



Model AS100

Davco Regional Aircraft Air Start Unit

The Davco AS100 is a diesel-powered air start unit for starting aircraft jet engines. The AS100 produces a continuous flow of oil-free, low-pressure air at 100 ppm. Simplicity, ease of service and maintenance, durability and performance were the primary design objectives.

Standard features include:

- Frame constructed of tubular steel with all joints and attachments welded and Powder Coat painted
- Covers fabricated from Diamond Plate aluminum
- Engine and compressor incorporate sensing devices for protection
- Safety shutdowns have indicator lights for easy problem identification
- Discharge hose bleed-down valve
- Illuminated operator control panel with complete gauge set
- Engine and compressor filter indicators
- Block heater
- Compressor heater
- Low fuel warning/shut down
- Dual hose trays
- Safety lights
- Ether start

Specifications

Model AS100 Davco Regional Aircraft Air Start Unit

Engine - Cummins

Model 6BTA5.9
Type 6-cylinder diesel, direct injection, four-cycle, turbo-charged
Displacement 5.9 L
Horsepower 200 bhp @ 2800 RPM

Fuel System

Type Jet A (needs external filter) or Diesel
Tank/Capacity Dual external steel with braided steel fuel lines and 3 in (7.6 cm) fill 52 gal (196.8 L)

Electrical System

Starting System 12VDC
Batteries Two (2) H.D. 12 volt Optima

Compressor

Manufacturer GHH Rand Model CD26S (single element)
Type Rotary dry screw oil-free air
Output at 68 °F (20 °C), 60% RH, sea level
100 lb/min (45.4 kg/min)
Discharge air temperature 342 °F (172.2 °C)

Aircraft Connection

(1) 30 ft (9.1 m) discharge hose with aircraft coupling

Dimensions Skid Mount Trailer Mount

Length (overall)	120 in (304.8 cm)	130 in (330.2 cm)
Width	84 in (213.4 cm)	84 in (213.4 cm)
Height	76 in (193.0 cm)	76 in (193.0 cm)
Weight (dry)	5800 lb (2631 kg)	6300 lb (2858 kg)

*On truck mounted units, overall dimensions vary by truck manufacturer.

Wheels/Tires 6.00 X 9 pneumatic tires mounted on 5-lug steel wheels

Engine and Compressor Protection System

Operating conditions below are factory set for operator warning and/or automatic shutdown in "UNLOAD" and "AIR PACK" modes only. All safety shutdowns are inoperative in "JET START" mode with the exception of a manual operator emergency stop.

Engine high coolant temp.	210 °F (98.9 °C)
Engine low oil pressure	10 psig (69 kPag)
Compressor high air temp.	425 °F (218.3 °C)
Compressor high coolant temp.	210 °F (98.9 °C)
Compressor low coolant pressure	10 psig (69 kPag)

Automatic Control System

Dual pressure regulator
Engine protection warning lamps and unit shutdown for high coolant temperature and low engine oil pressure

Compressor warning lamps and unit shutdown for high compressor oil temperature, low compressor oil pressure and high output air temperature

Aircraft Protection System

Discharge air regulating valve	38 psig (261 kPag)
Discharge air safety valve	50 psig (344 kPag)

Standard Instrumentation Panel

Start/Stop switch
Mechanical fuel gauge
Engine water temperature
Engine oil pressure
Voltmeter
Hour meter
Tachometer
Compressor oil pressure
Compressor oil temperature
Compressor outlet air pressure
Air output temperature
Mode selector switch
Emergency stop
Safety shutdown indicator lights

Optional Equipment

Safety beacon
Truck mounted unit
40 ft (12.2 m) discharge hose with aircraft coupling
50 ft (15.2 m) discharge hose with aircraft coupling



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