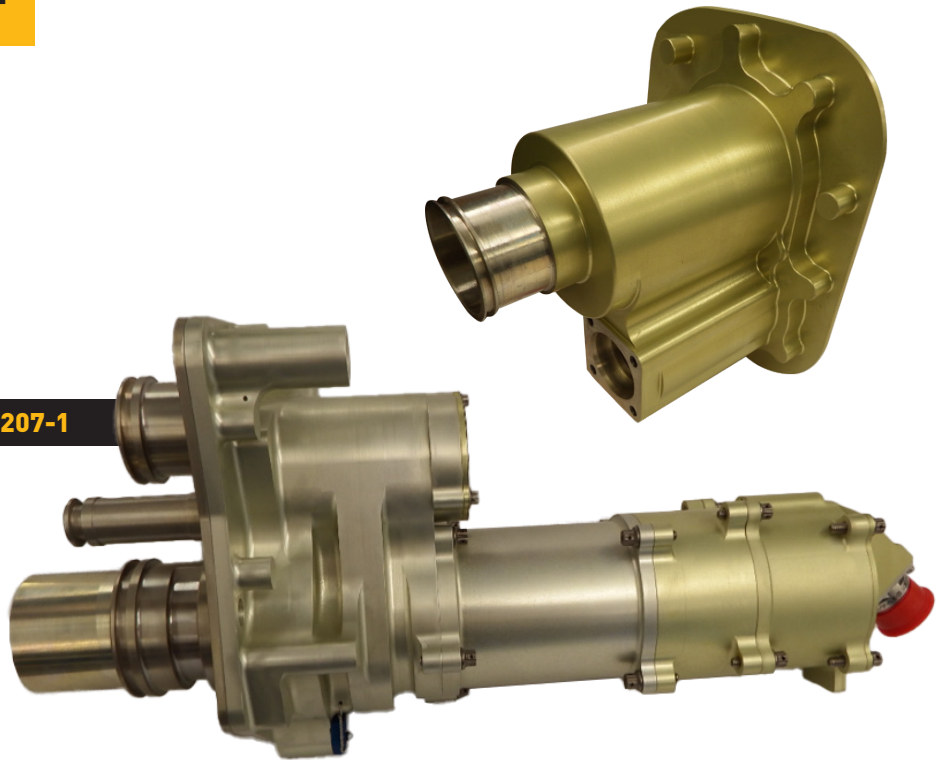


Model 9C208-3, 9C207-1



PARKER AEROSPACE

Fuel pump cartridge/canister

Product data matrix and performance index

Some civilian aircraft utilize 115 VAC (L-N), variable frequency power for fuel system products. The 9C207-1/9C208-3 pump utilizes a two piece (cartridge/canister) assembly that allows for the main pumping element (cartridge) to be removed and replaced during service without performing additional maintenance on the fuel tank, such as draining the fuel from the tank to gain access to the pump. The 9C207-1/9C208-3 is spar mounted on the side of the fuel tank and utilizes a liquid ring assembly to “lift” fuel through an inlet snorkel.

Extensive qualification testing has been completed, and the 9C207-1/9C208-3 pump assembly has shown excellent field reliability. The combination of certification testing and field experience provides a low risk, cost effective solution for fuel pump applications utilizing a 115 VAC, variable frequency power system.

Product attributes and benefits

- Two piece assembly (cartridge/canister), mounted to the vertical spar of the aircraft fuel tank
- Single inlet utilizing a centrifugal impeller
- 115 Volt (L-N), variable frequency drive motor
- Motor is fuel cooled for long life

Contact information

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Fuel pump cartridge/canister

Product data matrix and performance index

Model 9C208-3

Characteristic	Value	Pump performance
Model number	9C208-3	<p>Typical model 9C207-1/9C208-3 pump hydraulic performance at 230 VAC across various frequencies and altitudes</p> <p>Discharge pressure (psi)</p> <p>Flow (pph)</p> <p>Current (amps/phase)</p> <p>Flow (pph)</p>
Application	Cartridge assembly	
Pumping data		
Hydraulic element	Single stage, centrifugal	
Rated flow	16,400 pph at 668 Hz	
Minimum discharge pressure	19.1 psig at 668 Hz	
Typical discharge pressure	24.2 psig at sea level, at 668 Hz	
Maximum operating altitude	41,000 ft	
Qualified fuels	Jet A, TS-1, JP-5, RT	
Temperature range	-40°F to +160°F	
Duty cycle	Continuous	
Motor data		<p>380 Hz, 30K</p> <p>400 Hz, SL</p> <p>502 Hz, 30K</p> <p>642 Hz, 41K</p> <p>668 Hz, SL</p> <p>671 Hz, 10K</p>
Motor type	Variable freq. AC	
Voltage	115 VAC	
Frequency	380 – 705 Hz	
Current at rated flow	5.2 amps at sea level, at 668 Hz	
Maximum current	7 amps	
Dry run capability	Yes	
EMI filtering	No	
Stator thermal protection	Yes	
Electrical connection	D38999/21YD97PN	
Geometric assembly data		<p>380 Hz, 30K</p> <p>400 Hz, SL</p> <p>502 Hz, 30K</p> <p>642 Hz, 41K</p> <p>668 Hz, SL</p> <p>671 Hz, 10K</p>
Assembly mounting	Into canister	
Bypass flow valve	No	
Lift capability	Up to 7"	
Approximate envelope (L x W x H)	16.9" x 5.6" x 7.6"	
Weight (maximum)	11.3 lbs	

Model 9C207-1

Characteristic	Value
Model number	9C207-1
Application	Canister assembly
Geometric assembly data	
Assembly mounting	Spar, wall mount
Inlet port	AS1656-1A32
Discharge port	AS685-24
Discharge check valve	Yes
Bypass flow valve	No
Approximate envelope (L x W x H)	7.9" x 8.3" x 9.7"
Weight (maximum)	6.0 lbs