



## **GREEN STAR** SYSTEM MONITORING MAKES IDLE REDUCTION EASY

Rosenbauer's GREEN Star™ idle reduction system uses electronic controls to shut down the chassis engine on-scene when the fire pump is not engaged or Aerial Operations underway. These electronic controls then start the diesel-driven Auxiliary Power Unit (APU) which supports the 12 Volt electrical system and provides a minimum of 8 kW of 120/240 volt power. This APU is also capable of maintaining the chassis heating and cooling requirements. The APU uses approximately one-fourth the fuel compared to the chassis engine, thus saving fuel costs, lowering emissions, and extending the service intervals between oil changes, DPF service or replacement.

### **GO GREEN**

Until the introduction of Rosenbauer's exclusive GREEN Star™ idle reduction technology, the fire service didn't have a viable "green" solution for automotive fire apparatus.



EQUIPPED WITH:  **rosenbauer**

# **GREEN STAR<sup>®</sup>**

## **IDLE REDUCTION TECHNOLOGY**

GREEN STAR IS A REGISTERED TRADEMARK OF ROSENBAUER AMERICA, LLC - PATENT PENDING

### **REMOTE START STOP FEATURE**

Digital screen display includes APU hour meter and countdown time until green mode.

# GREEN STAR

## GO GREEN

Reasons for going GREEN:

- Environmentally friendly
- Fits community green initiatives
- Contributes to healthier working conditions for crew
- Reduces diesel exhaust
- Reduces service intervals over lifetime of apparatus
- Cost effective

## FREE FUEL COST SAVINGS ANALYSIS

Receive a fuel cost savings analysis by contacting us or by going online to [www.rosenbaueramerica.com/features/green-star-irt](http://www.rosenbaueramerica.com/features/green-star-irt) or contact your local Rosenbauer dealer.

## OUR FUEL COST ANALYSIS WILL PROVIDE YOU POTENTIAL ESTIMATED SAVINGS BASED ON THREE FACTORS:

- Number of non-pumping calls responded to annually
- Average time spent idling per call
- Price paid per gallon of diesel fuel

## SAVE HUNDREDS OF GALLONS IN DIESEL FUEL ANNUALLY

- Diesel engines use a minimum of 1.25 gallons of fuel per hour while idling.
- GREEN Star™ only uses one quart, saving one gallon an hour. Nationally, 80 percent of response calls do not require the use of the fire pump or aerial operations.
- GREEN Star™ idle reduction technology mitigates the two leading causes of overconsumption of fuel on non-pumping response calls. The results are considerable; departments have measurable savings within five years.\*

\* Results vary depending on call volume, time spent on-scene and fuel prices. Savings realized no matter the size or call volume of department.

## HANDS-FREE GREEN MODE ACTIVATION

GREEN Star™ features fully-integrated automatic engine controls. Fire apparatus operators experience a hands-free system activation. The APU is tested by starting before the main chassis engine is shut down. This prevents the engine shutting down and subsequently not being able to start the APU.

## STAY COOL IN THE SUMMER, HOT IN THE WINTER

- GREEN Star™ supports auxiliary heating and/or air conditioners operating on the APU power. Even with the apparatus' main chassis engine turned off, crew members can rehab from harsh weather conditions.
- On-scene: GREEN Star™ operates off the auxiliary power mode for heating and/or cooling comfort.
- At the station, GREEN Star™ operates in the 120 Volt mode while the apparatus is attached to a shoreline, keeping the cabin at a controlled temperature.
- Sacrifice nothing! The crew has all the same power and features as if the main chassis engine were running. Only GREEN Star™ has the technology to make this possible.

## SAVE THOUSANDS IN DPF AND SERVICE COSTS

- Diesel soot clogs the exhaust DPF due to frequent low engine temperature during idling. GREEN Star™ bypasses the DPF, thus reducing service and replacement costs of diesel particulate filters.
- Idling time on response calls traditionally ranges from 10 to 45 minutes.
- DPF Cleaning: \$300 x 2 annually and/or DPF Replacement = \$5,000 (per lifetime)

## POWERFUL AUXILIARY DIESEL GEN-SET

- GREEN Star™ is a clean diesel technology utilizing a diesel-fired gen-set. The APU has similar physical dimensions and takes up no additional space than a standard generator.
- The GREEN Star™ base configuration provides 8 kW of 120 Volt/240 Volt electrical power, thus eliminating the need for a second power source. All NFPA 1901 required electrical devices such as warning lights, scene lighting, and communications radios are supported. Battery Green Star Systems also available.
- APUs are in use on many types of transportation including airliners, locomotives, and long-haul trucks. Optional 12K APU also available.

## GREEN-UP EXISTING APPARATUS

GREEN Star™ can be retrofitted onto most existing fire apparatus\* to provide the outstanding fuel savings. Retrofits are a great way to employ green technology to an aging fleet.

\*Certain restrictions relating to space and chassis electrical may apply.

 ROSENBAUER GROUP

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**Rosenbauer South Dakota, LLC**  
100 Third Street; Lyons, SD 57041  
605.543.5591

**Rosenbauer Motors, LLC**  
5190 260th Street; Wyoming, MN 55092  
651.462.1000

**Rosenbauer Minnesota, LLC**  
5181 260th Street; Wyoming, MN 55092  
651.462.1000

**Rosenbauer Aerials, LLC**  
870 S Broad Street; Fremont, NE 68025  
402.721.7622



ROSENBAUERAMERICA.COM | INFO@ROSENBAUERAMERICA.COM