

# 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 8kW 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.



# Answers.

 **rosenbauer**  
Firefighting Technology  
P. O. Box 57  
Lyons, South Dakota 57041  
(605) 543-5591

Contact your local Rosenbauer dealer  
for a **FREE GREEN STAR** informational dvd.  
Find your local dealer by visiting our  
web site [www.rosenbaueramerica.com](http://www.rosenbaueramerica.com)

green technology for the fire service



# GREEN STAR

IDLE REDUCTION TECHNOLOGY - CLEAN DIESEL TECHNOLOGY



PATENT PENDING 2009



# 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.

Reasons for going GREEN by including **GREEN Star™** on your next Rosenbauer apparatus:

- Environmentally friendly
- Fits community green initiatives
- Healthier working conditions for crew
- Reduces diesel exhaust
- Reduces service intervals over lifetime of apparatus

## 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 over consumption 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.*

## 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's 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 120V mode while the apparatus is attached to a shoreline, keeping the cabin at a controlled temperature.
- **Sacrifice nothing!** Crew have all the power and features as they would if the main chassis engine was running. Only **GREEN Star™** has the technology to make this possible.

## "Hands-free" green mode activation

**GREEN Star™** features fully-integrated automatic engine controls. Fire apparatus operators 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 a low voltage situation.

## 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 10-45 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 8kW 120V/240V 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.*