



Electric Aircraft Battery Thermal Conditioning System

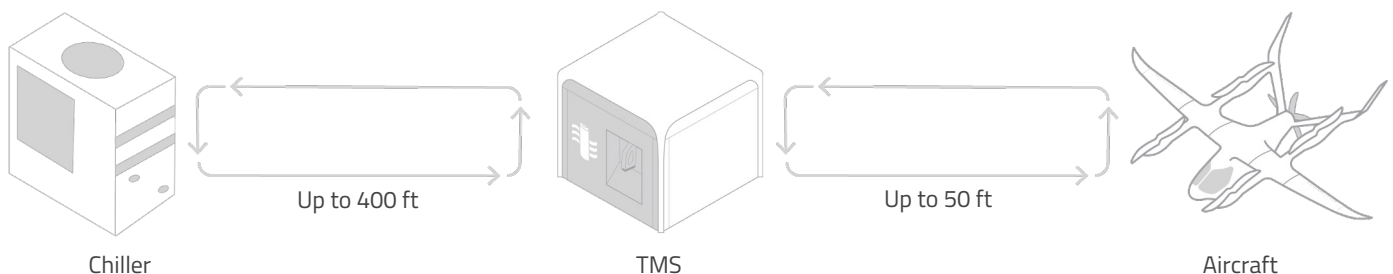


Thermal Management Cube

The BETA TMS manages battery temperature during aircraft charging to enable the highest charging speeds and the shortest turn-around times. It works by circulating a glycol-water mixture through the aircraft's on-board battery packs. The system uses two closed-loop heat-exchange circuits that include 1) a chiller unit and 2) a BETA TMS Cube. Together, these components actively condition aircraft batteries as they charge, preserving battery performance and safety while accelerating charge operations.

Site Connection

To be installed with Charge Cube



Thermal Management Cube

Battery Conditioning System to Support Fast Turn Operations



TMS Cube Specifications

Protocol	SAE AIR8487
Fluid Temperature	15°C to 40°C
Rate	60 lpm
System Pressure	60 psi maximum
Total Hose Length	50 ft

Dimensions	74 in x 74 in x 59 in
Weight	<4,500 lbs
Communication	via Charge Cube
Cube to Aircraft Fluid	Ethylene Glycol & Deionized Water
Chiller to Cube Fluid	Propylene Glycol & Water



AC Input Specifications

	TMS Cube & Chiller
Input Voltage	3Ø 400-480V
Input Current	40-60 A
Input Frequency	50-60 Hz



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