

Table E.1 Afterburning turbofan characteristics

Sea-level static thrust	30,000 lb {133 kN}
Sea-level static TSFC	1.64 l/hr {46 mg/NS}
Sea-level static airflow	246 lbm/s {112 kg/s}
Bar-engine weight	3,000 lb {1361 kg}
Engine length (including axisymmetric nozzle)	160 in. {407 cm}
Maximum diameter	44 in. {112 cm}
Fan-face diameter	40 in. {102 cm}
Overall pressure ratio	22
Fan pressure ratio	4.3
Bypass ratio	0.41

The following installed engine data reflect these assumptions:

- 1) Mil. Spec. MIL-E-5008B inlet pressure recovery and inlet duct total pressure ratio of 0.97
- 2) Power extraction of 320 kW to drive electric generators and auxiliary equipment at all power settings and flight conditions
- 3) High-pressure bleed airflow at rate of 1.7 lb/s