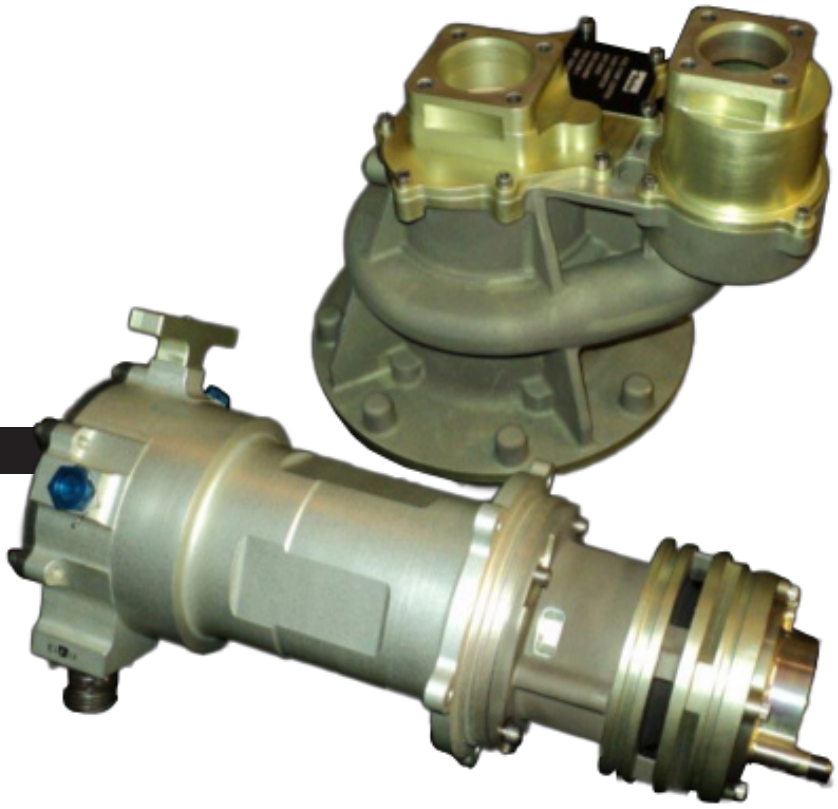
PRODUCT DATA SHEET



Model 9C210-2, 9C209-1

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 9C209-1/9C210-2 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 9C209-1/9C210-2 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 9C209-1/9C210-2 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

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Parker Aerospace

PARKER AEROSPACE

Fuel pump cartridge/canister

Product data matrix and performance index

Model 9C210-2

Characteristic	Value
Model number	9C210-2
Application	Cartridge assembly
Pumping data	
Hydraulic element	Single stage, centrifugal
Rated flow	15,497 pph at 5K, at 635 Hz
Minimum discharge pressure	31.5 psig at 5K, at 635 Hz
Typical discharge pressure	34.5 psig at 5K, at 635 Hz
Maximum operating altitude	39,000 ft
Qualified fuels	Jet A
Temperature range	-40°F to +130°F
Duty cycle	Continuous
Motor data	
Motor type	Variable freq. AC
Voltage	115 VAC
Current at rated flow	10.5 amps at 5K, at 635 Hz
Maximum current	17.7 amps
Dry run capability	Yes
EMI filtering	No
Stator thermal protection	Yes
Electrical connection	D38999/21YD97PN
Geometric assembly data	
Assembly mounting	Into canister
Bypass flow valve	No
Lift capability	Up to 9"
Approximate envelope (L x W x H)	13.8" x 7.0" x 5.4"
Weight (maximum)	13 lbs

Model 9C209-1

Characteristic	Value
Model number	9C209-1
Application	Canister assembly
Geometric assembly data	
Assembly mounting	Spar, wall mount
Inlet port	4 bolt customer flange
Discharge port	4 bolt customer flange
Discharge check valve	Yes
Bypass flow valve	No
Approximate envelope (L x W x H)	8.1" x 8.4" x 10.6"
Weight (maximum)	7.5 lbs

Pump performance

Typical model 9C209-1/9C210-2 pump performance at 115 VAC across various frequencies and altitudes for -40°F Jet A