



# GREEN STAR



## SYSTEM MONITORING

### 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.



### IDLE REDUCTION MADE 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. 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 and DPF service and replacement.

**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/green\\_star](http://www.rosenbaueramerica.com/green_star) 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.
- 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.

## HANDS-FREE GREEN MODE ACTIVATION

GREEN Star™ features fully-integrated automatic engine controls. Fire apparatus operator's experience a hands-free system activation. As the main chassis shuts down, the auxiliary power unit is remotely started. If needed, the controls will re-start the main chassis engine to prevent low voltage.

## 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.
- APUs are in use on many types of transportation including airliners, locomotives, and long-haul trucks.

## 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.

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