

# *TraceGC Exhaust Requirements*

Specialized exhaust systems generally are not required for GC detector systems. However, it is your responsibility to see that local exhaust codes are followed.

You should be aware that certain detectors require the use of hydrogen for fuel gas. Be sure to read *Using Hydrogen* in Chapter 4, *Plumbing the Gas Supply to the GC*, if you plan to use hydrogen with your TRACE system. *Testing for Leaks*, also in Chapter 4, contains information about leak testing to ensure that excessive amounts of flammable gases are not released into the lab atmosphere. The *TRACE Operating Manual* also discusses leak testing in detail.

Laboratories meeting the heating and cooling requirements specified in this manual will sufficiently circulate lab air to prevent accumulation of gases and fumes vented during normal GC use. Extensive leaks in plumbing lines to the GC may present hazards. Be sure to follow all local codes regulating plumbing of gases.

## **Oven Exhaust**

The GC oven exhaust vents are in the rear of the instrument. Hot air (400 °C [750 °F]) exits through these vents during GC operation. As stated under *Space and Load Requirements* in this chapter, there should be at least 30 cm (12 in.) free space behind the instrument to allow the exhaust to dissipate. Any material exposed to the oven exhaust must be able to withstand repeated exposure to temperatures of up to 400 °C (750 °F).

**Oven exhaust can cause severe burns. Avoid working behind the instrument when the oven vents during cooling-down cycles. Do not expose gas tanks or bottles, chemicals, regulators, electrical cords, or other temperature-sensitive items to oven exhaust.**