Zonal Drying™ System
Awards

Aviation Maintenance Chooses CTT Systems for Prestigious 2002 Editor's Choice Award

January 27, 2003

CTT Systems, provider of humidity control and condensation prevention in aircraft, was selected by influential industry publication Aviation Maintenance as a top product for 2002. The awards are granted each year to the companies demonstrating technology with trendsetting effects on the aerospace industry. The award also signifies the company's identification of a unique and revolutionary product solution with significant market potential.

Aviation Maintenance believes CTT's dry air technology will ultimately be standardized by Boeing and Airbus. The Zonal Drying™ System combats the effects of excess condensation in aircraft to prevent corrosion expenditures, electrical shorts and "rain-in-the-plane"

"The most interesting technological developments in aviation often come from small independent companies like CTT Systems," said Matt Thurber, Aviation Maintenance editor. "It is gratifying to see CTT's Zonal Drying™ System gaining rapid acceptance in the aviation aftermarket as operators learn about the benefits of eliminating harmful condensation inside airliner fuselages."

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Flight International Chooses CTT Systems as winner of the Prestigious Aerospace Industry Award 2000 in the engineering category.

February 01, 2000

Winner – CTT Systems – Commercial success of the Zonal Drying™ System.

"Last year saw the commercial breakthrough for CTT's Systems' Zonal Drying™ system with substantial orders from KLM (21 aircraft), LTU of Germany (one order and five options) and Swissair (19 Boeing MD-11s). In addition to its order success in 1999, Raytheon Systems selected CTT's de-humidification concept for the NASA/DLR Stratospheric Observatory for Infrared Astronomy project (SOFIA).

Last year also saw the system proving itself in service, having clocked up more than 100,000 flight hours on Martinair's six Boeing 767-300s.

The Zonal Drying™ system prevents the build-up of condensation in the space between the cabin and the aircraft skin. It distributes dry air in the space between the cabin and the aircraft skin, lowering the dew point and keeping insulation blankets dry. It comprises a rotor driven by a motor, a gearbox and belt drive. While slowly rotating, two separate airstreams, created by a high-speed electric fan on the inlet side, flow through the rotor. From one of the airstreams – process air – humidity is absorbed by the rotor and the air emerges as dry air.. About 20% of the total air flow of the other airstream – regenerated air – is heated by electrical elements before passing through the rotor, which then releases the humidity absorbed from the process air and leaves the unit through a separate outlet. The rotor is continuously regenerated so that it can absorb humidity from the process air.

The judges recognised the Zonal Drying™ system as an innovative approach, particularly in light of concerns regarding condensation and its effect on electrical systems and components.", says Flight International.