



20T400MP-TMD-1 CGAC

Diesel Powered Combined Generator/Air Conditioner



Model 20T400MP-TMD-1 CGAC



F-16 Falcon

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:

- Low emission diesel operates with all jet fuels.
- Environmentally approved R134a refrigerant.
- Latest screw compressor technology.
- High reliability, low maintenance power transmission system - beltless, non-mechanical.
- All systems laboratory and field tested - operates in worldwide environments with thousands of failure-free hours.

SIMULTANEOUS CAPABILITIES:

- Output power: 45 kVA, 3PH, 400 Hz. Performance meets MIL-STD-704E.
- Cooling: Up to 100 lbs./min. Meets requirements for F16 and other aircraft such as F15E, F/A18, Japanese F2, French Mirage 2000.
- Servo Air: 0.5 lbs./min. at 10-100 PSIG.

PERFORMANCE FEATURES:

Proven design:

- Semi-Hermetic screw compressor refrigeration circuit
- Solid State 28VDC Rectification (optional)
- Aluminum box frame and panels
- 28 VDC control system
- Meets all UL, NEMA, CE, NEC, OSHA, NFPA, ASHRAE, ASME and AHM 73 & 74 standards

Easy to Operate:

- Simple lighted button operator station mounted at ramp level
- Automatic controls modulate system and monitor for faults

Durable:

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



Model	Cooling Capacity	Heating Capacity	400 Hz Output	Length	Width	Height	Weight
20T400MP-TMD-1 CGAC	243.6 MBH Gross (71.4 kW), 187.5 MBH Net (55 kW)	72.7 MBH	60 kVA at 115 VAC	144" (356 cm)	78" (198 cm)	74" (188 cm)	10,200 lb (4,627 kg)

FROM DESIGN TO DEPLOYMENT

20T400MP-TMD-I CGAC Diesel Powered Combined Generator/ Air Conditoner Unit Specifications

ENGINE

- 4-cycle water cooled diesel, low exhaust emission - meets EPA standards, jet fuel capable
- Electronic speed control
- Automatic shutdown
- High temperature
- Low oil pressure
- Overspeed

400HZ OUTPUT

- 115/200V, 3PH, 90kVA
(45 kVA with air conditioner on)

Regulation

- Voltage $\pm 0.5\%$ No Load - Full Load
- Frequency $\pm 0.1\%$ No Load - Full Load
- Meets MIL-STD-704
- Harmonics: less than 2% total
- Output Cable: 30 ft. with NATO Standard AC plug (other lengths optional)
- Complete protection package
- All circuits solid state, USAF stock listed
- Separate ON/OFF control for 400Hz and air systems
- Electro-Hydraulic drive systems

SERVO AIR

- 0.5 lbs./min. @ 10 PSIG min.
- 30 ft hose with fitting for F16 included (fittings for other aircraft available)

COOLING AIR OUTPUT

- Max. outlet pressure 5 PSIG
- Delivered air volume: 0 to 100 PPM adjustable
- Nominal delivered air temp @ 105°F, 210 grains ambient: 45°F @ 65 PPM
- Output Duct: 30 ft. with fitting for aircraft as required (other lengths available)
- R-134a Refrigerant

GENERAL

- Operating temperature: -30°F to 110°F
- Storage temperature: -40°F to 150°F
- Noise: less than 90dBA @ 10 meters
- No belts, no mechanical drive components
- MTBF 3000 hrs. minimum - low maintenance

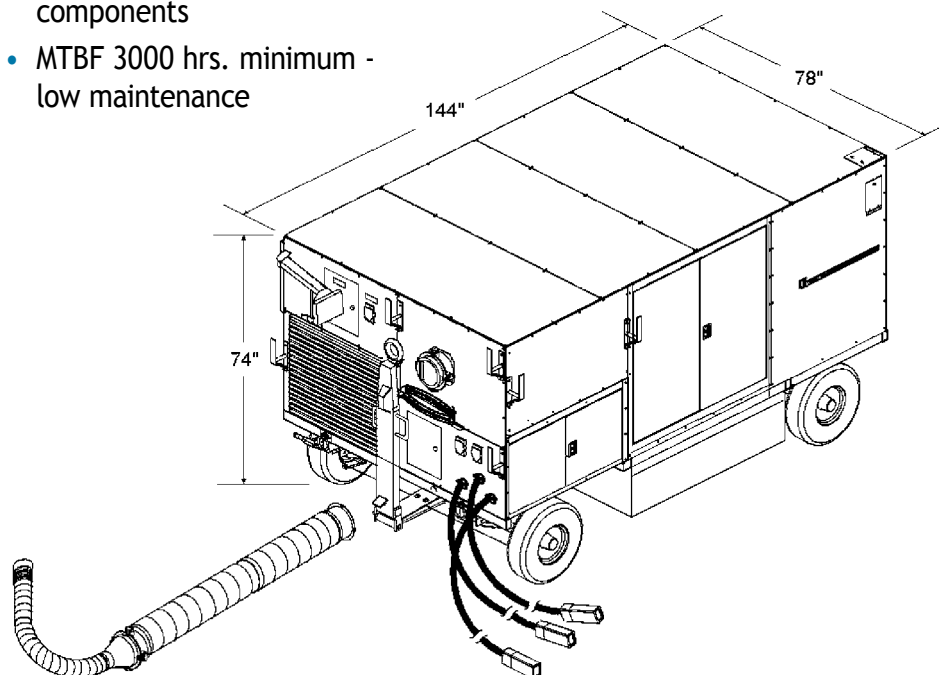
TRAILER

- One steering and one fixed axle heavy duty leaf spring
- Drum parking brakes
- 6.90 x 9" 6-ply tires
- 15 mph tow speed
- Draw bar 52" with 3" ID lunette eye

OPTIONS

1. 115V, 1PH, 400Hz output receptacle
2. 110V or 220V, 50/60Hz, 2kW utility output
3. Worklight
4. 28 VDC, 600 amps output

Specifications subject to change without notice.



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F R O M D E S I G N T O D E P L O Y M E N T