



Welcome to the GO₂ REVOLUTION

USER GUIDE

Visit us at www.go2globalyachting.com

**GO₂ Diesel
Fuel Optimizer**

- 8% to 14% less fuel
- Up to 40% less soot
- Up to 70% less diesel fumes

GO₂ User instructions

Thank you for purchasing GO₂, our highly effective nanoparticle based diesel fuel additive. Please take a moment to read these instructions. If you have any questions, please get in touch by email using support@go2globalyachting.com, or by calling the helpline numbers listed here:

For the USA & Caribbean: +1 585 271 5630

For Europe & the Middle East: +44 33 33 447 111

What to expect

We recommend that users allow a burn in period of 100-300 hours, during which time the full effect of using GO₂ will develop. Actual time taken will depend on engine condition, type and operating variables such as load and RPM. During this burn in period your engines will be working to expel any carbon build up they have accumulated. GO₂ will produce a lot less new soot and this will in turn allow the carbon within your engines that has previously been trapped, to come out of the exhaust. Observations of soot being expelled from your exhaust are not likely to change until this has had a chance to work itself out.

Initial indications that GO₂ is working will include a change in exhaust composition as unburned hydrocarbons are removed (some notice a less poignant smell), and a reduction in soot, as combustion efficiency is improved. If you have multiple engines/generators, expect to see these changes develop on the most heavily loaded units first.

Dosing instructions

For your initial dose, we recommend a 1:3000 ratio. After your initial dose GO₂ needs to be

added to diesel at the rate of 1:4000. For example, if you are treating 4000 litres of diesel, then add 1 litre of GO₂ to your tank. If you are treating 4000 US gallons of diesel, then add 1 US gallon of GO₂ to your tank.

For our smaller containers (4 litre/1 gallon) please use the measuring container to measure the correct quantity for your fuel amount. For our larger containers, please use the spigot and a graduated measure.

Add GO₂ to your fuel tank before adding diesel, as this aids dispersion. Once added, GO₂ will stay suspended in your fuel indefinitely.

Dosing Tips

As every yacht is different, we cannot recommend any single dosing option or procedure. You know your boat and its systems best. However we have brought together the experiences of our users, from a variety of different boats, to illustrate a number of possible approaches to dosing.

Smaller vessels

If filling a single tank via a through deck filler then:

- note the amount of fuel remaining in the tank and the amount of fuel to be added
- calculate the amount of GO₂ required
- add the required dose prior to fuelling

If filling two or more tanks:

- if you have a day tank, press this full prior to commencement of fuelling

- note the amount of fuel remaining in each tank and the amount of fuel to be added to each tank
- calculate the amount of GO₂ required for each tank
- add the required amount of GO₂ to each tank, followed by the new fuel
- work in turn through all your tanks, using the valves on the fuel manifold as required, until all tanks have been dosed and filled with fuel

Larger vessels

- top off day tank(s)
- transfer fuel between tanks to leave empty tanks where possible to avoid mixing of different fuel deliveries and in order to minimise the number of tanks to be filled
- note the amount of fuel remaining in each tank and the amount of fuel to be added and calculate the amount of GO₂ required
- to add GO₂ to your tanks:
 - It may be possible to pre dose the tanks via the deck fitting

It may be possible to integrate an inline fitting with your fuel transfer pump. This fitting would be a 3-way extension that allows you to open a fuel cock and draw a measured amount of GO₂ from a container and direct it toward a specific fuel tank. Once the measured amount of GO₂ has been drawn, be certain to flush the route with enough fuel to clear the product from the lines before directing more product to the next tank.

- It may be possible to fit a manual dosing device to the fuel manifold via the flush valve fitting, depending on fuel manifold design
- It may be possible to dose via fuel tank sounding pipes where fitted, provided that flame arresters aren't fitted
- Automated dosing systems are available to fully automate the dosing process, either dosing all fuel as it passes through the bunker line or else dosing with GO₂ each time that the day tank is refilled

Safety instructions

Read and follow all safety instructions on the product label and read the Material Safety Data Sheet provided.

Store GO₂ in accordance with the safety instructions. Note that GO₂ is a flammable liquid. Please store in a cool location away from direct sunlight.

Be sure to wear proper protective clothing when handling GO₂.

Please consider the environment when disposing of containers after use. Consult your local waste management service for more information.

