

# 600 Series

## 180 PPM CONTINUOUS FLOW JET START UNITS



**The 600 Series** are truck or trailer mounted continuous flow jet engine starting units producing 180 PPM at up to 40 psig start air pressure. Basic components include an air-cooled rotary screw compressor, diesel engine, and the ACE air regulating system. Standard features include dual mode operation, automatic throttle roll-back and an easy access canopy. These components and features combine to produce the most versatile and cost-efficient air start units available.

### DESIGN FEATURES

- **“Oil-free dry-screw” rotary compressor.** Precision clearances of compressor rotors eliminates the need for teflon or other coatings, which can fail due to differential expansion between rotors and casing.
- **Integral oil cooler and fan** as part of the compressor eliminates unnecessary plumbing.
- **Double seals and ventilated intermediate chambers** prevent oil contamination of rotors.
- **Easy to operate,** with engine/compressor instrumentation on control panel.
- **Flexible coupling,** the engine and the compressor are connected by a flexible coupling.
- **Integrated housing** bolts directly to engine flywheel eliminating alignment problems.
- **Automatic throttle roll-back system** to decrease engine RPM when full output is not required, reducing noise and fuel consumption.
- **Two mode operation.** Air pacs and jet start modes have independently adjustable supply pressures.
- **Aircraft safety systems**-designed to protect from overpressure, during starting procedures.
- **Safety systems,** designed to protect the unit from damage due to high temperature or a loss of oil pressure.
- **Normal compressor overhaul** at 25,000 operating hours.
- **Wide canopy doors** allow unhampered access to all components for ease of routing maintenance.
- **Outlet air temperature** of approx. 390°F (200°C) assures quick starts.
- **One outlet provided.**
- **Properly rated chassis cab or fifth wheel steering trailer**-highly maneuverable in congested airport environments.
- **24 Volt DC system.**
- **Fuel filter/water separator.**
- **Fault annunciation.**

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### OPTIONAL EQUIPMENT

- Hush kit. To provide 92 dBA at 3 meters around the unit.
- Fuel filter/water separator with heater, 24 VDC.
- Engine block heater, 120 VAC or 240 VAC.
- Detroit Diesel "DDEC" automatic ether start kit, 24 VDC.
- Low fuel warning system.
- Low fuel warning and rampdown to idle system.
- Flashing beacon.
- Rotating beacon.

### DESIGN SPECIFICATIONS

ACE Model No.	600-180-DDS	600-180-DDP	600-1180	600-2180
Engine	Detroit Diesel	Detroit Diesel	Deutz	Deutz
Model	Series 60 (12.7 Liters)	Series 60 (12.7 Liters)	BF8M1015	BF8M1015
Horsepower	425	425	394	394
Compressor	Aerzen	Aerzen	Aerzen	Aerzen
Model	VML310	VML310	VML310	VML310
Air Flow PPM	180	180	180	180
Mounting	Truck*	Trailer	Truck*	Trailer
Length Inches (cm)	174 (442)	212 (538)	154 (391)	192 (488)
Width Inches (cm)	80 (203)	80 (203)	80 (203)	80 (203)
Height Inches (cm)	64.75 (165)	87.25 (222)	70 (178)	91 (231)
Weight Lbs (Kg)	10,815 (4,916)	11,460 (5,209)	10,815 (4,916)	11,460 (5,209)

\*Provided as skid unit for truck mounting. Contact ACE for assistance with chassis selection and dimensions including chassis.



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