

- Key Performance Parameters:

<u>Fan</u>	<u>Ambient Operating Temperature</u>	<u>Envelope & Interfaces:</u>	<u>Minimum Air Flow m³/min (CFM)</u>	<u>Fan Total Pressure kPa (in WG)</u>
Engine/APU	air intake temps: -12 ° to 80° C -up to 94° C for 5 minutes RH: 100%	Inlet Flange: 9.75 inches Outlet Flange: 8.50 inches Overall Length: 11.07 inches	9.2 (325)	0.75 (3.0)
Fuel Pump Room/ Battery Room	air intake temps: -12 ° to 38° C RH: 100%	Inlet Flange: 6.00- 7.50 inches Outlet Flange: 6.0- 7.50 inches Overall Length: 9.97- 12.59 inches	2.4 (85)	(2.5)
Actuator Controller	air intake temps: -12 ° to 80° C -up to 94° C for 5 minutes RH: 100%	Inlet Flange: 12.55 inches Outlet Flange: 11.00 inches Overall Length: 14.75 inches	14.1 (500)	(5.0)

- Electrical Interface: Electrical power for all fan types will be supplied by three-phase, 450V, 60 Hz, ungrounded AC distribution system
- Electric Motor: Electric motors shall be in accordance with IEEE STD 45
- Air Duct Connections: Flanged ends provided with all fans on both inlet and outlet ends of fan, with flanged ends designed for use as mounting hard points
- Operating Temp Range: -10 to 176 F
- Craft Acceleration: All fans capable of operating with the following craft accelerations:

Design Condition	Design Acceleration Factor		
	Up	Port	Forward
Bow Impact	4.01	+ - 1.0	2.0
Stern Impact	3.13	+ - 1.0	- 1.0
Cushion Overpressure	3.01	0	0

- IP Rating: IP 67

- Vibration: The electric ventilation fans designed to withstand shock and vibration (for example Type I and Type II vibration as defined in MILSTD-167 and shock up to 40 G's).
- Moisture: Operate with a 100% relative humidity environment.
- Fungus Resistance: Capable of resisting fungus growth without deterioration of performance, life, corrosion resistance, or durability.
- Atmospheric Salt Conditions: Capable of operating continuously in an atmosphere containing seawater mixtures with salinity levels ranging from freshwater to 50 parts per thousand without deterioration of performance, life, corrosion resistance, and durability.
- Sand and Dust Conditions: Capable of operating continuously in a concentration equivalent to 100 milligrams of ISO 12103-1 AC course dust per cubic foot of air.
- Materials: Made of corrosion resistant materials suitable for a marine environment. For aluminum, alloys 5000 series or 6061 T6 are preferred. For corrosion-resistant steel, 300 series stainless steel (except 303) is preferred, or A286, 17-4Ph (tempers 1100 or 1150), or Inconel 718 where higher strength materials are needed. The use of non-corrosion resistant steel shall be avoided for exterior components and housings. Where used, steel parts shall be galvanized or otherwise have a marine-grade coating applied to protect from corrosion. The use of galvanically dissimilar metals in contact shall be avoided as far as practical, and where used, polysulfide sealant shall be applied to prevent the entry of moisture between faying surfaces and for the installation of fasteners.
- Weight: Reduce weight to greatest extent possible