Super-Clean™ Gas Filters

- High-purity output ensures 99.9999% pure gas (at max. flow of 2L/min.).
- "Quick connect" fittings for easy, leak-tight cartridge changes.
- Glass inside to prevent diffusion; polycarbonate housing outside for safety.

Designed for fast, simple cartridge changing

Cartridge systems make changing gas filters quick and easy, and Super-Clean™ gas filters are the latest in cartridge-style gas filtration. A base plate allows cartridges to be exchanged without introducing oxygen, moisture and hydrocarbons. Spring-loaded check valves seal when a filter is removed and open only when a new filter has been locked in place. There is no longer a need for loosening and tightening fittings every time a trap is changed, and your system will not become contaminated during the process.

With available 2- or 3-position base plates, you can purify all GC gas streams at one location. Figure 1 shows some possible filter cartridge combinations using these base plates. Any combination is possible because any Restek Super-Clean™ gas filter cartridge can be used with any Restek base plate.

High-purity output for improved sensitivity (Table I)

The Triple Gas Filter cartridge (cat.# 22020) is ideal for purifying carrier gas. This trap contains oxygen, moisture, and hydrocarbon scrubbers and indicators for oxygen and moisture in one cartridge. The purity of your carrier gas after flowing through the Triple Gas Filter is better than six-9s (99.9999% pure at max. flow of 2L/min.), which is ideal for sensitive mass spectrometry (MS) or ECD analyses, and for protecting your analytical columns against damage from contaminated carrier gas.

The Fuel Gas Filter cartridge (cat.# 22022) is perfect for purifying flame ionization detector (FID) fuel gases, removing both moisture and hydrocarbons. Using the Fuel Gas Filter for FID hydrogen and air will produce a stable baseline, improving overall reproducibility and sensitivity.

Figure 1 Filter cartridges can be configured for different applications.

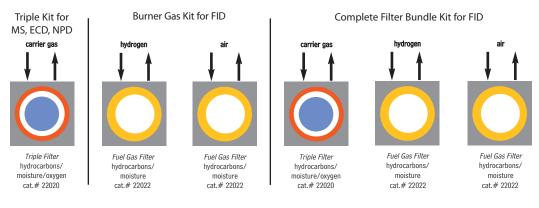


Table I Each Super-Clean[™] gas filter provides high-purity outlet gas.

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apacity ———	Estimated Lifetime (years)
) Hydrocarbons (g)	
_	>2
_	>2
123	>2
24³	>1.5
4 ³	>1
_	>1

Removes hydrocarbons, moisture.

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did you know?

All Super-Clean™ gas filter cartridges (except hydrocarbon filter cat.# 22030) feature easy-to-read indicators. The indicator code is shown on every trap so there is no confusion about when to replace it.

tech tip

Oxygen and Moisture Traps

Restek highly recommends oxygen and moisture traps for make-up gas when operating sensitive detectors such as electron capture detectors (ECD). The hydrogen reaction gas for sensitive electrolytic conductivity detectors (ELCD) also requires a hydrocarbon trap, to remove trace impurities.

Super-Clean™ gas filters are listed on pages 234 and 235.



²Removes hydrocarbons, moisture, oxygen.