

JETAIRE[®] HELIOS



SPECIFICATIONS

The Jetaire® Helios is used on fighter aircraft for the testing of onboard Environmental Control Systems (ECS).

DESIGN ELEMENTS

The JBT AeroTech, Jetway Systems®, Helios revolutionizes the world of bleed air carts and air start systems in its unique engine speed controlled air delivery system. JBT AeroTech has capitalized on the modern electronic engine's CANbus control to make a highly precise, reliable, more fuel efficient, and significantly quieter compressed air system for use on fighter aircraft bleed air systems.

The Helios utilizes a compact design with a robust 4-wheel trailer, Ackerman steering system, powder coated tubular steel frame with aluminum access doors, and Orscheln® style parking brake system. Additionally, the unit is controlled by robust electronics that includes a Programmable Logic Controller (PLC) and color screen Human Machine Interface (HMI) for ease of use and maintainability.

STANDARD EQUIPMENT

- Ackerman steering with hydraulic surge brakes and Orscheln® park brake handle
- PLC controlled with color HMI on the operator station
- Powder coated tubular steel frame
- Aluminum access doors
- C-130 air-transportable (with shoring)
- Frame tie downs, forklift pockets, and hoist eyelets
- Remote fluid drain connections for ease in maintainability
- Two stage inlet air filter
- Internal hose storage area [for 60 ft (18 m) of hose]
- Battery disconnect for long term storage
- Diesel and Jet fuel compatible
- Fuel tank sized for up to 8 hours of operation
- Cummins QSM11 Diesel Engine
- Green operational strobes
- Amber alarm strobes

ACCESSORIES

- MIL-DTL-22706(G) — Bleed Air High Pressure Hose
- Engine Reader — Used in maintaining/diagnosing engine

OPERATIONAL ENVELOPE AND PERFORMANCE

- Operating Altitudes: 0 to 7000 ft
- Operating Ambient Temperature: -40°C to 60°C (-40°F to 140°F)
- Operating Humidity: 10% RH to 90% RH
- Storage Ambient Temperature: -40°C to 60°C (-40°F to 140°F)
- Storage Humidity: Up to 100% RH
- Long Term Storage Ambient Temperature: 16°C to 30°C (60°F to 85°F)
- Long Term Storage Humidity: 20% RH to 85% RH

Altitude	Ambient Temp	Air Flow Rate*	Pressure	Temp Range
7000 ft. (2134 m)	125° F (52°C)	130 lbs. /min (59 kg/min)	42 psig (290 kPa)	160°F (71°C) 300° F (149°C)
0 ft. (0 m)	140° F (60°C)	140 lbs. /min (64 kg/min)	42 psig (240 kPa)	160°F (71°C) 300° F (149°C)

**Value measured at the unit's outlet*

DIMENSIONS AND WEIGHT

Length	169 in (4293 mm) <i>Includes stowed tow bar and park brake handle</i>
Height	104 in (2642 mm) <i>Includes operation and warning beacon height</i>
Width	86 in (2184 mm)
Weight	<i>Dry: 14,000 lbs (6350 kg)</i> <i>Wet: 14,760 lbs (6695 kg)</i>



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