

PURIFIER



AFS II indicator, moisture is the blue indicator that changes to light brown when depleted.

Advanced Filter Systems (AFS I and AFS II) are high capacity gas purifiers that removes H₂O, hydrocarbons with (5 or more carbons) and/or O₂ from inert gases, hydrogen, and nitrogen to low ppb levels. Because of its features of high capacity and robust construction, the AFS is suitable for installations requiring multiple instruments. AFS features a double sealing system that serves as a safeguard against gas leaks, keeping hazardous gases from escaping into the laboratory.

The AFS system requires installation of a stainless steel manifold to the gas line (options are 1/4" or 1/8" standard compression fittings). Brackets and hardware are included to mount the manifold to the bench or wall. Once the manifold is installed the easily replaceable cartridge is attached to the manifold with a clamping knob.

RELATED OPTIONS

- 1/8" Advanced Filter System Manifold
- 1/4" Advanced Filter System Manifold

MATERIALS

Body	Stainless Steel
Purifier Cartridge	Stainless Steel inner tube, Borosilicate glass and polycarbonate plastic
Purifier external structure	Anodized aluminum
Fitting	Stainless Steel
O-Ring Seal	Fluoroelastomer

Applications

- Point of use purification Hydrogen FID gas used with the operation of GC/FID platforms
- Point of use purification of dry air FID gas used with the operation of GC/FID platforms
- AFS II – Point of use purification Argon ICP gas used with operation of inductively-coupled plasma
- Removal of H₂O and Hydrocarbons (5 or more carbons)

FEATURES

- Maximum inlet pressure 200 psig
- Maximum flow rate 2 SLPM
- Dual Sealing System (Safety)
- Assembled with Heavy Duty Components (Safety)
- Sensitive Visual Indicators (Hydrocarbons, O₂ & (H₂O) or (Hydrocarbons & H₂O)
- Simple Cartridge Replacement
- Stainless Steel Manifold Fittings
- 10 micron frits on cartridge
- 100% Helium leak tested
- Shipped filled with Helium

SPECIFICATIONS

Source Gases:

H₂, Ar, N₂, He, O₂ and dry Air

Maximum Operating Temperature:

35°C

Dimensions:

12 in x 12 in x 2 in

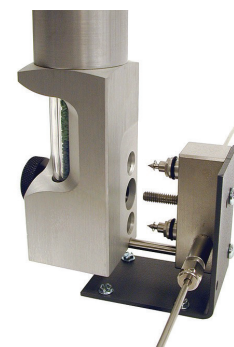
Approximate Weight:

6 lbs

ORDERING INFORMATION

PART NO.	ASF MODEL	CAPACITY	EFFICIENCY	FITTING
9030397	AFS I, 500CC	O ₂ : 850 cc H ₂ O*: 12 g HC**: 8 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb HC: < 5 ppb	1/8" Compression
9030398	AFS I, 500CC	O ₂ : 850 cc H ₂ O*: 12 g HC**: 8 g	O ₂ : < 5 ppb H ₂ O: < 20 ppb HC: < 5 ppb	1/4" Compression
9030399	AFS II, 500CC	H ₂ O*: 8.8 g HC**: 13 g	H ₂ O: < 20 ppb HC: < 5 ppb	1/8" Compression
9030400	AFS II, 500CC	H ₂ O*: 8.8 g HC**: 13 g	H ₂ O: < 20 ppb HC: < 5 ppb	1/4" Compression

* Water capacity based on an inlet moisture concentration of 200 ppm ** Hydrocarbons (C₅ and heavier); capacity based on 0.05 % pentane inlet concentration



AFS cartridge and bench mount manifold