Ultra Clean Gas Filters

Simply the best







Features

- Ultra-high capacity
- High-purity output ensures99.9999% Pure gas
- "Quick connect" fittings for easy, leak-tight cartridge changes
- Glass inside to prevent diffusion; plastic outside for safety
- Easy-to-read indicators

Ultra Clean Gas Filters

Cartridge systems make changing gas filters quick and easy. A base plate allows cartridges to be exchanged without introducing oxygen.

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



Carrier Gas Purity

Carrier gas should contain less than 1ppm of oxygen, moisture, or other trace contaminants, to prevent column degradation, increase column lifetime, and decrease stationary phase bleed.

The expense of using high-purity gases in combination with carrier gas line purifiers will be offset by longer column lifetime and less GC maintenance.

Contaminants cause ghost peaks to appear during temperature programming and degrade the validity of analytical data.

Make-up gas also should be contaminant-free, or baseline fluctuations and excessive detector noise can occur; detector gases should be free of water and hydrocarbons, or excessive baseline noise can result.

Gas purifiers remove these contaminants from gas sources, thereby improving system performance.



Ultra Clean Gas Filter Kits for GC



Triple Filter Kit for MS/ECD/NPD

The Triple Filter Kit is an all in one solution ideal for purifying carrier gas. The kit includes 1 Triple (Oxygen/Moisture/Hydrocarbon) Filter cartridge and (1) 1 position base plate.

Filter Type	Part No.	Gas Type	
Triple Filter	N9306819	Carrier Gas	

Kit Part No. N9306829

Complete Filter Bundle Kit for FID

The Fuel Gas Triple Kit is perfect for purifying carrier gas and flame ionization detector (FID) fuel gases, removing oxygen, moisture and hydrocarbons from the carrier gas using the **triple filter** and removing both moisture and hydrocarbons from the Fuel gas using the two **combi filters**. Using the combi filters for FID Hydrogen and air will produce a stable baseline, improving overall reproducability and sensitivity.

Filter Type	Part No.	Gas Type
Triple Filter	N9306819	Carrier Gas
Combi Filter	N9306818	Hydrogen
Combi Filter	N9306818	Air

Kit Part No. N9306843



Ultra Clean Gas Filters for GC

Ultra-High Capacity Moisture Filter Catalog No. N9306814 **Specifications Outlet Gas Quality (%)** > 99.9999 **Maximum Pressure** 11 bar (160 psi) **Maximum Flow** 7 L/min. **Usable For** Inert carrier gas, He, H2, N2, AR, Air **Dimensions** 24 cm x Ø 4.4 cm Weight 0.26 Kg **Estimated Lifetime** > 2 years



Moisture Removal

Moisture in carrier gas lines will prematurely degrade oxygen and hydrocarbon traps and increase detector noise. As a precaution, we higly recommend installing a moisture trap before the hydrocarbon and oxygen traps on all carrier gas lines.

Capacity		
H ₂ O	7.2 g	

Ultra-High Capacity Oxygen Filter

Catalog No. N9306815

Specifications

-1	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Oxygen Removal

Oxygen is a column killer. It is present even in UHP gases, as minutes leaks at fittings allow oxygen to influx against the concentration gradient. Because oxygen can enter a gas line at any fitting or during gas bottle exchange, the oxygen trap should be the last connection before the gas line enters the chromatograph.

Capacity

O ₂ 1000 mL

Ultra-High Capacity Hydrocarbon Filter N9306816 Catalog No.

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Hydrocarbon Removal

Use a hydrocarbon trap if your gas has a potential source of hydrocarbon contaminants or if you suspect you are observing carrier gas ghost peaks. Install the hydrocarbon trap after the moisture trap, to prevent moisture from degrading the hydrocarbon-trapping ability of the activated carbon in the hydrocarbon trap.

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HC 24 g	(as <i>n</i> -butane)
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Ultra-High Capacity Indicating Hydrocarbon Filter

N9306817 Catalog No.

Specifications

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Indicating Hydrocarbon

The hydrocarbon trap is also available with AT indicator.

Capacity

HC 24 g (a	s <i>n</i> -butane)
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High Capacity Combi Filter

Catalog No. N9306818

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Fuel Gas Filter

The Fuel Gas Filter 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 reproducability and sensitivity. Ideal for use in combination with a zero air generator.

Capacity

H ₂ O	3.5 g
НС	12 g (as <i>n</i> -butane)

High Capacity Triple Filter

Catalog No. N9306819

Specifications

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Triple Filter

The Triple trap is ideal for purifying carrier gas. It contains oxygen, moisture and hydrocarbon scrubbers in one easy to change economical cartridge

Capacity

H ₂ O	1.8 g
02	500 mL
нс	7 g (as <i>n</i> -butane)

High Capacity Triple Filter with AT Indicator

Catalog No. N9306821

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Triple Filter with AT Indicator

The Triple trap is also available with AT indicator for Hydrocarbon.

Capacity

H ₂ O	1.8 g
02	500 mL
НС	7 g (as <i>n</i> -butane)



Catalog No. N9306820

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Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	Не
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Triple Filter Helium Specific

The Helium-Specific Triple trap is ideal for purifying helium in GC/MS systems. This trap is packed and purged under helium and contains oxygen, moisture and hydrocarbon scrubbers in one cartridge.

Capacity

H ₂ O	1.8 g
02	500 mL
НС	7 g (as <i>n</i> -butane)

High Capacity Triple Filter Hydrogen Specific

Catalog No. N9306822

Specifications

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	7 L/min.
Usable For	H2
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	> 2 years



Triple Filter Hydrogen Specific

The Hydrogen-Specific Triple trap is ideal for purifying hydrogen in GC/MS systems. This trap is packed and purged under hydrogen and contains oxygen, moisture and hydrocarbon scrubbers in one cartridge.

Capacity

H ₂ O	1.8 g
02	500 mL
НС	7 g (as <i>n</i> -butane)

Ultra Clean Gas Filters for LC/MS



To meet the high flow needs of the LC/MS system, the hydrocarbon or moisture filled cartridges are positioned and placed in parallel. The incoming gas stream is split equally between the cartridges and the two streams are rejoined after purification but before the gas exits the base plate.

Kit Part No. N9306840

Ultra-High Capacity Hydrocarbon Filter bundle for LC/MS

Catalog No. N9306823

Specifications

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	20 L/min.
Usable For	Nitrogen
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	3 to 6 months



Hydrocarbon Removal

Up to 20 L/min. of hydrocarbon-free nitrogen per minute.

Capa	city
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HC 24 g (as *n*-butane)

Ultra-High Capacity Indicating Hydrocarbon Filter bundle for LC/MS

Catalog No. N9306825

Specifications

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	20 L/min.
Usable For	Nitrogen
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	3 to 6 months



Indicating Hydrocarbon

The high flow hydrocarbon trap is also available with AT indicator.

Capacity

HC 24 g (as *n*-butane)

Ultra-High Capacity Moisture Filter bundle for LC/MS

Catalog No. N9306824

Specifications	
Outlet Gas Quality (%)	> 99.9999
Maximum Pressure	11 bar (160 psi)
Maximum Flow	20 L/min.
Usable For	Inert carrier gas, He, H2, N2, AR, Air
Dimensions	24 cm x Ø 4.4 cm
Weight	0.26 Kg
Estimated Lifetime	3 to 6 months



Moisture Removal

High Flow moisture filters are ideal for central purifying solutions. Moisture in carrier gas lines will prematurely degrade oxygen and hydrocarbon traps and increase detector noise. As a precaution, we higly recommend installing a moisture trap before the hydrocarbon and oxygen traps on all carrier gas lines.

Capacity	

H ₂ O 7.2 g	
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Ordering Information

Ultra Clean Filter and Base plate Kits



Part No. *	Description	qty.
N9306829	Ultra Clean 1 Triple Filter Kit - $^1/8''$ Brass Includes (1) 1 position base plate with $^1/8''$ Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Trap	kit
N9306833	Ultra Clean 1 Triple Helium Specific Filter Kit - $^{1}/_{8}$ " Brass Includes (1) 1 position base plate with $^{1}/_{8}$ " Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Helium Specific Trap	kit
N9306837	Ultra Clean 1 Triple Hydrogen Specific Filter Kit - $^1/_8$ " Brass Includes (1) 1 position base plate with $^1/_8$ " Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Hydrogen Specific Trap	kit
N9306843	Ultra Clean 3 Filters Kit - $^1/_8$ " Brass Includes (1) 3 position base plate with $^1/_8$ " Brass inlet/outlet fittings and (1) Oxygen/Moisture/Hydrocarbon Trap and (2) Hydrocarbon/Moisture Traps	kit

^{*} For ordering base plates or Ultra Clean Gas filter kits with a different connector type please check www.perkinelmer.com/gcsupplies for the correct part number.



Ultra Clean Replacement Filter Bundles

Part No.	Description	qty.
N9306826	Ultra Clean Filter Bundle of 3 Includes (1) Oxygen/Moisture/Hydrocarbon Trap and (2) Hydrocarbon/ Moisture Traps	bundle
N9306827	Ultra Clean Filter Bundle of 4 Includes (1) Moisture Trap, (1) Oxygen Trap, and (2) Hydrocarbon Traps	bundle





Part No.	Description	qty.
N9306814	Ultra Clean Moisture Filter	ea.
N9306815	Ultra Clean Oxygen Filter	ea.
N9306816	Ultra Clean Hydrocarbon Filter	ea.
N9306817	Ultra Clean Hydrocarbon AT Filter	ea.
N9306818	Ultra Clean Combi (Hydrocarbon/Moisture) Filter	ea.
N9306819	Ultra Clean Triple (Oxygen/Moisture/Hydrocarbon) Filter	ea.
N9306821	Ultra Clean Triple (Oxygen/Moisture/Hydrocarbon) with AT indicator Filter	ea.
N9306820	Ultra Clean Triple (Oxygen/Moisture/Hydrocarbon) Helium-specific Filter	ea.
N9306822	Ultra Clean Triple (Oxygen/Moisture/Hydrocarbon) Hydrogen-specific Filter	ea.

Ultra Clean Filter Base plates



Part No. *	Description	qty.
N9306801	Ultra Clean Base plate 1 Position - 1/8" Brass	ea.
N9306805	Ultra Clean Base plate 2 Position - 1/8" Brass	ea.
N9306811	Ultra Clean Base plate 3 Position - 1/8" Brass	ea.

^{*} For ordering base plates or Ultra Clean Gas filter kits with a different connector type please check www.perkinelmer.com/gcsupplies for the correct part number.

Ordering Information

Ultra Clean Base plate Flush Cap Replacement Set for GC/MS



Part No.	Description	qty.
N9306852	Ultra Clean Flush Cap Replacement Set	2-pk.

Wall mounting Bracket for all Cartridge base plates



Part No.	Description	qty.
N9306855	Ultra Clean Wall-mounting Bracket Set	ea.

Replacement O-Rings for all Cartridge base plates



Part No.	Description	qty.
N9306854	Ultra Clean Base plate O-ring Replacement Set	20-pk.

Super Clean™ Base plate fittings for GC/MS



Part No.	Description	qty.
N9306846	Ultra Clean Connector Set - 1/4" Brass	6-pk
N9306847	Ultra Clean Connector Set - 1/8" Brass	6-pk
N9306848	Ultra Clean Connector Set - 1/4" Stainless steel	6-pk.
N9306849	Ultra Clean Connector Set - 1/8" Stainless steel	6-pk.

Ultra Clean Filter and Base plate Kits for LC/MS



Part No. *	Description	qty.
N9306840	Ultra Clean High Flow Hydrocarbon Filter Kit - $^1/_4$ " Brass Includes (1) 2 position high flow base plate with $^1/_4$ " Brass inlet/outlet fittings, (2) High Flow Hydrocarbon Traps, and a $^1/_4$ " Brass Particle Filter	kit

^{*} For ordering base plates or Ultra Clean Gas filter kits with a different connector type please check www.perkinelmer.com/gcsupplies for the correct part number.

Ultra Clean Replacement Filter Bundles for LC/MS



Part No.	Description	qty.
N9306823	Ultra Clean High Flow Hydrocarbon Filter Bundle Includes (2) High Flow Hydrocarbon Traps	bundle
N9306825	Ultra Clean High Flow Hydrocarbon AT Filter Bundle Includes (2) High Flow Indicating Hydrocarbon Traps	bundle
N9306824	Ultra Clean High Flow Moisture Filter Bundle Includes (2) High Flow Moisture Traps	bundle

Ultra Clean Base plate for LC/MS



Part No. *	Description	qty.
N9306808	Ultra Clean High Flow Base plate 2 Position - 1/4" Brass	ea.
	Includes 1/4" Brass Particle Filter	

^{*} For ordering base plates or Ultra Clean Gas filter kits with a different connector type please check www.perkinelmer.com/gcsupplies for the correct part number.

Ordering Information

Particle Filter for LC/MS



Part No.	Description	qty.
N9306856	Ultra Clean 0.5 Micron Particle Filter (1/4" Brass)	ea.
N9306857	Ultra Clean 0.5 Micron Particle Filter Cup Replacement Pack	12-pk.

Ultra Clean Base plate fittings for LC/MS



Part No.	Description	qty.
N9306850	Ultra Clean High Flow Connector Set - 1/4" Brass	6-pk.
N9306851	Ultra Clean High Flow Connector Set - 1/4" Stainless steel	6-pk.

Ultra Clean Base plate Flush Cap Replacement Set for LC/MS



Part No.	Description	qty.
N9306853	Ultra Clean High Flow Flush Cap Replacement Set	2-pk.



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