

ASPI00-1A Mobile Bleed Air Cart



Model ASP100-1A Trailer Mounted



F-16 Falcon

PERFORMANCE FEATURES:

Proven design:

- Robust high-pressure direct coupled screw compressor
- Electronically controlled FADEC diesel engine
- Demand sensitive output regulation
- Steel support frame on heavy-duty running gear (trailer version) and sound insulated aluminum body panels

Easy to Operate:

- Simple lighted operator panel mounted on unit near discharge valves
- Automatic controls for start and regulation of rpm and pressure for selected mode

Economical:

- Direct-coupled engine to integral compressor/gear-set requiring no clutches, external gears or pulleys
- Fewer moving parts equate to lower maintenance costs
- Idle and Air Conditioning Secondary mode offer significantly less fuel burn
- Significantly less cost than running the aircraft APU

Durable:

- Designed to endure the rigors of the flight line environment
- Easy access to all components for maintenance

ITW MILITARY GSE:

ITW Military GSE is the industry leader in product design and innovation. The best combination of experience, new technology and customer input has resulted in a product line you can trust for your aircraft's needs.

APPLICATION:

Completely self-contained diesel powered, continuous flow bleed air unit for operating onboard Environmental Control System (ECS) and jet engine starting. Airflow is provided by a integrated dry screw compressor/gear-set for oil-free air delivery driven by a Detroit Diesel Series 40 engine with diesel and jet fuel compatibility. Endurance in air conditioning mode: approximately 8 hours of continuous operation per full fuel tank.

OPTIONS:

Units can be trailer mounted for towing or truck mounted on a suitable chassis (consult factory).

EMISSIONS CERTIFIED:

The engine meets current Tier Emissions Certifications as specified by EPA and CARB.



Model	Output	Length	Width	Height	Weight
ASP100-1A	Air Start Mode: 105 lb/min (0.76 kg/s) at 50 PSIG (344.7 kPa) Air Conditioning Mode: 75 lb/min (0.57 kg/s) at 35 PSIG (241.3 kPa)	167.5" (425 cm)	78.25" (199 cm)	87" (221 cm)	11,890 lb (5,393 kg)

ASPI00-IA Mobile Bleed Air Cart Specifications

CONSTRUCTION

- Painted steel frame construction
- Painted Aluminum body access panels and doors with stainless steel hardware
- NEMA 4 Electrical enclosure and weather tight wiring conduit
- Large operational switches, buttons and latches for cold weather operation in heavy gloves
- 50 ft. air delivery hose

FINISH

- Anti-corrosive polyester powder provides excellent weather resistance, flexibility and adhesion, plus a strong resistance to chemical agents such as glycol and skydrol
- Standard colors are high gloss white over black frame
- Custom colors require a paint chip or swatch for accurate color match

PERFORMANCE

Air Start Mode:

- Primary Airflow: 105 PPM (0.76 kg/s)
- Primary Discharge Pressure: 50 PSIG (344.7 kPa)

Air Conditioning Mode:

- Secondary Airflow: 75 PPM (0.57 kg/s)
- Secondary Discharge Pressure: 35 PSIG (241.3 kPa)

Delivered Air Temp. Range:

400° F to 600° F (204° to 315° C)

ENVIRONMENTAL

- Operation Temperature: -40° F to +125° F
- Relative humidity 0-100%

CONTROL

- Pneumatic/Electric with 24VDC Control Voltage
- Airflow regulation via linear actuated bypass valve with stainless steel diaphragm
- Lighted Operator panel with large push buttons and switches
- Low voltage control box with DDC controls for diagnostics, system modulation and fault monitoring

AIR MOVER SET

Compressor

- GHH Rand high pressure, air cooled dry screw
- Integral gear-set and lubrication system

Engine

- Detroit Diesel Series 40 with FADEC
- Turbocharged 4-stroke, inline 6 cylinder
- Fuels: Diesel, Jet A, JP-8, JP-5
- Engine Block Heater
- Ether Cold Start
- Racor® Fuel Filter

PROTECTION

Compressor

- High discharge air temperature
- High oil temperature
- Low oil pressure
- Low oil level

Engine

- High Water Temperature
- Low Oil Pressure
- Overspeed
- Overcrank Starting Protection

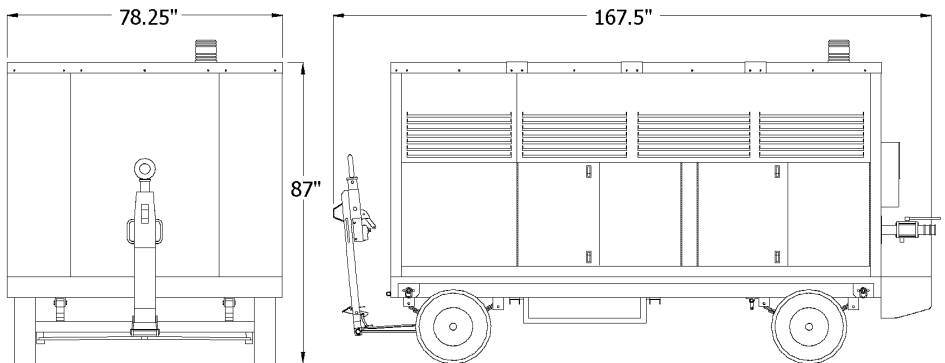
DISPLAYS/INSTRUMENTATION

- Meters: Compressor discharge air temperature, discharge air pressure, oil temperature and oil pressure. Engine fuel level, hour meter, water temperature, oil pressure, tachometer, and battery voltmeter. E-stop counter, jet start runtime counter
- Indicator Lights: Compressor high oil temperature, low oil pressure, low oil level and high discharge air temperature. Engine low oil pressure, high water temperature, overspeed, Cool Down, Check Engine and Stop Engine.
- Buttons and Switches: Ignition on, start, mode selector, panel lights, emergency stop, jet start runtime

AVAILABLE OPTIONS

- Sound Attenuation Package
- Truck Mounted (consult factory)
- Exterior hazard lights
- Operation Indicator beacon
- Special paint scheme

Specifications subject to change without notice.



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FROM DESIGN TO DEPLOYMENT