

Super-Clean™ Gas Trapping System for LC/MS

Quick-Change Cartridge System for Removing Hydrocarbon Impurities from Nitrogen

by Donna Lidgett, Purus™ Gas Systems Product Marketing Manager

- “Quick connect” fittings, for easy, leak-tight cartridge changes—no tools required to install the traps.
- Spring-loaded check valves—no loosening/tightening fittings each time you change a cartridge.
- No oxygen introduced during filter change-outs—decreases down time.
- Cartridges pre-purged with inert gas—saves time.
- Durable, patented full glass/metal design—combines safety and impermeability.

High-Purity Outlet Gas

Outlet Gas Purity %	Maximum Pressure	Estimated Filter Lifetime
99.9999%	11 bar/159psi	3 to 6 months

The Super-Clean™ Gas Trapping System is the latest technology in cartridge-style gas filtration for removing hydrocarbons from nitrogen, and is ideal for use in LC/MS systems. The cartridge-based system makes changing filters quick and easy. A two-position baseplate (1/4" fittings), installed in the gas line, allows cartridges to be exchanged without introducing oxygen into the system. Spring-loaded check valves seal when a cartridge is removed and open only when a new cartridge has been locked in place. There is no need for loosening and tightening fittings every time you change cartridges, and your system cannot become contaminated during the changing process.

To meet the high flow needs of the LC/MS system, the incoming gas stream is split equally between the two charcoal-filled cartridges, and the two streams are rejoined after purification but before the gas exits the base plate. This approach allows longer contact between the nitrogen and the adsorbent, ensuring higher gas purity and eliminating a potential source of contaminants to your analyses. The system delivers flows of up to 20L of hydrocarbon-free nitrogen per minute.

A handy date wheel, included with the system, indicates the cartridge installation date and the recommended replacement date.



20L of purified nitrogen per minute!

Super-Clean™ Gas Trapping System for LC/MS

Description	qty.	cat.#
Super-Clean™ Gas-Trapping System (2-position base plate, 2 charcoal filters)	ea.	22062
2-Position Base Plate	ea.	22060
Replacement Charcoal Filters	2-pk.	22061

Replacement O-Rings for Cartridge Baseplates

Pack includes 10 large O-rings and 10 small O-rings.



Description	qty.	cat.#
Replacement O-Rings for Cartridge Baseplates	20-pk.	22023

1/8-Inch to 1/4-Inch Tube-End Unions

To adapt the 1/8" baseplate fittings to 1/4", use these 1/8" to 1/4" tube-end unions.



Description	qty.	cat.#
1/8" to 1/4" Tube-End Unions	5-pk.	21833



For descriptions of Super-Clean™ systems for GC, request our catalog or visit our website.



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