

# AFS Purifiers I & II

The highest quality and safest gas purifier for GC applications

The Advanced Filter System from Chromatography Research Supplies offers a high-capacity and safe technology for purifying supply gases for Gas Chromatography applications. Because of its very high capacity, the AFS also offers a low overall cost of operation for supply gas purification. With reasonable care in use, the AFS will purify approximately 45 cylinders of gas at 99.995% purity, meaning that it will only have to be changed one-tenth as often as small-cartridge systems.

The AFS comes in two versions, the AFS I for carrier gas and ECD make-up gas, and the AFS II for FID supply gases.

## Features

- Very high capacity - for long life and lower operating cost
- Double-seal construction for safety, especially when using hydrogen gas
- Decrease baseline noise and increases GC and GC/MS sensitivity
- Reduce gas contaminants to low ppb levels



	AFS I	AFS II
<b>Recommended Maximum Flow:</b>	2 L/min	2 L/min
<b>Maximum Operating Pressure:</b>	200 psi / 14 bar	200 psi / 14 bar
<b>Oxygen Removal:</b>	850 cc at 1 bar < 5 ppb impurity	NA
<b>Water Removal:</b>	12 g < 20 ppb	8.8 g < 20 ppb
<b>Removal of Hydrocarbons, 5 carbons or more</b>	8 g < 5 ppb	13 g < 5 ppb
<b>Sensitivity of Oxygen Indicator<sup>1</sup>:</b>	< 1 ppm	NA
<b>Sensitivity of Water Indicator<sup>1</sup>:</b>	< 1 ppm	< 1 ppm
<b>Expected Life with 99.995% gas purity, 8400 L cylinders:</b>	45 cylinders	57 cylinders
<b>Applications:</b>	Carrier Gas (Helium, Hydrogen or Nitrogen)  ECD Make-up Gas ( Ar/Me or N <sub>2</sub> )	FID Gases (Dry Air, Hydrogen)

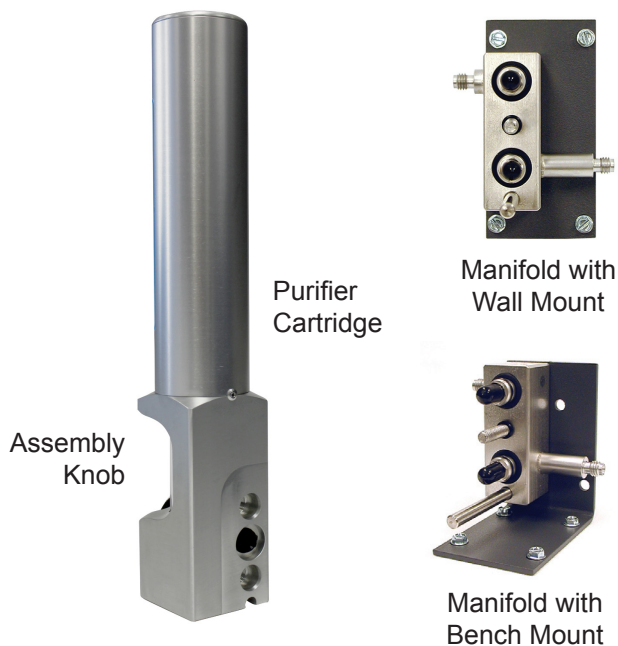


## Innovative Design

The two-part system includes a stainless steel manifold and a high capacity purifier cartridge.

The manifold mounts to a laboratory wall or bench with the brackets, and connects to the gas lines with stainless steel compression fittings.

The cartridge is easily installed and removed from the manifold with an assembly knob. When the cartridge is removed, check valves on the manifold close to prevent contaminants from entering the gas lines.



### AFS Purifier I

High-sensitivity water and oxygen indicators change color at 1 ppm impurity.



### AFS Purifier II

High-sensitivity water indicator change color at 1 ppm impurity.

Description	Item No.	Description	Item No.
AFS Purifier I, 1/8" Fittings	202900	AFS Purifier II, 1/8" Fittings	202903
AFS Purifier I, 1/4" Fittings	202902	AFS Purifier II, 1/4" Fittings	202904
AFS Purifier I Replacement Cartridge	202910	AFS Purifier II Replacement Cartridge	202950
AFS Purifier I Reconditioned Cartridge	202920	AFS Purifier II Reconditioned Cartridge	202930

