



Established in 1969, TAT Technologies designs, develops, and manufactures customized heat management solutions, including: air-air, air-oil, and fuel-oil heat exchangers; cold plates; and complete cooling systems for the most challenging airborne and ground applications. TAT also designs and manufactures flight critical accessories, including fuel control valves and pumps, as well as a proven line of robust military vapor cycle air conditioning systems for shelters, tents and vehicles.

Our worldwide customer base includes a broad range of leading commercial and military organizations. Our ability to provide clients with optimized, high quality solutions, on-time and to specification, has facilitated the establishment of long term relationships and enabled TAT to achieve a global reputation as a market leader for flight critical products.

TAT understands that its value proposition to its customers should not be limited to excellent performance and competitive pricing for OEM products; but rather must also include superior aftermarket service for maintenance, repair and overhaul (MRO), including the 24/7 availability of spare parts. This effort is supported by our US subsidiaries Limco Airepair and Piedmont Inc., providing a global reach to serve aircraft manufacturers, airlines and support centers in the US, Europe, Asia and the Pacific Region.

TAT Technologies is headquartered in Gedera, Israel. Together with our US and Israeli subsidiaries, we employ over 600 dedicated personnel. We are a public company with shares traded on the NASDAQ stock exchange (ticker "TATT") and thus provide our customers with complete transparency.

TAT Technologies offers "Cool Solutions for Hot Problems". If you are looking for Reliability, Commitment, Expertise and Dedication, TAT Technologies is your perfect Address.

ENVIRONMENTAL CONTROL SYSTEMS FOR AIRCRAFT

CUSTOMIZED SOLUTIONS FOR PASSENGER COMFORT



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TAT VALUE PROPOSITION

Single Source for Environmental Control System (ECS) solutions with a focus on passenger comfort and efficiency.

- Innovative designs for all sub-systems and major components:
 - State of the art, set & forget type systems with digital control & display.
 - Highly reliable bleed air management systems.
- Design support for the air distribution system.
- Streamlining of design, development and testing process.
- Streamlining of supply chain and cost reduction.
- Full after-market support through our FAA/EASA repair stations including 24/7 spare parts delivery.

TAT offers its customers a One-Stop-Shop for all their needs be it for air conditioning, heating, or a combination of the two in a single Environmental Control System. Whatever the aircraft - a business jet, a turboprop, a luxury piston engine aircraft or a corporate helicopter - our systems are designed to provide unrivaled passenger comfort and efficiency.

ECS & CONTROL PANEL

With a focus on human engineering, the digital electronic temperature controller assembly is the brain of the ECS, responsible for handling comprehensive input data from all subsystems and sensors and operating all subsystems to achieve maximum passenger comfort at maximum efficiency.

AIR CONDITIONING PACK

Vapor cycle cooling system (VCCS) provides cooling to the aircraft cabin and consists of the following major components:

- Compressor Assembly - variable displacement compressor controlling the cooling capacity of the system under varying flight and heat load conditions.
- Condenser Assembly using state-of-the-art fin & plate heat exchangers and brushless motor fans.
- Evaporator Assembly(s) offered in single and multiple units ensuring uniform comfort throughout the cockpit/cabin space. Assemblies feature state of the art fin & plate heat exchangers and brushless motor fans.
- Receiver Dryer Assembly - engineered to ensure long lasting, peak system performance.
- Built In Test and improved diagnostic capability of components.

HEATING SYSTEM

Provides heating via the ECS to the aircraft cockpit/cabin space. The source of heat and the way it is extracted is determined by the powerplant utilized on the aircraft. The Heating System comprises a heat exchanger, valves, mass flow meters and temperature sensors.

- For fixed and rotary wing turbo-engine aircraft hot compressed air is extracted from the Engine Bleed System through a stainless steel air-to-air heat exchanger to provide heat to the ECS.
- For fixed and rotary wing piston engine aircraft heat is extracted from the aircraft engine and/or its cooling systems. The method of extracting heat depends on whether the engine is of diesel or avgas type. We offer air-to-air exhaust gas heat exchangers, oil-to-air heat exchangers, or water-to-air heat exchangers.

The key to a truly integrated system is high efficiency, which ensures superior passenger comfort while minimizing weight, drag, and cost. As important as these issues are to large platforms, they are also of paramount importance to light aircraft.