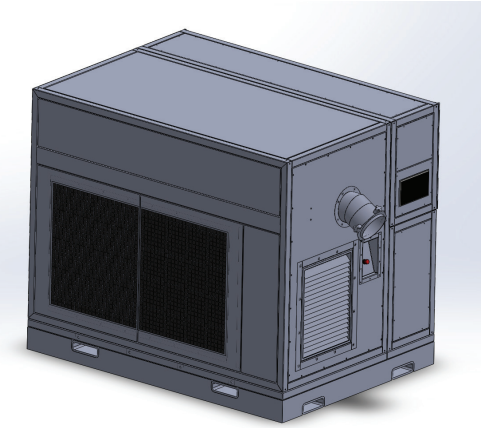
FORGE
HEAVY INDUSTRIES

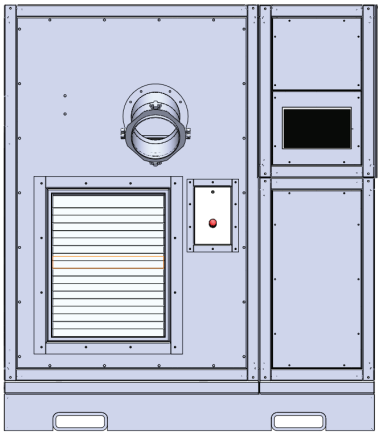
MAAC

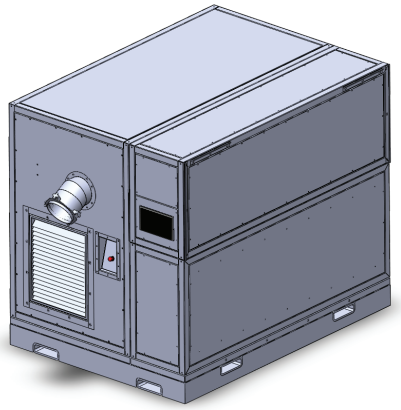
Multiple Aircraft Air Conditioner

PRODUCT APPLICATIONS

The MAAC is the second generation of ITW Military's venerated JO3C (Now known as ITW GSE). Utilizing newer refrigerants with a lower Global Warming Potential (GWP), custom control electronics, a distributed condenser airflow profile, and fully customizable, the MAAC can fit any situation or deployment. The intuitive graphical user interface is similar to the JO3C's interface allowing past users to easily adapt to the new system. The MAAC can service multiple different aircraft without factory intervention to set up for a new aircraft. It can all be done from the user interface. Language localization and customization is available upon request at no extra charge. The flexible air conditioning system can also be coupled with a 400Hz or 270V solid state converter to allow one piece of ground support equipment to service an aircraft in a hanger or on the tarmac.







PERFORMANCE FEATURES

- Available in Diesel, Electric, or Both
- Mobile or Stationary Options available
- Easy Access to all Periodic Maintenance Parts
- R1234yf refrigerant (GWP = 1)
- Very small footprint for its capabilities
- Ability to set, store, retrieve, and use operator settings for output air pressure, flow, and temperature.
- Power Quality exceeds Mil-Std-704F and F-35 standards
- Simple Control Interface and indications
- All information available via a digital display

Benefits

The flexibility of the air conditioning system allows extreme weather operation and ability to service any known aircraft for avionics cooling or even an open hose operation to cool down the cargo bays of larger aircraft. If an aircraft is not in the database, a manual setting can be used to service or cool any aircraft or environment.

Options

- 400Hz or 270VDC Solid State Converter
- F-16 Servo Air
- Diesel or Electric Driven
- Mobile or Stationary
- Remote Control Station for Facility Installations (Full Display or Pendent)
- Localization of Languages upon request
- Full Factory Customizations available

www.ForgeHI.com

For Sales and Support Call +1-385-837-9252 or Email Sales@ForgeHI.com
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Multiple Aircraft Air Conditioner

SPECIFICATIONS

General

- Operating Temperature: -40F (-40C) to 140F (60C)
- Storage Temperature: -65F(-54C) to 160F(71C)
- Central Controls for system operation
- Instrument Accuracy: > 2%

Cooling Air Output

- Maximum outlet pressure 6 PSI out of the unit
- Delivered air volume: 25 to 100PPM variable
- Nominal delivered air temperature at unit output, 125F ambient, 50F @ 50PPM at 5.5 PSIG
- Standard output Hose: 30ft of 8 inch hose with 10ft of 4 inch hose with fitting for aircraft as required

Standards / Specifications

- MIL-STD-704F Aircraft electrical power characteristics
- NFPA 70 Article 500

400Hz Output

- 115/200V, 3 Phase, 90kW
- Voltage 0.5% No Load – Full Load
- Frequency 0.1% no Load – Full Load
- Meets Mil-Std-704F
- Harmonics: Less than 3% of total
- Standard Output Cable: 30ft each with NATO Standard AC Plug (other lengths optional)
- Complete protection package

270VDC Output

- 270VDC ±3V, 72kW
- Transient performance exceeds Mil-Std-704F
- Meets F-35 power quality requirements
- 28V @ 15A – Interlock

The MAAC can be used on the following Military Aircraft Fighters worldwide:

- F15
- F16
- F18
- F35
- T50/FA50
- EFA Typhoon
- Mirage
- JAS 39 Gripen
- Mitsubishi F2
- And Others

Model	Cooling Capacity	Input Power	Output Power	Length	Width	Height	Weight
MAAC Skid Mount	115.2kW (32.9 Tons)	400/480VAC 50/60Hz	Optional 400Hz or 270VDC	84 inch	61 inch	70 inch	6,000 pounds
MAAC Trailer Electric	115.2kW (32.9 Tons)	400/480VAC 50/60Hz	Optional 400Hz or 270VDC	116.5 inch	85 inch	90 inch	7,000 pounds
MAAC Trailer Diesel	115.2kW (32.9 Tons)	Diesel Fuel	Optional 400Hz or 270VDC	116.5 inch	85 inch	95.5 inch	12,850 pounds

Available January 2026 and specifications may change

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