

Aircraft Noise Silencers

APU Inlet and Exhaust Silencers, ECS Silencers

Aircraft Noise Silencers: for APU, ECS and Main Engines

ITT has been designing and manufacturing a wide range of noise reduction products for over 40 years. We specialize in products that attenuate noise of Auxiliary Power Units (APU), Environmental Control Systems (ECS) and main engines. Contact us today to find out how we can solve your noise issues.

Products

- APU Inlet silencers
- APU Inlet plenums
- APU Exhaust systems and liners
- ECS trim air silencers
- ECS main ducting, feeder and riser silencers
- ECS flexible mufflers
- Engine inlet, bypass and exhaust noise suppression

Design Capabilities

- Acoustic analysis and custom designs
- Rigid and flexible ECS silencers
- Low and high temperature solutions
- Proprietary acoustic treatment materials
- In-house FEA acoustic analysis software
- Noise attenuation techniques:
 - $\frac{1}{4}$ wavelength cavity
 - Folded cavity
 - Impedance matching
 - Helmholtz resonator chamber

Design Features

- Low cost
- Low weight
- High reliability
- Specific frequency range and broadband solutions



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Aircraft Noise Control

Environmental Control System Solutions

Attenuation Materials

- Acousti-Flo® materials
AF2.2, AF2.3, AF2.4, AF3.1, AF3.2, AF3.10
- Feltmetal
- Poroplate
- Perforated sheet metals
- Kevlar felts
- Absorptive foams

Structure Materials

- Metals
 - Inconel and super alloys
 - Corrosion resistant steels
 - Aluminum
- Resin systems
 - BMI, Phenolic, Epoxy
- Carrier materials
 - Fiberglass, Carbon, GraphitePolyester



AS9100 and ISO 9001 Certified
EASA Approved
FAA Approved Repair Station
Nadcap Welding Approved



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