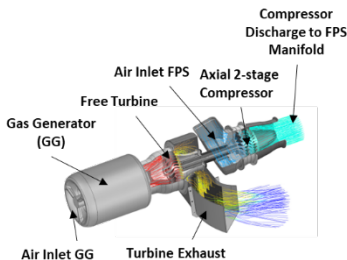


JETOPTERA

FTC-250 Adaptive Fluidic Propulsive System™

Your reliable Adaptive VTOL Propulsion for a silent, fast and safe aircraft



Representative Embodiments of the FTC-250 FPS™

General characteristics

- **Length Free Turbine Compressor (FTC):** 40 in
- **Diameter FTC:** 10 in
- **Turbofan Mode By Pass Ratio (BPR):** 1.5+
- **Pressure Ratio:** 2.1+
- **MIN Weight as Turbofan:** 50 lb
- **MIN Weight as FPS™:** 65 lb
- **MAX Thrust as Turbojet:** 240 lbf
- **MAX Thrust as FPS™:** 500 lbf
- **MAX Thrust as Turbofan:** 300 lbf
- **SFC (static SL with FPS™):** <0.7 lb/lbf-h
- **Powerplant:** Free Turbine Compressor FTC-250 (Jetoptera Proprietary)
- **MAX FTC Power:** 250 kW
- **Max ALT:** 5,000 m (16,400 ft)
- **MTBU:** Gas Generator – 50 hrs; FTC: 200 hrs
- **Modular Design:**
 - The Gas Generator can be swapped in minutes
 - Can be operated as Turbojet, Turbofan or FPS™
 - Separate hot exhaust can be adapted to aircraft needs
- **Atonal Noise:** up to 40 dB lower noise than equivalent power bladed system

This document provided under EAR 737.4(3)

VTOL ENABLER

A powerful 250 kW Turbocompressor that powers the Fluidic Propulsive System™ which eliminates propellers or rotors and enables VTOL from locations inaccessible to helicopters or multi-rotors; the thrusters may be swivable or fixed and the turbo-compressors can be used as turbofans;

HIGH SPEED VTOL ENABLER

The system allows adaptive operation via valves that direct the motive compressed air to either a nozzle for expansion as a jet (Turbofan operation) for high speeds or through ducting operating as FPS™ for VTOL

QUIET PROPULSION

Our Fluidic Propulsive System™ thrusters do not chop the air like a propeller; the noise emitted by these thrust augmenting proprietary ejectors is atonal, resembling the wind. This enables us to deploy the system without restrictions related to noise and fly, take off and land vertically 24/7

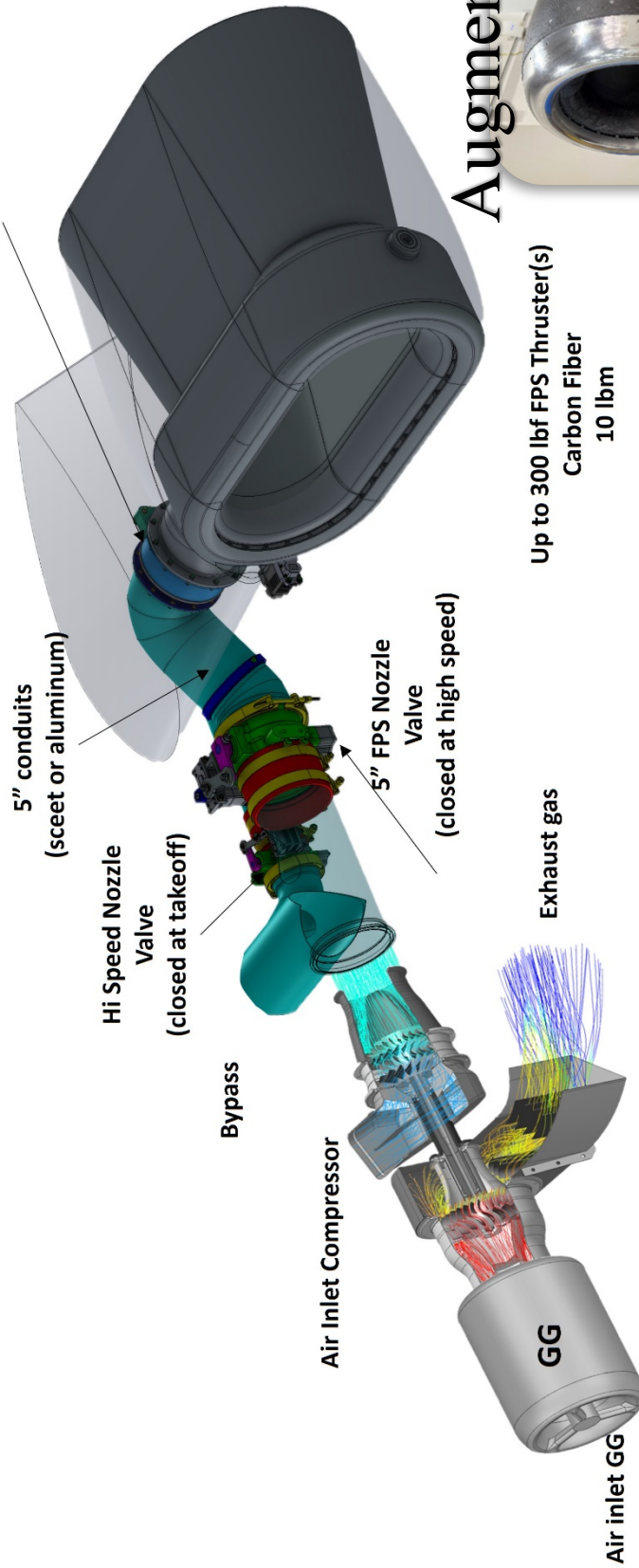
MODULAR PROPULSION

The Gas Generator can be detached and may be used as Turbojet with addition of a nozzle; with FTC it produces thrust as turbofan using a de Laval nozzle; with FPS™ it enables thrust augmentation of up to 3.0 and VTOL

Modularity



Swivel Joint
(Rotating center for entire wing)



Augmentation

Up to 300 lbf FPS Thruster(s)
Carbon Fiber
10 lbfm



Distribution

