HONEYWELL TO PROVIDE MORE SUSTAINABLE, EFFICIENT THERMAL SYSTEM FOR LILIUM ELECTRIC JET

News / Business aviation, Manufacturer

Lilium selected Honeywell to provide its thermal management system for all-electric Lilium Jet. Honeywell Micro Vapor Cycle System to optimize cabin cooling and manage the aircraft's electric battery temperatures, both critical functions for enabling more efficient and sustainable flight. Honeywell and Lilium will partner to integrate the system into the Lilium Jet, which will also feature Honeywell Anthem Avionics, Honeywell-DENSO electric motors and Honeywell flight controls. The all-electric vertical takeoff and landing Lilium Jet, on track to start production later this year, will help create a more efficient, sustainable and accessible mode of high-speed, regional transportation for people and goods.

Lilium Chief Operating Officer Yves Yemsi commented: "In our collaboration with Honeywell, we've tapped into the numerous advantages of the MicroVCS, reinforcing the synergistic value with a single, innovative supplier providing multiple subsystems for the Lilium Jet. Honeywell's innovative subsystems offer a renewed perspective on aerospace possibilities."

Dave Shilliday, Honeywell vice president and general manager, Advanced Air Mobility, said: "The MicroVCS is a ready-now solution that embodies Honeywell's dedication to creating a more sustainable future for air travel. This technology is a great fit for Advanced Air Mobility vehicles, but

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its versatility also enables it to be seamlessly integrated into other applications, such as business aviation and defense aircraft.”

Honeywell’s MicroVCS high-speed, oil-free centrifugal compressor technology allows the system to be 22% lighter than conventional screw or scroll compressor-based vapor cycle cooling systems. This weight savings avoids 9,900 lbs. of CO_2 emissions per year in an Advanced Air Mobility aircraft.* Additionally, the MicroVCS uses Honeywell Solstice© zd refrigerant, with an ultra-low Global Warming Potential (GWP) of 1, which is 99.9% lower than R-134a used in competitor systems. Honeywell Solstice© zd provides 10% better hot-day power efficiency than the legacy R-134a refrigerant when used in an equivalent refrigeration cycle.**

Honeywell’s close partnership with Lilium shows its continued dedication to developing solutions that herald a more sustainable and advanced future for aviation. From autonomous technologies to thermal management solutions, Honeywell’s extensive array of aerospace products and solutions are at the forefront of the industry’s evolution.

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