

From Oshkosh AeroTech, JetAire® High Pressure Conditioned Air Units for Fighter Aircraft



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AEROTECH

Defense

When support IS the mission

The JetAire HPC air units from Oshkosh AeroTech are designed to provide cooled, high-pressure air for modern fighters. Models exist for static and trailer mounted units with electric or diesel supply power. Designs are available for extreme ambient conditions. Options exist for dual output configurations with both air and various forms of electrical power for the aircraft.

Air-transportable on aircraft such as the C-130, A400M, and C-17. Modular design and large access panels allow for easy maintenance and fast repairs.

The JetAire HPC air units are used by over 20 militaries around the world. Contact an Oshkosh AeroTech representative for more information.



HPC for extreme (140°F) environments with air and power supply options



HPC-DE with diesel/electric power input options

Nominal Characteristics*	HPC-E	HPC-D	HPC-DE	HPCX
Configuration	Mobile/Towable	Mobile/Towable	Mobile/Towable	Mobile/Towable
Diesel or Electric	Electric Only	Diesel/Electric**	Diesel/Electric**	Diesel/Electric**
Aircraft Cooling	F-15, F-16, F-18, F-35	F-15, F-16, F-18, F-35	F-15, F-16, F-18, F-35	F-15, F-16, F-18, F-35
Modes	Cool/Vent	Cool/Vent	Cool/Vent	Cool/Vent
Key Options		Shore Power Input	Shore Power Input	Shore Power Input, 400Hz, 28VDC, Servo Air
Ambient Envelope	0-125°F/-18-52°C	0-125°F/-18-52°C	0-125°F/-18-52°C	0-140°F/-18-60°C
Weight	5450 lbs./2470 kg	8250 lbs./3740 kg	9000 lbs./4080 kg	15000 lbs./6800 kg
Length	128 in./325 cm	172 in./437 cm	194 in./493 cm	168 in./427 cm
Width	90 in./229 cm	90 in./229 cm	90 in./229 cm	94 in./239 cm
Height	66 in./168 cm	66 in./168 cm	66 in./168 cm	96 in./244 cm
Design Airflow	100 PPM/0.76 kg/s	100 PPM/0.76 kg/s	100 PPM/0.76 kg/s	100 PPM/0.76 kg/s
Nominal Cooling	30 Ton/105 kW	30 Ton/105 kW	30 Ton/105 kW	45 Ton/158 kW
Discharge Temperature	35-55°F/2-13°C	35-55°F/2-13°C	35-55°F/2-13°C	35-55°F/2-13°C
Nominal Static Pressure	3-5.5 PSI/21-38 kPa	3-5.5 PSI/21-38 kPa	3-5.5 PSI/21-38 kPa	3-5.5 PSI/21-38 kPa
Sound	85 dBA @ 15 ft.	95 dBA @ 15 ft.	95 dBA @ 15 ft.	95 dBA @ 15 ft.
Fuel Type	Electric Only	Diesel, JP8, JP5, JetA	Diesel, JP8, JP5, JetA	Diesel, JP8, JP5, JetA
Fuel Capacity		90 gal./340 L	90 gal./340 L	120 gal./450 L
Input Power (MCA @ 460)	125 Amp	125 Amp	150 Amp	200 Amp
Integral Forklift Pockets	Yes	Yes	Yes	Yes
Refrigerant Options	R134a, R407c	R134a, R407c	R134a, R407c	R134a
Engine Options		Cummins Tier III	Cummins Tier III, Tier IV	Cummins Tier III
Air Transportable	Yes	Yes	Yes	Yes
Steering	Ackerman/Hand Brake	Ackerman/Hand Brake	Ackerman/Hand Brake	Ackerman/Hand Brake
NSN		4120-01-600-1306		
HPC Military Standard	Mil Std 810	Mil Std 810	Mil Std 810	Mil Std 810
Electrical Output Power			Mil Std 704	Mil Std 704
Fabrication	ISO 9001	ISO 9001	ISO 9001	ISO 9001
Disconnect	Mil Std D-38386	Mil Std D-38386	Mil Std D-38386	Mil Std D-38386
Optional A/C Coupler	4730-00-940-9582	4730-00-940-9582	4730-00-940-9582	4730-00-940-9582

*Subject to change; please consult an AeroTech representative for updated information.

**Diesel/Electric design uses diesel engine to produce electricity to power the system; this allows (optional) shore power inputs on most systems.



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