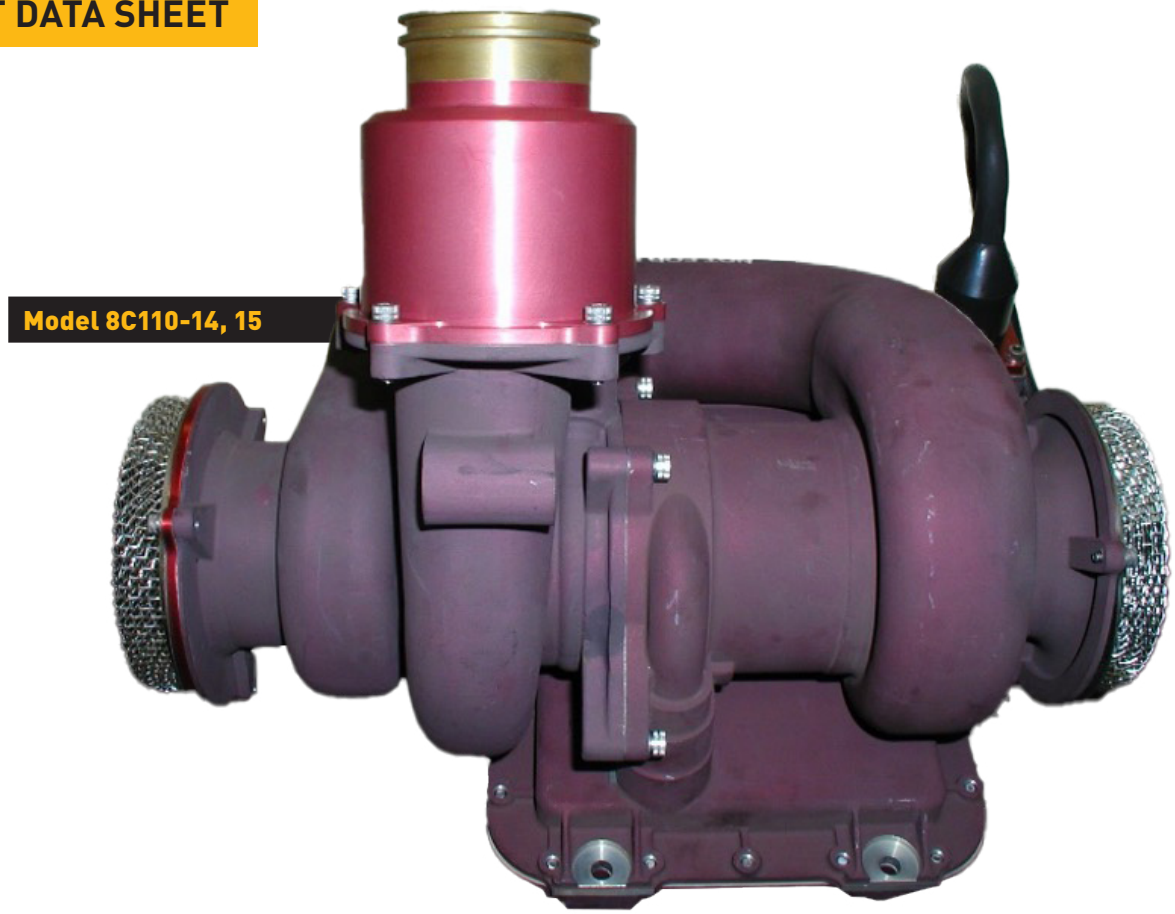
PRODUCT DATA SHEET



PARKER AEROSPACE

Fuel boost pump

Product data matrix and performance index

Many military aircraft utilize 270 VDC power for fuel system products. The 8C110 Series pumps can supply pressurized fuel from the main tanks(s) directly to the engine or APU as a boost function or can supply pressurized fuel for tank-to-tank transfers. Extensive qualification testing has been completed, and the 8C110 Series pumps have shown excellent field reliability. The combination of certification testing and field experience provides a low risk, cost effective solution for fuel pump applications utilizing 270 VDC power.

Product attributes and benefits

- Integral assembly, mounted internal to the aircraft fuel tank
- Dual inlet utilizing a centrifugal impeller and two centrifugal inducers
- 270 volt brushless DC drive system (motor & controller)
- Motor and controller are fuel cooled for long life

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PARKER AEROSPACE

Fuel boost pump

Product data matrix and performance index

Model 8C110-14,15

Characteristic	Value
Model number	8C110-14,15
Application	Fuel transfer pump
Pumping data	
Hydraulic element	Dual stage, centrifugal
Rated flow	40,000 pph
Minimum discharge pressure	18.5 psig
Typical discharge pressure	23 psig at SL
Maximum operating altitude	60,000 ft
Qualified fuels	JP-5, JP-8
Temperature range	-40°F to +175°F
Duty cycle	Continuous
Motor data	
Motor type	Brushless DC
Voltage	270 vdc
Input power at rated flow	10.1 amps at SL
Maximum input power	11.75 amps
Dry run capability	Yes
EMI filtering	Yes
Stator thermal protection	Yes
Electrical connection	D38999/23YD97PN
Geometric assembly data	
Assembly mounting	Submerged, wall mount
Inlet port	#8 mesh, screened inlet
Discharge port	JSFD01-32
Discharge check valve	Yes
Bypass flow valve	Yes
Lift capability	No
Approximate envelope (L x W x H)	12.7" x 9.3" x 10.6"
Weight (maximum)	16.25 lbs

Pump performance

Typical model 8C110-14 pump performance
at 270 VDC for room temperature JP-8 at sea level