

# **STADCO RAILGEN™ KITS**

## **STADCO MARK 5 RAILCAR GENERATORS**

### **FOR COMMERCIAL OPERATORS**

Ready-to-install packaged low profile diesel generator systems. Purpose built specifically for underslung mounting on passenger railcars. Designed to provide continuous, prime or auxiliary power in a high quality, reliable, easy to operate and maintain package. Designed with the needs of the commercial owner/operators in mind.

#### **Complete factory engineered package:**

Requires minimal field engineering for on-site installation. **Installation requires:** furnishing unit support members, connect fuel supply piping to outside fittings, mount muffler & tailpipe, connect remote control panel wiring, furnish load wiring and furnish 12V battery.

#### **Full Enclosure:**

Equipped with multi-layer sound absorbing material for quiet operation. Engine/Generator unit mounted with high performance vibration isolators and crash stops. Basically, this package is a sociable prime power system you can run day and night in demanding environments.

#### **Heavy Duty Industrial Quality:**

Capable of sustained heavy duty power output at continuous power, but also engineered to minimize carbon build-up or wet stacking conditions common with extended light duty operation. Expect normal service life of over 15,000 hours before overhaul.

#### **Complete Control System:**

Standard control configuration includes: control interface wiring harness, wired to distribution box to provide for choice of Remote control panels. Choice of Remote (In-car) control panels optionally available from Stadco or Stadco approved third party supplier. Refer to Bulletin #S121 for control panel information.

#### **Simplified Routine Maintenance Procedures:**

All routine service points within reach of dual service access doors. Removable panels front, back and top for major service access. Convenient oil drain access hatch.

#### **Cooling Air Filter:**

Cooling air stream is filtered. Extended life, easy cleaning, filter system to minimize cooling system cleaning requirements. Reduces dirt accumulation inside enclosure.

#### **Installation Flexibility:**

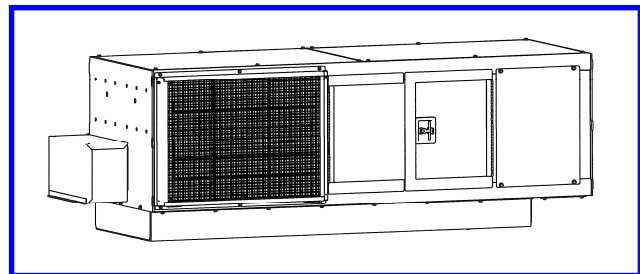
Designed for installation underneath railcar frame. Steel plate mounting points provided at both ends to accept customer supplied brackets (or optional Stadco mounting kits) for mounting unit to railcar frame. Installation instructions are included with operators manual.

#### **Single Source Responsibility:**

Stadco is the single source, full service supplier for Railgens. **We design it - We build it - We support it.** Stadco warranty policy covers entire unit for 24 months or 3000 hours - Refer to warranty policy on website for details.

#### **Comprehensive Product Support:**

- Comprehensive stock of spare parts
- Full shop services
- Road services
- Complete rebuilding services
- Phone technical support



**Model 5-80T3**

#### **Brief Specifications:**

- Refer to Stadco Sales Specifications S77 for more complete data.
- 55 KW, Model 5-55T3: Enclosure size (Approx): 83”L x 32”W x 30”H, Approx. Weight - 2600 lbs.
- 80 KW, Model 5-80T3: Enclosure size (Approx): 89”L x 34”W x 30”H, Approx. Weight - 2800 lbs.
- 110KW, Model 5-110T3: Enclosure size (Approx): 91”L x 34”W x 32”H, Approx. Weight - 3000 lbs.
- 150KW, Model 5-150DA: Enclosure size (Approx): 105”L x 38”W x 32”H, Approx. Weight - 3900 lbs.
- 175KW, Model 5-175DA: Enclosure size (Approx): 110”L x 38”W x 32”H, Approx. Weight - 4200 lbs.
- 190KW, Model 5-200CA: Enclosure size (Approx): 116”L x 38”W x 32”H, Approx. Weight - 4600 lbs.

## STANDARD EQUIPMENT:

1. Premium quality Deutz diesel engine prime movers operating at 1800 RPM for longevity, reliability and quiet operation. All engines are EPA certified for exhaust emissions compliance. Deutz engines have a proven track record for exceptional field reliability. Fuel economy is exceptional on all models.
2. Generator: Direct coupled, Class H insulation. Electronic voltage regulation. Operated at Continuous duty rating to allow for moderate non-linear (unbalanced) phase loading.
3. Available Dual-station control system offering an Engine start & stop panel, plus a main Remote control panel for in-car mounting. Microprocessor controlled engine protection system monitors engine condition continuously. All-Digital AC and DC control systems are available.
4. Welded tubular steel unit frame supports generator set and protective enclosure. Steel plate mounting points provided at both ends to accept mounting kits or roll out track kits for attachment to railcar.
5. Complete enclosure equipped with multi-layer sound absorbing material for quiet operation. Sheet steel construction with air intake plenum. Filter (foam media) for cooling air inlet; provided to keep interior and radiator clean. Two service access doors, plus removable access panels on all sides.
6. Heavy duty dry air cleaner with dual safety elements and rotary type precleaner. Air cleaner service indicator gauge.
7. Critical quality muffler with 10' of S.S. flex tailpipe. Furnished loose for on-site installation.
8. Load circuit breaker (Must be Customer Supplied).
9. Power distribution box for load and control terminals. All control circuits and load circuits wired to terminal strips.
10. Battery box and battery cables are standard. Mounted externally.
11. Fuel system: fuel transfer pump, Racor remote auxiliary water separator filter and fine secondary filter.
12. Cooling system: Purpose designed heavy duty welded aluminum heat exchanger radiator with pressure rating many times stronger than a conventional radiator. May be cleaned with a low pressure washer. Operates with cool air flow within the enclosure.

## SUMMARY:

Reference documentation: S32 Sales Specifications, S121 Control System, Rail Warranty statement, P41 Price List. **Request Railgen marketing package for complete set of information, data and pricing.**

**Members of RPCA**

## RELATED PRODUCTS:

- ◆ **Stadco HR Railgen generator systems. Available in 30, 40 KW sizes.**
- ◆ **Stadco CD Compact skid base generators: Available in 10, 15, 20, 30, and 40KW sizes.**
- ◆ **Stadco skid base type generator sets. Available in 80, 100, 200, 345, 400 and 450 KW sizes.**
- ◆ **Web Support: Visit [www.stadcogen.com](http://www.stadcogen.com) for sales & product support information.**