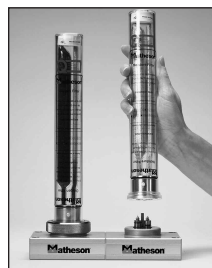




334 PUR-Gas™ Cartridge Purifier Systems



Easy to change cartridge. No tools required.

Description

Point-of-use, high-performance gas purifier system designed to provide superior contaminant reduction and utilizes removable purifier cartridges to produce 99.9999% purity. The basic system consists of a purifier cartridge installed on a compatible baseplate. The purifiers can be installed and replaced without interrupting the operating and analytical performance of the system. The metal and glass construction of the purifier cartridges eliminates diffusion of potential contaminants into the gas stream. During replacement of the purifier cartridges, check valves automatically close off the system to the atmosphere, further minimizing the introduction of contaminants.

Applications

- Point-of-use purification of all gases utilized with the operation of an FID equipped GC.
- Ideal for purification of carrier gases used with GC/MS, ECD, PID and NPD detectors.
- Removal of hydrocarbons and moisture from FID fuel gases.
- Purification of Nitrogen for LC/MS instruments.

Design Features/Components

- Easy installation enables "no tools required" purifier changeout.
- Multiple purifier baseplates allow customization of the system for specific applications.
- Replacement purifiers can be installed within seconds, minimizing instrument downtime.
- Check valves in baseplate design prevent diffusion of contaminants.
- Removal of hydrocarbons, oxygen and moisture can be performed with a single filter.
- Visual indicator on Moisture and Oxygen cartridges signals changeout to maintain uninterrupted service.

Baseplate Design & Selection Materials of Construction

	Baseplate	Purifier Cartridge
Body:	Aluminum (Anodized)	Internal Structure: Borosilicate Glass External Housing: Polycarbonate Sleeve
Fittings:	Standard -1/8" Brass Compression Optional - 1/4" Brass, 1/8" or 1/4" SS	—
Locking Ring:	Chrome Plated Aluminum	—
O-Rings:	Viton	—

Specifications

Maximum Operating Pressure:	150 psig
Maximum Flow Rate:	GCMS Systems: 3 L/min LCMS Systems: 20 L/min
Dimensions & Weight (L x W x H):	
1-position baseplate	3.125" x 3.56" x 1.12" (1.65 lbs)
2-position baseplate	3.125" x 7.87" x 1.12" (3.4 lbs)
3-position baseplate	3.125" x 11.81" x 1.12" (5 lbs)
Purifier Cartridge (new)	1.5" dia. x 10" H (0.60 lbs)
Purifier Cartridge Capacity:	(see table below)

Type of Purifier	Outlet Gas Quality	Usable for	Indicator Color Change	Capacity H ₂ O (gr)	O ₂ (ml)	Hydrocarbons
Moisture	> 6.0	Inert carrier gas, air, hydrogen	Brown to white	7.2		
Oxygen	> 6.0	Inert carrier gas	Green to grey		1000	
Hydrocarbon	> 6.0	Inert carrier gas, air, hydrogen	No indicator			Not specified
Combi (moisture/hydrocarbon)	> 6.0	Inert carrier gas, air, hydrogen	Brown to white	3.6		Not specified
Triple (moisture/oxygen/hydrocarbon)	> 6.0	Inert carrier gas	Brown to white Green to grey	1.8	500	Not specified

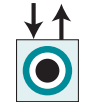
Purifier System Configurations (refer to illustration below)

The PUR-Gas™ Purifier Systems are available in several baseplate configurations to address a wide variety of analytical applications. The baseplates can be permanently mounted to lab bench surfaces and are available in 1, 2 or 3 purifier positions, allowing the end-user to custom design a gas purifier system for a specific application; or provide the same purifier in a multiple system arrangement to prevent uninterrupted service and changeout convenience.



Several baseplate designs allow multiple purifier configurations to customize a specific system for your application

Carrier Gas



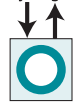
Triple Purifier
Moisture/Oxygen/
HydroCarb

Triple Kit for MS-ECD-NPD a.o.
Triple purifier on 1-position baseplate



1-position baseplate

Hydrogen



Combi Purifier
Moisture/HydroCarb

Air

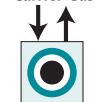


Burnergas Kit for FID
2x Combi purifier on 2-position baseplate



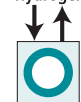
2-position baseplate

Carrier Gas



Triple Purifier
Moisture/Oxygen/
HydroCarb

Hydrogen

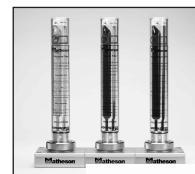


Combi Purifier
Moisture/HydroCarb

Air



Complete Purification Kit I for FID
High Capacity: Triple + 2x Combi purifier on 3-position baseplate



3-position

