



T400-SLN SERIES

SUPER-LOW NOISE DIESEL engine driven 400 Hz power units for aircraft servicing and starting



Model T400-SLN

APPLICATION

- Low noise unit meets most stringent noise specifications. Unit produces less than 79 dBA at 10 feet (3m).
- Extremely tight electrical performance characteristics make these units ideal for all aircraft.
- Broad applicability with optional single or dual 28VDC output for starting DC (as well as AC) powered aircraft.
- Custom features available.

FEATURES AND BENEFITS

- Water cooled, 4 cycle turbo charged diesel engine for quiet, economical operation.
- Maintenance free, 400 Hz brushless generator system.
- Complete instrumentation and protection package for engine and electrical outputs.
- Built in "Press-to-Test" feature for protective circuits. Eliminates requirement for separate test box.
- State of the art, solid state, high reliability AC voltage regulator and protection circuits.
- Outstanding transient and steady state output performance at aircraft cable head regardless of cable length.
- Highest reliability in the industry with an MTBF in excess of 3000 hours.
- Complete access "clamshell" canopy design.
- Slide out control drawer allows for complete access to all electronic control components.
- Compact, lightweight, low profile for easy maneuverability and positioning.
- Vertically mounted PCB's.

SPECIFICATIONS

ENGINE

- 4 cycle water cooled diesel
- Automatic Shut Down
High Temperature
Low Oil Pressure
Overspeed
- Accessories
Dry type air cleaner, full flow fuel and lubricating oil filters, muffler, heavy duty radiator, blower type fan, battery charge alternator
- Controls and Instruments
Fuel level, water temperature and oil pressure gauges, run time meter, battery voltmeter, ignition switch, panel light switch, pushbutton start, full speed/idle switch, safety circuit breakers/fuses.

TRAILER

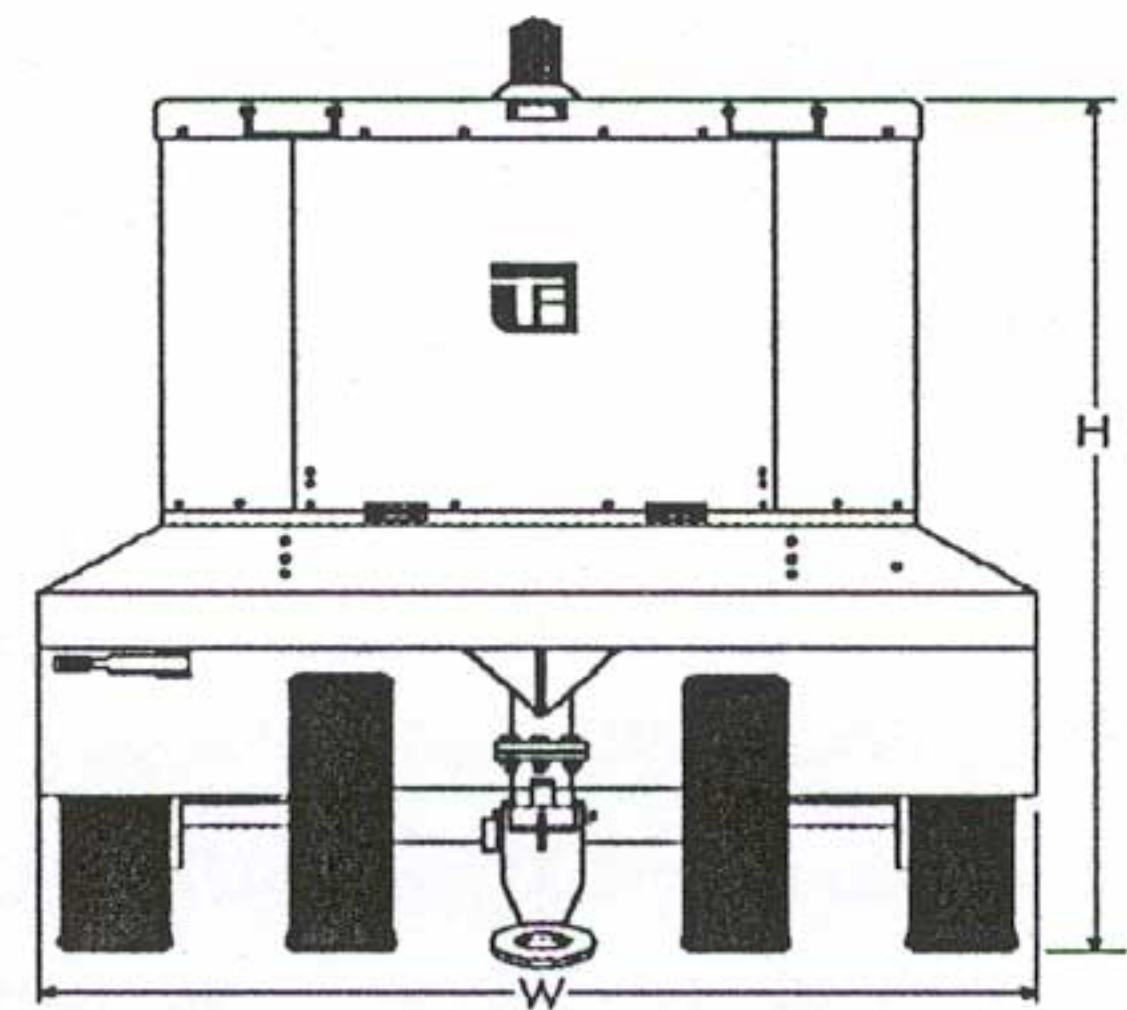
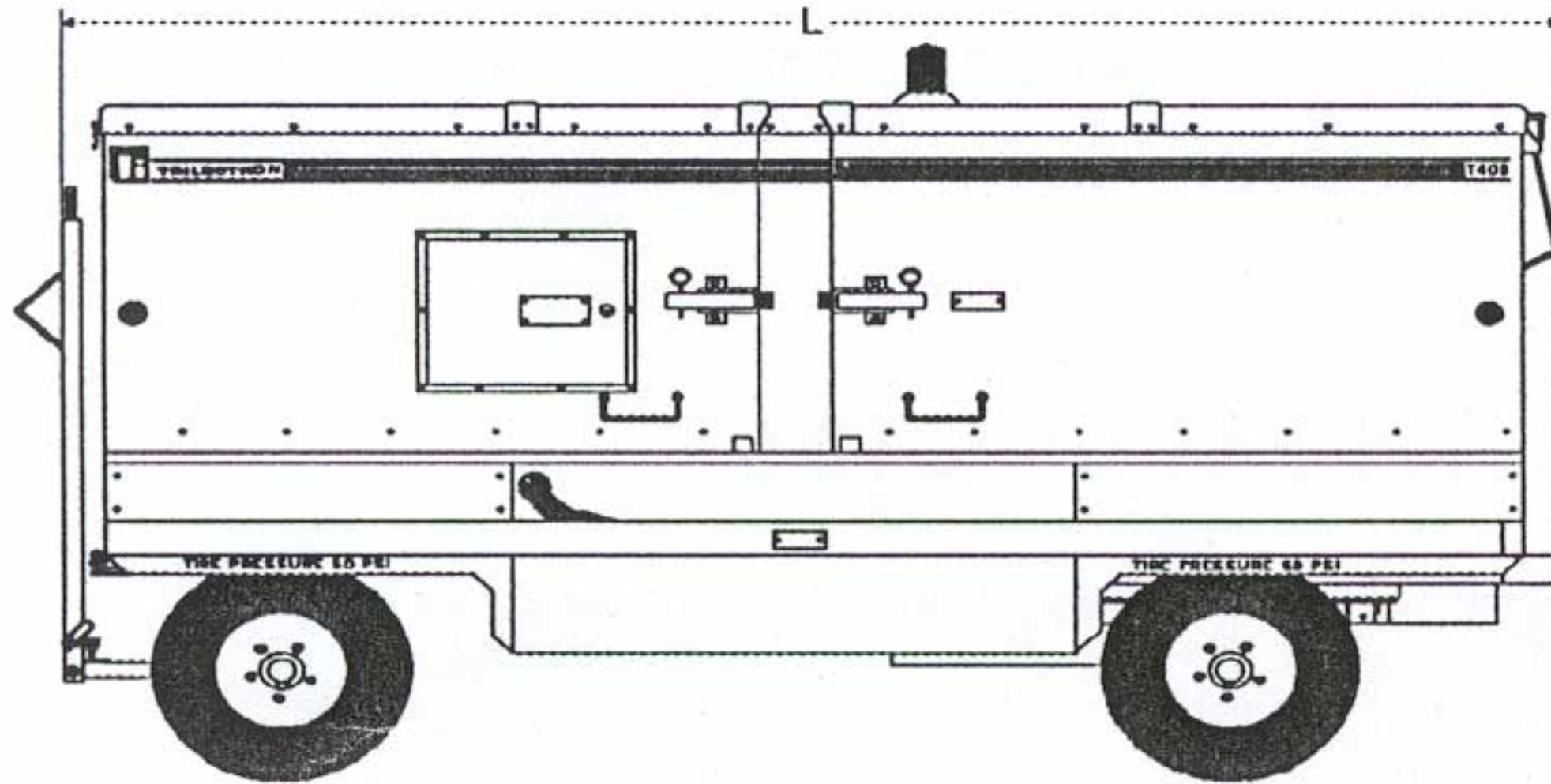
- Heavy duty 4 wheel steerable, with leaf spring suspension
- Tires: size varies with unit rating (consult factory)
- Rear mechanical drum parking brakes
- Draw bar 52" with 3" eye; 15MPH tow speed
- Turntable

ELECTRICAL

- AC — 115/200V 3PH 400Hz 0.8PF
- Voltage Regulation: $\pm 0.25\%$ no load-full load
- Frequency Regulation: $\pm 0.1\%$ no load -full load
- Transients — no load-full load:
Voltage: 12%; recovery 0.08 sec. max.
Frequency: $\pm 1\%$; recovery 1 sec. max.
- Harmonics — less than 2% total harmonic content
- Electrical performance well within MIL-STD-704

OPTIONS

- Dual AC outputs
- Exterior hazard lights
- Skid mount
- Cold weather start aid
- Low fuel alarm and shutoff
- DC Outputs
 1. 28.5V 800A cont., 2000A peak
 2. 28.5V 1500A cont., 2500A peak
 3. 112V 450A continuous



| RATING | MODEL NO. | DIMENSIONS: INCHES (CM) | | | LBS (KG) |
|--------|-------------|-------------------------|----------|----------|-------------|
| | | LENGTH | WIDTH | HEIGHT | WEIGHT |
| 40kVA | 40T400-SLN | 114 (290) | 63 (160) | 63 (160) | 4300 (1955) |
| 60kVA | 60T400-SLN | 114 (290) | 63 (160) | 63 (160) | 4400 (2000) |
| 90kVA | 90T400-SLN | 126 (320) | 63 (160) | 63 (160) | 4500 (2050) |
| 120kVA | 120T400-SLN | 126 (320) | 63 (160) | 63 (160) | 4700 (2140) |



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