



# The Latest Evolution in Bulk Gas Purification

**PureFit can save you money on the cost of your GC gases. In fact, a PureFit system can pay for itself in less than one year.**

High capacity oxygen, moisture and hydrocarbon traps tolerate high flow rates (up to 56 liters per minute)

Precision pressure gauges monitor downstream pressure and indicate leaky system components

Filter assembly plate can be quickly detached and returned to R&D for reconditioning of spent units

SSD (Stainless Steel Diaphragm) brand regulator maintains precise gas flow during operation

Treats up to 10,000 cubic feet to 99.99999% purity\*\*

Distribution module fuels as many as four instruments from a single source

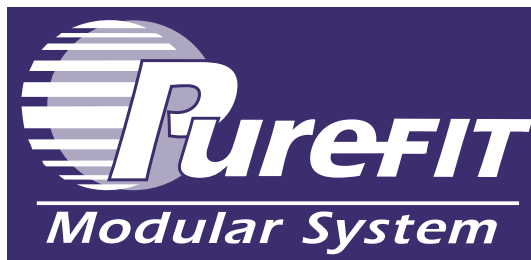
Less than 100 ppb total impurities at outlets\*\*

Utilizes Spectra-Link™, a highly inert, flexible, stainless steel gas line exclusively from R&D Separations

High integrity quick-connect check valves are helium leak-tested at 150 psi,  $1 \times 10^{-8}$  sccm



\*\*purity level based on O<sub>2</sub>, H<sub>2</sub>O, CO<sub>2</sub>, CO, and hydrocarbons



## **You pay for purification and save money in the process**

The PureFit Modular System is R&D Separations' latest innovation in laboratory gas purification. A "turnkey" gas control, purification and distribution package designed to reduce impurities in gases to low part per billion levels, and create an orderly and systematic solution to purifier installation.

PureFit utilizes ultra high purity, mega capacity purifiers for the effective removal of oxygen, water, hydrocarbons, carbon dioxide, carbon monoxide and other organics from compressed gas and gas generators commonly employed in gas chromatography.

The distribution module allows you to fuel up to four fully loaded instruments from a single gas source. The gas control/purification module is equipped with a single stage stainless steel diaphragm pressure regulator and all stainless delivery components, producing a truly inert flow path.

Purefit's "filter mounting plate" is equipped with four high capacity purifiers, each unique to a specific contaminant group. The mounting plate is connected to the gas control and gas distribution sections of the panel by means of high integrity, all stainless steel quick connect shut off valves. Simply disconnect the inlet and outlet shutoff valve assemblies (double end shutoff valves isolate upstream and downstream plumbing from contaminate introduction during replacement), and return only the "filter mounting plate" to R&D Separations for regeneration.

Available with ¼" Swagelok inlet/outlet connections.

**PureFit is the right fit for the purification of all your laboratory gases!**  
Nitrogen  
Hydrogen  
Argon/Methane  
Argon  
Helium

**See Gas Purity Chart on Back Page**

# Savings With The PureFit Modular System

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## Cost of Various Grades of Helium\*

Gas Grade	Purity Specification	Cylinder Size (Ft <sup>3</sup> )	Cylinder Retail
High Purity (grade 4.5)	99.995%	300	\$72
Ultra High Purity (grade 5.0)	99.999%	300	\$172
Chromatographic (grade 5.5)	99.9995%	300	\$354

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## Cost of PureFit Modular System

The PureFit Modular System includes:

- ▶ Pressure regulator and trap manifold
- ▶ Spectra-Link stainless steel tubing with High integrity quick connects
- ▶ 4 highcapacity maga filters
- ▶ 4-station gas distribution module

**Fact:**

Complete PureFit system will purify 10,000 cubic feet of helium gas (grade 4.5) to a chromatographic quality product (grade 5.5) or BETTER.



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## Compare\*

- ▶ Cost of 10,000 cubic feet **chromatography grade helium** vs.
- ▶ Cost of 10,000 cubic feet **high purity helium** and
- ▶ Cost of **PureFit system** to achieve a chromatography quality helium gas

### First 10,000 cubic feet of helium

#### Purchase of Chromatography Grade Gas

33 cylinders x \$354 (grade 5.5) = ..... \$11,682

#### PureFit Method

33 cylinders x \$72 (grade 4.5) = (\$2,376.00) + \$3,495 = ..... \$5,871

### Next 10,000 cubic feet of chromatographic quality helium:

33 cylinders x \$354 (grade 5.5) = ..... \$11,682

33 cylinders x grade 4.5 helium with PureFit System = ..... \$2876  
(Cost of Purifier Panel Regeneration)

### \$ Invested to provide 20,000 cubic feet of chromatographic grade helium

66 cylinders high purity helium treated with **PureFit Modular System** .... **\$8,747**

66 cylinders chromatography grade helium ..... \$23,364

**SAVINGS USING THE PUREFIT METHOD: \$14,617**

\*Comparison is based on helium gas source. PureFit is compatible with most gases employed in laboratory analysis. For cost comparisons based on other selected gases contact J&W at 800-552-0413 or visit our web site at [www.jandw.com/purefit.htm](http://www.jandw.com/purefit.htm).

# Ordering Information

## J&W Direct Order

Tel: 800-223-3424  
Fax: 916-985-1101

## J&W Scientific Inc. USA

91 Blue Ravine Road  
Folsom, CA 95630-4714  
Tel: 916-985-7888  
Fax: 916-985-1101

## J&W Technical Support USA

Tel: 800-552-0413  
Tel: 916-731-3316 Emergency  
24-Hour Technical Support

## J&W Technical Support Europe

Tel: 49 231 80 21 72  
Fax: 49 231 80 37 80

## J&W Scientific Products GmbH

Venloer Strasse 16, D-50672 Köln  
Tel: 49 221 952 70-0  
Fax: 49 221 952 70-99

[www.rdseparations.com](http://www.rdseparations.com)



## Buying from R&D is Never a Risk

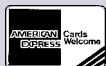
R&D Separations is committed to providing you with the highest product quality and timely delivery.

We promise that the product you purchase will be free of defects in materials and workmanship, or your money back. Should any R&D product fail to live up to your expectations, just send it back for a full refund or exchange. Your complete satisfaction is our goal.

### Trademarks:

Drierite is a registered trademark of W.A. Hammond. Swagelok is a registered trademark of Crawford Fitting Company. PureFit and Spectra-Link are registered trademarks of R&D Separations.

Prices are suggested retail price, subject to change without notice.



MasterCard, Visa and American Express Cards

Accepted

\*Regeneration service requires the prepaid return of your used trap to R&D.

## Three Grades of Helium\* Gas

### High Purity Grade 4.5 (99.995% purity)

Contaminant	Level
Oxygen	< 5.0 ppm
Water	< 5.0 ppm
Hydrocarbons	< 1.0 ppm
CO <sub>2</sub>	< 1.0 ppm
CO	< 1.0 ppm

\*Comparison is based on helium gas source. PureFit is compatible with most gases employed in laboratory analysis. For cost comparisons based on other selected gases contact J&W at 800-552-0413 or visit our web site at [www.jandw.com/purefit.htm](http://www.jandw.com/purefit.htm).

### Ultra High Purity Grade 5.0 (99.999% purity)

Contaminant	Level
Oxygen	< 2.0 ppm
Water	< 1.0 ppm
Hydrocarbons	< 0.5 ppm
CO <sub>2</sub>	< 0.2 ppm
CO	< 0.2 ppm

### Chromatographic Grade 5.5 (99.9995% purity)

Contaminant	Level
Oxygen	< 0.2 ppm
Water	< 0.2 ppm
Hydrocarbons	< 0.1 ppm
CO <sub>2</sub>	< 0.1 ppm
CO	< 0.5 ppm

### PureFit Modular System (99.9999% purity)

*With the PureFit Modular System, reductions to these levels can be achieved, regardless of the purity level of your helium source*

Contaminant	Level
Oxygen	< 0.002 ppm
Water	< 0.020 ppm
Hydrocarbons	< 0.030 ppm
CO <sub>2</sub>	< 0.020 ppm
CO	< 0.020 ppm



### PureFit Modular Systems Order Guide

Description	Part Number (P/N)	Price (\$)
<b>PureFit Modular System</b>	<b>PMS-12</b>	<b>3,495</b>
Distribution Module Only	PMS-2	1,300
Regeneration of PureFit Filtration Components	PMS-R	500
Backup Set of Filters with Mounting Plate	PMS-SPF	995



HIGH PERFORMANCE FILTRATION PRODUCTS  
91 Blue Ravine Folsom, CA 95630  
916-985-7888 or 800-223-3424  
[www.rdseparations.com](http://www.rdseparations.com)

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