

# SG-3000e Series

Seamless Performance. Cost-Effective Power.

GENERATOR SET RANGE FOR MARINE CONTAINERS OUTSIDE OF NRMM, GB4, EPA AND CARB REGIONS





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## SG-3000e - the proven standard for reliability

For years, Thermo King has been leading the way in making more efficient, reliable units available to all customers.

The SG-3000e genset is the result of years of experience in designing and maintaining units for different climatic and operational conditions. The durable genset benefits from the most advanced technology and a highly reliable design.

The result? A, reliable source of electric power for refrigerated containers, no matter the ambient temperature or cargo type.

UP TO  
**-20%** Less fuel consumption (gal/h)

### SG-3000e with Ecopower as standard

The combination of ThermoKing's patented technology and cutting-edge hard- and software enhancements lead to the SG-3000e's record fuel savings.

The genset delivers more than 20% fuel savings compared to standard offerings outside of NRMM, GB4, EPA, and CARB regions while using the enhanced operation mode.



# SG-3000e Series Generator Sets

## POWERS ALL REEFERS

The power output of the SG-3000e ensures it can power all reefer models. The unit also incorporates stable voltage control to intelligently regulate power and keep it within the limits set by ISO 1496. The SG-3000e features an intelligent controller that, all in all, provides you with "trusted power."

## ROBUST & RELIABLE

Designed for tough conditions. The SG-3000e has a robust steel frame, mechanical engine and a more durable alternator.

Unit has a WIF sensor that detects water in the fuel which is a big advance to prevent engine failures. Beside of the WIF we have fuel strainer that prevents dirt getting into the fuel system making our unit even more reliable.

## FLEXIBILITY

Specifically designed for reefer applications, the SG-3000e is available in 3 models: Clip-on, centermount and sidemount.

## EASY TO OPERATE

The user-friendly interface features a multi-language, high resolution display that ensures that the unit is operated properly.

## CONVENIENT

Extremely low fuel consumption and extended maintenance periods result in lower life-cycle costs.

## The SG-3000e features & benefits

### FEATURES

- Steel frame with extensive 6 step cleaning finished in powder-coated stainless steel and zinc dichromate and e-coated copper tube and aluminum fin radiator
- SG+1.5 microprocessor controller with user friendly full text menus and advanced diagnostics
- Advanced engine technology featuring an innovative high pressure injection pump
- High efficiency generator featuring robust design, stable voltage control and premium corrosion protection
- Patented cyclonic media air cleaner and ThermoKing patented spin-on, self-evacuating fuel filter
- Extended maintenance intervals (EMI 3 000) allowing 3 000 hours between services
- Fuel filter (EMI 3 000) with extended maintenance interval
- WIF & Fuel strainer to extend engine life and prevent early fuel filter replacements



### BENEFITS

- Provides extended corrosion resistance in harsh environments
- Assures ease of use and service
- The guarantee of a long term investment
- Greater efficiency, reliability and corrosion resistance
- Improved filtering capacity for a longer engine life and extended maintenance intervals
- Reduced maintenance costs, improved uptime and extended engine life



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# SG+1.5: Microprocessor Controllers

## CONTROLLER

Get a longer trace of operation history with the increased datalogger memory, USB port available for quick log download and software update.

## ENGINE MANAGEMENT

Ability to operate genset at variable speeds for reduced fuel consumption and emissions.

## USER-FRIENDLY INTERFACE

A four lines, clear display allows full-message text for immediate understanding of the unit status, settings and alarm messages.

Eliminates the need for acronyms and code tables.

## DUAL LANGUAGE SUPPORT

The extended memory and advanced menu system supports both English and Spanish.

This not only applies to the alarms, but to the entire menu navigation process.

## ADVANCED DIAGNOSTICS

Simplified pre-trip components test function and advanced selfchecking diagnostic capabilities, including manual function tests and assuring trouble-free operation.

## FUEL MONITORING CAPABILITY

Full download of fuel data is available by connecting to the download port on the front of the control box. Keeps track of fuel consumption and detects abnormal situations.





# SG-3000e: Product range

## CLIP-ON, PLUG IT IN. SGCO-3000e

Streamlined dimensions and serviceability are key features of the aerodynamic clip-on genset.

This fully self-contained unit mounts to the container's corner castings with quick-disconnect fasteners or optional header pin mounting.

The unit acts as a mobile power source wherever the container goes and is ideal for railcar and double stacking. It includes a built-in 125 gallon "true draw" fuel tank.

## SIDEMOUNT CONFIGURATION SGSM-3000e

This model is designed for applications requiring under mounting on the side of a container chassis rather than in the centre.

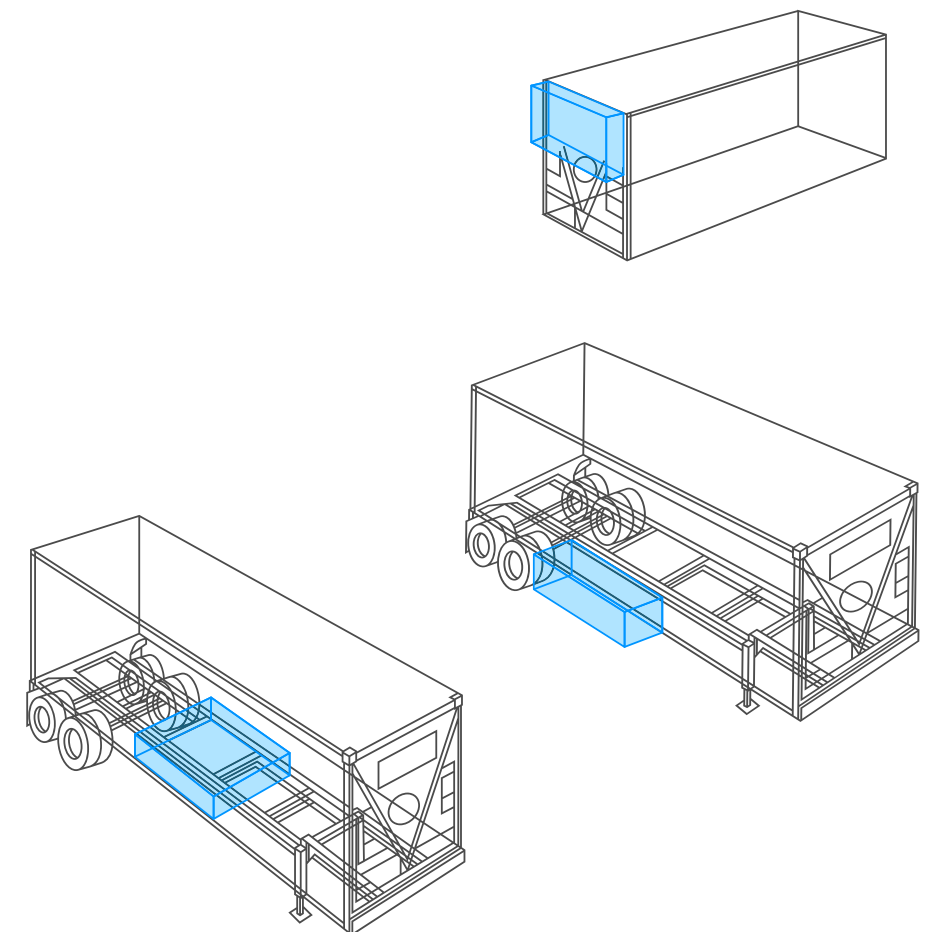
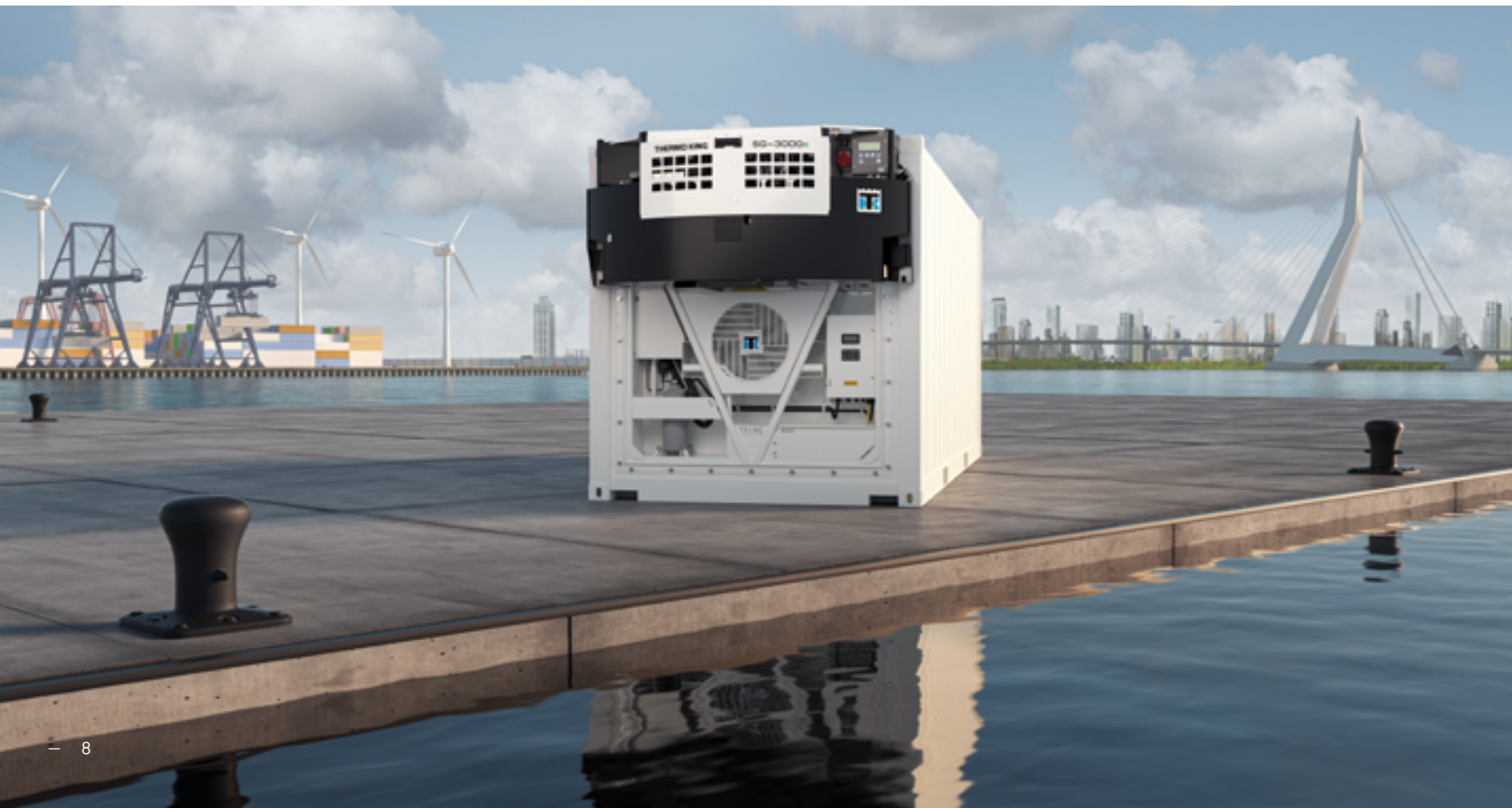
It Includes a 75 gallon fuel tank and optional quick connect/disconnect mounting arms to further simplify application. Tank-less option available.

## CENTERMOUNT CONFIGURATION SGCM-3000e

The centermount model mounts under the centre of the container chassis between the I-beams to allow for maximum road clearance and an even weight distribution.

Built-in quick disconnect mounting hardware allows it to be easily mounted and removed.

It has an integral 80 gallon fuel tank. Tank-less option available.



# Configurations & specifications



### CLIP-ON

The self-contained SGCO-3000e unit clips on to the corner castings with quick-disconnect fasteners or an optional header pin mounting.

Dimensions:  
700 x 2 337 x 1 053 mm  
(27.55 x 92.0 x 41.45 in)\*

### SIDEMOUNT

The sidemount SGSM-3000e unit can be fitted easily on the side of a container chassis with optional quick connect/disconnect mounting arms to further simplify application.

Dimensions:  
533 / 1 092 with fuel tank x 1 984 x 787 mm  
(21.0/ 42.0 with fuel tank x 78.3 x 31.0 in)\*



### CENTERMOUNT

The centermount SGCM-3000e model mounts under the centre of the container and features built-in quick disconnect mounting hardware to be easily mounted and removed.

Dimensions:  
1 334 x 1 524 x 800 mm  
(52.5 x 60.0 x 31.5 in)\*



# Technical specifications

TECHNICAL DATA	
Engine: TK Diesel engine 30.1 hp, mechanical direct injection, naturally aspirated with closed crankcase ventilation	
Fuel Type	No. 2 diesel (under normal conditions) / No. 1 diesel (cold weather fuel)
Rotational Speed	1 890 ±10 rpm / 1 560 ±10-0 rpm
Generator: 460/230 Vac, 3 Phase, 60 Hz	
Nominal Output Power	15 kW
Apparent Power	18.75 kVA
Rotational Speed	1 800 rpm
Electrical System: SG+1.5 microprocessor controller	
Battery	12V, 925 CCA at -18 °C (0°F)
Fuel Tank: Included in all models	
SG Clip-on	4 73l (125 gal)
SG Centermount	302 l or 1 98 l (80 gal or 50 gal)
SG Sidemount	2 83 l (75 gal)

\* Specifications are subject to change

### SGCO-3000e



Weight:  
818 kg (1804 lbs) - Total weight, including genset, oil, coolant, dry fuel tank and battery.

### SGSM 3000e



Weight:  
678 kg (1495 lbs) - Total weight, including genset, oil, coolant, dry fuel tank and battery.

### SGCM-3000e



Weight:  
671 kg (1480 lbs) – Total weight, including genset, oil, coolant, dry fuel tank and battery.

All gensets to be provided with decal indicating gross weight inclusive of fuel.

### THE IMPORTANCE OF ALWAYS USING THERMO KING SPARE PARTS

Genuine Thermo King replacement parts are proven time after time to beat the competition in side-by-side testing. Engineered to provide optimal performance and maximum life, Thermo King service parts protect your investment and provide you peace of mind. Insist on Genuine Thermo King parts, every time!

\* Dimensions: Width x Depth x Height (mm and in)

# SG-3000e Series Generator Sets

## – POWERS ALL REEFERS

The SG-3000e Series can power all ISO reefers under any condition thanks to its 30.1 hp engine.

## – ROBUST & RELIABLE

Designed for tough conditions. The SG-3000e has a robust steel frame, mechanical engine and a more durable alternator.

## – FLEXIBILITY

Specifically designed for reefer applications, the SG-3000e is available in 3 models: Clip-on, centermount and sidemount.

## – EASY TO OPERATE

The user-friendly interface features a multi-language, high resolution display that ensures that the unit is operated properly. Controller ensures easy troubleshooting.

## – CONVENIENT

Extremely low fuel consumption and extended maintenance periods result in lower life-cycle costs.



Thermo King – by Trane Technologies (NYSE: TT), a global climate innovator – is a worldwide leader in sustainable transport climate control solutions. We engineer and provide cutting-edge technology and solutions with sustainability, reliability, and the customer experience in mind. Thermo King has provided transport temperature control solutions for various applications, including trailers, truck bodies, buses, air, shipboard containers, and railway cars since 1938.

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