the air stream, humiSonic ventilation atomises water into very fine droplets, which are instantly absorbed.

humiSonic ventilation comprises two parts: the main body (containing the piezoelectric transducers), and the electrical power and control panel.

Available in different versions, from simple to more complex, and different sizes, up to 18 kg/h.

press information

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About CAREL INDUSTRIES S.p.A.

CAREL is one of the world leaders in control solutions for air-conditioning, refrigeration and heating, and systems for humidification and evaporative cooling. Our products are designed to bring energy savings and reduce the environmental impact of equipment and systems. Our solutions are used in commercial, industrial and residential applications. CAREL has 21 fully-owned subsidiaries and 7 production sites, as well as partners and distributors in a further 75 countries. For further information, go to www.carel.com