

PRODUCT APPLICATIONS

The JO3C follows a module design concept that allows the greatest amount of flexibility to select different Flow and Power Profiles. As a result of this flexibility, the JO3C eliminates the need for multiple ground support carts by replacing them with one cart that services all fighter applications. New applications can be added to the cart without factory intervention. The unit also features Data Logging, Fault Data Storage, BIT Testing, and a simple operator interface. Data may be downloaded via a USB memory interface for fault investigation.



Diesel Driven



Electric Driven

PERFORMANCE FEATURES

- Available in Diesel Driven, Electric Driven, or Both for any application
- Mobile or Stationary Options Available
- Easy access to all parts requiring periodic maintenance
- Smallest and lightest weight unit on the market
- R134A refrigerant
- Air transportable with C-130 aircraft
- Ability to set, store, retrieve, and use customer setting for output air pressure, flow and temperature
- Power quality exceeds MIL-STD-704F and F-35 standards
- Simplified control panel and indications
- All information available via digital display

Maintenance

The JO3C simplifies maintenance of GSE equipment. If a module requires maintenance, only the module needs be removed from service while the rest of the cart remains fully functional. In addition, a module can simply be replaced, returning the cart to full service while the original module is being serviced.

Options

- 400Hz Solid State Converter
- 270VDC Solid State Converter
- Servo Air for F-16
- Diesel or Electric Driven
- Mobile or Stationary
- Remote Control Station for Facility Installations
- Localization of Languages upon Request
- Full Customization Available

SPECIFICATIONS

General

- Operating temperature: -40°F (-40°C) TO 140°F (60°C)
- Storage temperature: -65°F (-54°C) to 160°F (71°C)
- Central controls for system operation
- Instrumentation Accuracy: $\geq 2\%$
- MTBF 3000 hrs minimum- low maintenance

Cooling Air Output

- Maximum outlet pressure > 6 PSIG (0.4218 kg/cm²) out of unit variable
- Delivered air volume: 25 to 100 PPM (680 to 2,721 kg/h) variable
- Nominal delivered air temp at unit output @ 125°F(52°C) ambient: 50°F(10°C) @ 50 PPM(1,361 kg/h) @ 5.5 PSIG (0.38 kgf/cm²)
- Output duct: 30ft. (9.14 m) of 8-inch hose and 10ft. (3.05 m) of 4-inch hose with fitting for aircraft as required (other lengths available)

Standards / Specifications

- MIL-STD-704F Aircraft electric power characteristics
- NFPA 70 Article 500

EMI Hardened

- EMI Gasketing
- Screen Filter for Display
- EMI Input/Output Filters
- EMI Power Input/Output Filters

400Hz Output

- 115/200 V, 3 PH, 90 kVA(72kW)
 - Voltage 0.5% No Load-Full Load
 - Frequency 0.1% No Load-Full Load
 - Meets MIL-STD-704E
 - Harmonics: less than 3 % total
 - 112kVA (90kW) for 10 minutes
 - Output Cables: 30 ft. (9.14 m) each with NATO Standard AC plug(other lengths optional)
 - Complete protection package

270VDC Output

- 28 VDC @ 15 Adc - Interlock
- Voltage regulation: 3 VDC
- Transient performance exceeds MIL-STD-704F
- Meets F-35 JSF power quality requirements

The JO3C is used on the following Military Aircraft Fighters worldwide:

- F-15 Eagle
- F-16 Falcon
- F-18 Hornet
- T-50/FA-50
- EFA Typhoon
- Mirage
- F-35 JSF
- JAS 39 Gripen
- Mitsubishi F-2

Model - with Trailer	Cooling Capacity	Input Power	Output Power	Length	Width	Height	Weight
JO3C Electric	384 MBH (112.5 kW)	400/460 VAC, 50/60hz	400 Hz or 270 VDC	116.5" (295.9 cm) (upright towbar)	85" (215.9 cm)	90" (228.1 cm)	6,500 lbs (2,948 kg)
Diesel & Electric	384 MBH (112.5 kW)	400/460 VAC, 50/60hz	400 Hz or 270 VDC	116.5" (295.9 cm) (upright towbar)	85" (215.9 cm)	95.5" (242.6 cm)	12,850 lbs (5,829 kg) depending on options
JO3C Diesel	384 MBH (112.5 kW)	Diesel Fuel	400 Hz or 270 VDC	116.5" (295.9 cm) (upright towbar)	85" (215.9 cm)	95.5" (242.6 cm)	12,850 lbs (5,829 kg) depending on options