

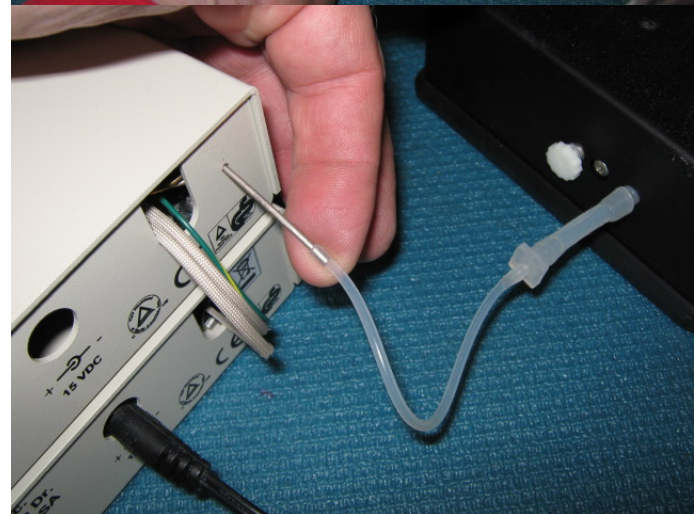
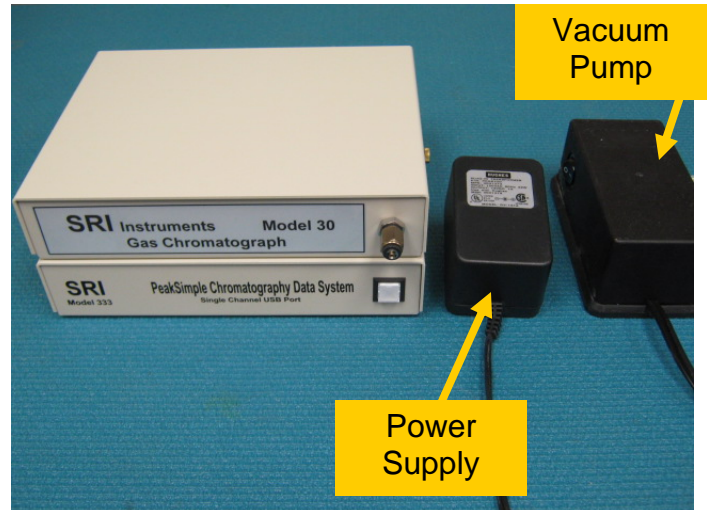
SRI Instruments Model 30 GC Operation

October 2009

The SRI Model 30 GC is shown at right. Included with the Model 30 as standard equipment is a 15 volt DC power supply (unregulated) and a small vacuum pump. Both items plug into the wall power and must be specified for 120 volt AC or 220 Volt AC operation.

Plug the power supply into the wall and then into the back of the Model 30.

Attach the silicone tubing from the vacuum pump to the outlet tubing on the back of the Model 30. The silicone tubing just twists onto the Metal tubing about 1 centimeter.



SRI Instruments Model 30 GC Operation

October 2009

The vacuum pump has an on-off switch which should be turned on. You will feel the vacuum pump vibrate when the power is on.



Plug the USB cable from your Windows computer into the back of the Model 30. Make note of the 3 digit device i.d.# printed on the case next to the USB jack. This number must be entered in the software in order to establish communication.



Remove the two brass thumb-screws holding the top cover.



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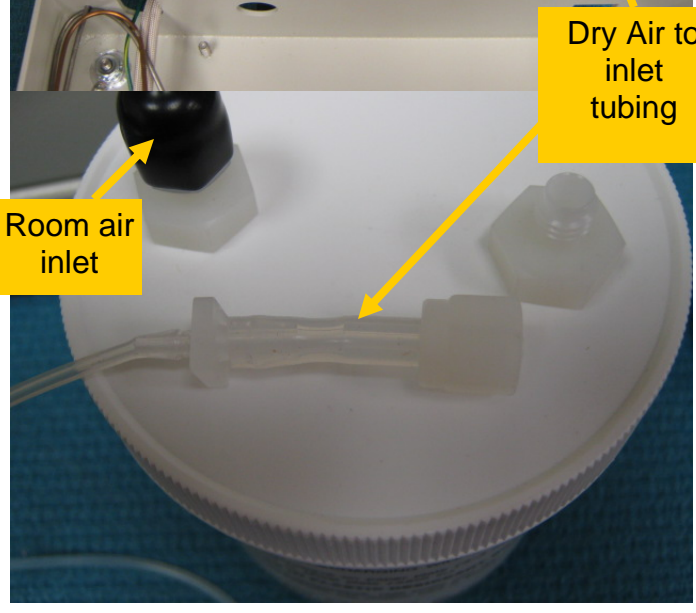
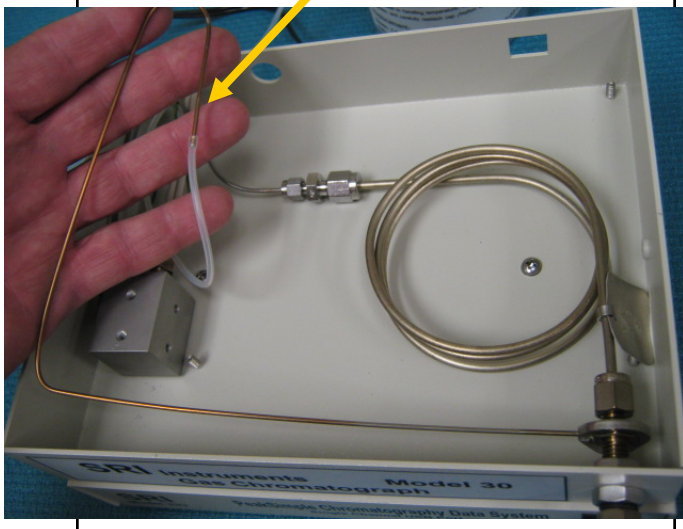
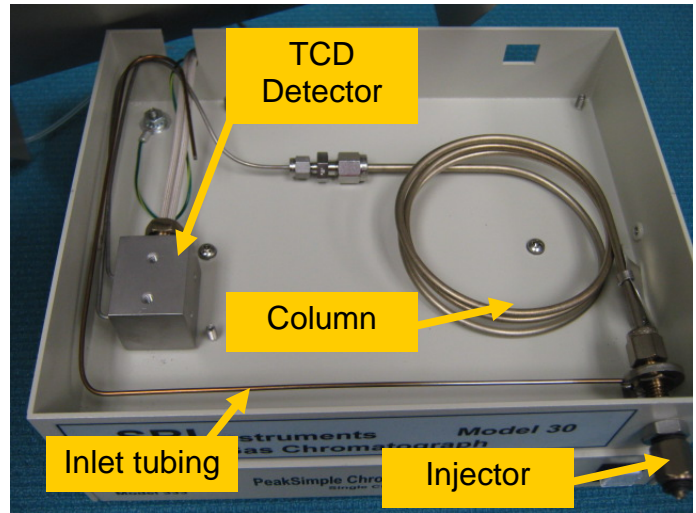
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Inside the oven compartment you will see the injector, column and detector.

The 1/16" stainless steel inlet tubing has a brownish color (from the cleaning process) and is open to the air. This is fine for most applications of the Model 30 where room air is the desired carrier gas.

In some cases it may be preferable to dry the water out of the room air to be used for carrier gas. SRI Instrument's sample stream dryer kit (part# 8670-5850 US\$ 495.00) can be used for this purpose.

One fitting on the top of the dryer is left open to room air. The other fitting is connected to the Model 30 inlet tubing using the silicone tubing provided.



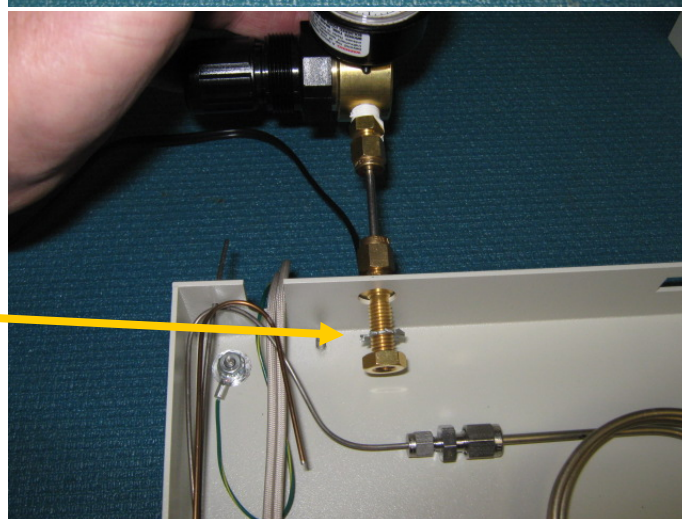
SRI Instruments Model 30 GC Operation

October 2009

Where helium or other bottled gas is the preferred carrier gas, SRI Instruments part #0030-0022 Carrier gas pressure regulator kit US\$ 195.00 is helpful.

Connect the 1/8" brass bulkhead through the hole in the back of the oven compartment. Note the lock washer and nut.

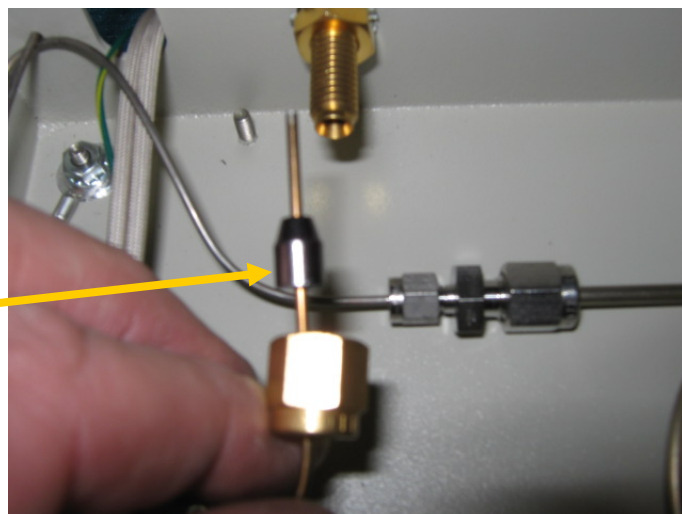
Tighten the nut securely with a 1/2" wrench.



SRI Instruments Model 30 GC Operation

October 2009

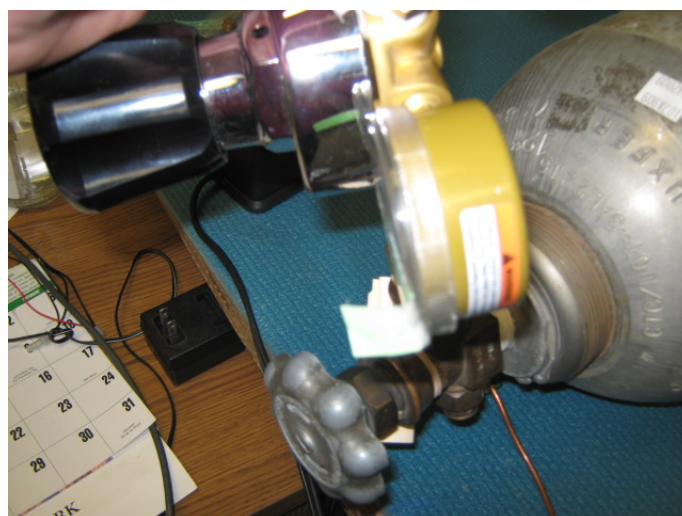
Connect the Model 30 inlet tube to the bulkhead using a 1/8" to 1/16" graphite reducing ferrule and swagelok nut.



Tighten the nut securely with a 7/16" wrench.



Connect the pressure regulator to the gas cylinder using copper tubing and swagelok fittings. Set the pressure to about 10 psi for a 1 meter packed column and adjust up or down as required.



SRI Instruments Model 30 GC Operation

October 2009

With the Model 30 connected to either the vacuum pump (with or without air dryer) or gas cylinder, the included PeakSimple software must be installed and configured to perform the GC analysis.

Please follow the Model 333 Quick start instructions which explain how to install PeakSimple software, load the USB driver using the Windows Wizard, and insert the device id# in the appropriate entry box. The device id# is the 3 digit number on the back of the Model 30 next to the USB jack.

Once the software has been installed you are ready to make an injection into the Model 30's injection port using the 1ml gas tight syringe supplied.

Just prior to injection through the septum depress the start switch to begin the analysis.

