

Costech CHN Analyzer Start Up and Shut Down

Pre-Run Instrument Check (when the instrument has been in stand by):

1. Check the tanks pressures. Below 500 tanks should be replaced. Pressures on tank regulators should be set as follows:

He=38 psi
O₂=25 psi
Air=40 psi

2. Check gas flows with flow meter. **It is best to set the flow of gases on instrument by checking them with the flow meter, than just looking on the dial!**

He= 100mL/min
O₂= 25-30mL/min

3. Check instrument pressures. Instrument pressures should read on the gauges as follows:

He= 1.2 Bar
O₂= 1.0 Bar
Air=2.5 Bar

4. Conduct a static leak check.

Press F3 to take gases out of stand by. **Leak check cannot be done in stand by.**
Place cap on He vent.

On the instrument panel, turn He regulator clockwise to increase pressure, wait 10 seconds. Then turn the regulator counter clockwise until loose. Watch He gauge for 1 minute. If gauge drops > 0.25 Bar then press F3. Loss of pressure means that there is a leak in the system.

Repeat this leak check for oxygen.

5. Starting up the Instrument (**Start only if the instrument passes leak check**)

Press WORK
Enter
Press REMOTE
Enter

6. Let ovens heat up (approximately 20-30 minutes). When all LEDs are green then instrument is ready.

Left=1000 C
Right=650 C
Oven=60 C

6. While instrument is heating up enter sample information on computer.

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7. Shutting Down the Instrument
Press ABORT
Enter
Press ST-BY
Enter