



COOL Jet CAS (BGAC023-F) F-35 Preconditioned Air & Power Unit

The Most Advanced and Flexible Fighter Support System

Preconditioned Air & Power

The Cool Jet CAS is a dedicated, high pressure preconditioned air unit designed for hangar, shelter, and remote parking positions. Available for fixed or mobile applications in all-electric or diesel driven configurations.

Combine with 400Hz, 270VDC and 28VDC power to service all power and air needs from a single piece of equipment.



Designed for F-35 Lightning II Performance:

Air conditioning requirements: fully compliant with Lockheed Martin JSF Support Equipment Procurement Specification 2SJS00070

Power quality requirements fully compliant with Lockheed Martin F-35 Ground Electrical Power Interface Document 2ZEU00004

Designed with performance flexibility for expanded service to other aircraft...



Programmable for:

- ▶ F-15 Eagle
- ▶ F-16 Talon
- ▶ F-18 Hornet
- ▶ EFA Typhoon
- ▶ Mirage
- ▶ T-50/FA-50 J
- ▶ AS 39 Grippen

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System Description

- ▶ Integrated Disconnect
- ▶ Integrated Electrical Panel
- ▶ Programmable Logic Controller (PLC)
- ▶ Adjustable Airflow
- ▶ 100% Outside Air
- ▶ Discharge Air Temperature Sensor
- ▶ High Static Evaporator Blower
- ▶ Heater Options available
- ▶ Electronic Capacity Regulation
- ▶ R-410A refrigerant
- ▶ Copper tube/aluminum fin coils
- ▶ 8" Diameter Flanged Outlet Connection
- ▶ Aluminum cabinet with white powder coat finish
- ▶ Hinged access doors with tool-access latches
- ▶ Quiet direct drive axial condenser fans
- ▶ Input Power Phase Monitor
- ▶ Smoke Detector
- ▶ Optional Remote Air Temperature Sensor
- ▶ Optional Electric Heaters
- ▶ Low Ambient Operation to -15°F




Performance Data - Air Conditioning

- ▶ Nominal Capacity: 360,000 Btuh
- ▶ Supply Airflow: 75 ppm @ 5.25 psig (adjustable from 25 ppm to 100 ppm)
- ▶ 0°F to 55°F at the aircraft interface
- ▶ Condenser Airflow: 18,000 CFM
- ▶ Refrigerant: 60 lbs. R410A

Performance Data - Power

- ▶ 270 VDC, 72 kW (continuous)
- ▶ 115V, 400 Hz, 90 kVA
- ▶ 28 VDC, 600 A
- ▶ Servo air HPU, 125 psi

Electrical Data

			
Input Power:	480VAC, 3ph, 60Hz	575VAC, 3ph, 60Hz	380VAC, 3ph, 50Hz
Minimum Circuit Ampacity (MCA):	110	90	135
Maximum Overcurrent Protection (MOP):	150	125	175
Cooling FLA:	100	85	126
Heating FLA:	Based on selected heater kW		

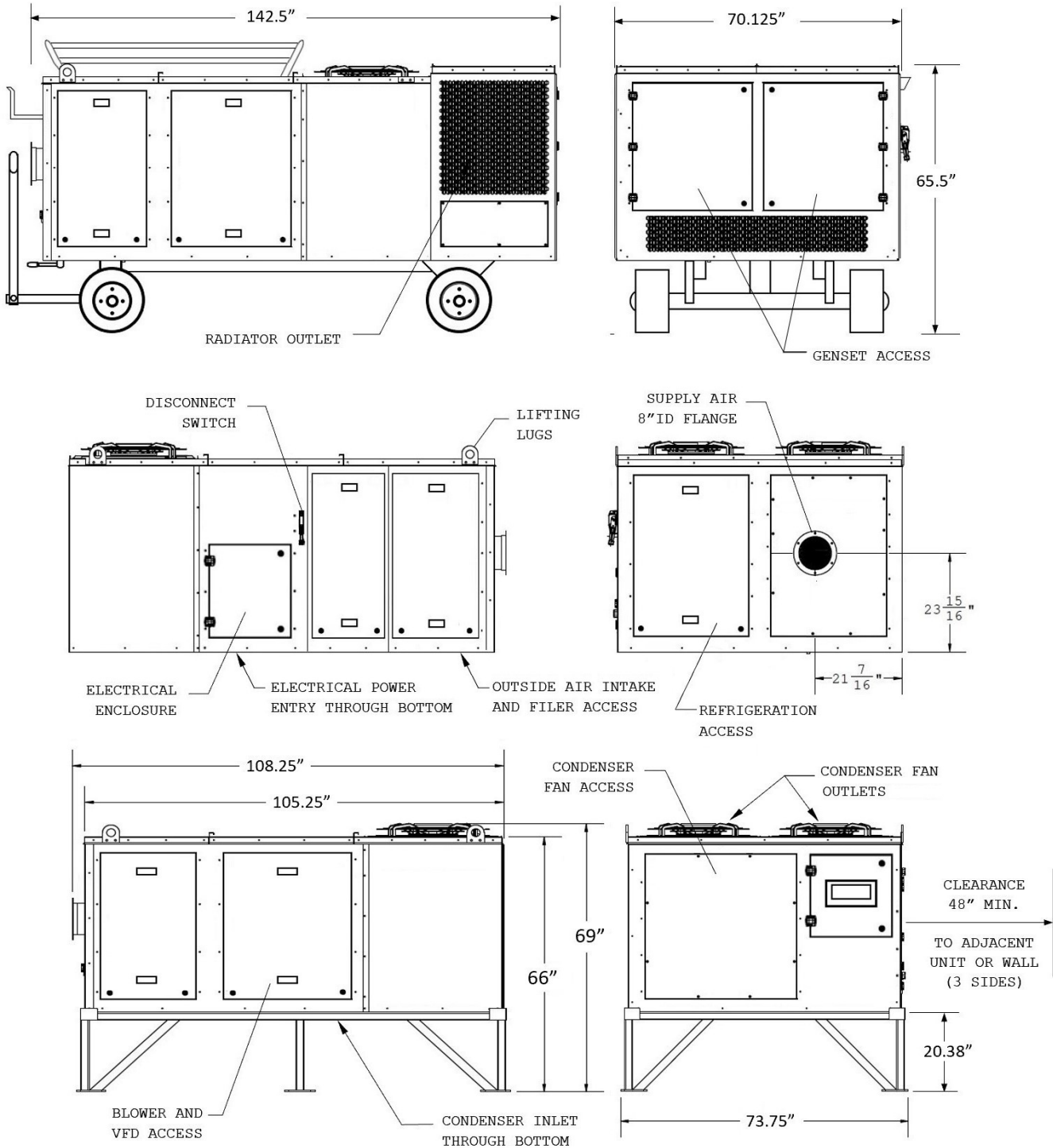
BGSE is an international supplier of the highest quality aerospace support products. We're committed to 100% on time supply, zero defects, and complete customer satisfaction.

Our core focus is turn-key, integrated solutions. BGSE has the experience to execute design-build projects with architects, engineering firms, general contractors, electrical contractors, mechanical contractors and all installation and maintenance companies.





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F-35 Preconditioned Air & Power Unit



Diesel

Weight.....7,084 lb (3213 kg)

All Electric

Weight.....3,290 lb (1601 kg)

Weight w/stand.....3,530 lb (1492 kg)