20720 Earl St. Torrance CA 90503 310-214-5092

www.srigc.com sales@srigc.com

Model 510 Methanizer Kit

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The SRI Model 510 Methanizer kit part# 0510-0081 ($1873 in Jan 2026) let users add/retrofit a methanizer to any GC,

The 510meth operates on 12 volts DC power provided by any 12volt power supply able to deliver 4 amps or more. No high voltage makes it safe to use inside a GC column oven.

The methanizer catalyst (nickel) converts CO and CO2 to methane so an FID detector can measure CO/CO2 at the same sensitivity as methane. Molecules other than CO/CO2 pass through the catalyst un-reacted so ethane (for example) would not react with the catalyst. Molecules with chemical structures similar to CO/CO2 will also reduce to methane. So formic acid, formaldehyde and other molecules can be measured by FID when the methanizer is installed where without the methanizer, formic acid, formaldehyde, etc would not be detected or have extremely small response on a normal FID. The catalyst tube can be in the GC column oven or just outside depending on the particular installation. The user must supply a flow of hydrogen to the inlet fitting through the 1/16" tube welded into the fitting. The column connects to the same fitting with a 1/8" swagelok connection. 1/8" to smaller id (.53, .4mm type) soft graphite ferrules allow connection of capillary columns of any diameter as well as 1/8" packed columns which are common for gas analysis. The exit fitting is connected to the FID inlet using the same ferrules and a short section of tubing which can be capillary, 1/16" metal or 1/8" metal tubing (not supplied).