



Thermo 48i CO Maintenance Schedule

Routinely (weekly/monthly)

1. Check the instrument for any alarms.
2. Check recent ambient and calibration data for any anomalies.
3. Check key diagnostics such as flow, pressure, temperatures and S/R ratio. Recommend graphing 1-month periods to check for drift.

Every 1 month

1. Replace the sample filter on the gas inlet line.
2. Check pump for excessive noise/vibration/heat.

Every 3 months

1. Clean fan filter

Every 6 months

1. Perform a multi-point calibration and adjust slope/offset if necessary
2. Perform flow calibration/leak check.

Annually

1. Replace IR source. Clean the correlation wheel and IR source at the same time. **NOTE:** This can be done every 2nd year if desired.
2. If the optional internal Zero Scrubber is installed, replace the scrubber material.

Other - as needed

1. Clean/replace capillary if flow drops.
2. Install pump kit if flow drops, but capillary is good.
3. Replace sample pump if excessive noise/vibration/heat.
4. (48i-TLE only) Replace permeation dryer when discoloured (usually every 2 or 3 years).
5. Replace chopper motor when Motor Speed is alarming or motor has excessive noise/vibration/heat.
6. Replace the correlation wheel when the S/R ratio is between 1.13 and 1.14. Reset the Initial S/R ratio to match current ratio after the wheel is replaced. Zero instrument.