
Site preparation at a glance

Before the GC arrives, make sure your laboratory meets the following environmental, weight, power, and gas requirements. You should also refer to this checklist for

supplies that you need to operate your GC, such as traps and tubing. You can find more site preparation information in this chapter.

Site Preparation Checklist

- The site is well ventilated and free of corrosive materials and overhanging obstacles.
- Site temperature is within the recommended range of 20 to 27°C.
- Site humidity is within the recommended range of 50 to 60%.
- Bench space is adequate for the GC with EPC: 50 cm x 58.5 cm x 50 cm (21 in. x 23 in. x 21 in.)
Bench space is adequate for the GC without EPC: 50 cm x 68 cm x 50 cm (21 in. x 26.7 in. x 21 in.)
- Bench can support the weight of the HP 6890 system.
- Power receptacle is earth grounded.
- Electrical supply meets all GC's power requirements; see page 10.
- Voltage supply is adequate for oven type. **Regular oven:** 2,250 VA. **Fast-heating oven:** 2,950 VA.
- Gas supplies meet the requirements of your columns and detectors; see page 12.
- Gases meet purity requirements. All should be chromatographic-grade—99.9995% pure or better. Air should be zero-grade or better.
- Obtained precleaned, 1/8-inch copper tubing for inlet and detector gas supplies.

Optional supplies:

- Inlet and detector gas supplies have two-stage pressure regulators installed (optional).
 - Obtained traps for inlet and detector gas supplies—molecular sieve trap, hydrocarbon trap, and/or oxygen trap.
 - Obtained liquid N₂ or liquid CO₂ (depending on requirements) for cryogenic cooling.
 - Obtained 1/4-inch insulated copper tubing for liquid N₂ supplies **OR** 1/8-inch heavy-walled, stainless steel tubing for liquid CO₂ supplies.
 - Obtained insulation for liquid N₂ tubing.
 - Obtained air for valve actuation.
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