

CRS Reconditioned AFS II Cartridge

202930

Instructions for Return and Operation Guide





Document Number 995237_RevB

Safety Notices

WARNINGS

WARNING notices must be read carefully and understood. Improper use of this product can cause harm or death to personnel and damage to property!

Recycling



For recycling contact your local CRS Sales Office or Distributor.



2

Warnings



Wear safety glasses.



Leak test all fittings when using hazardous or flammable gases.

Do not use above 13.8 bar (200 psi).

Do not open filter cartridge, even after use!

Special precautions might be required when using hydrogen. Consult local regulations and your company's safety procedures.

The Advanced Filter System II is intended to remove 50 ppm or less of water or hydrocarbons (C5 and above) from air, helium and other inert gases, nitrogen or hydrogen at flow rates of 2 L/minute or less.

Limits: Temperature 15°C to 35°C

Pressure 0.75 to 13.8 bar

Gas Supply < 50 ppm H₂O and Hydrocarbons

Flow Rate < 2 L/min



Operation Manual

This operation manual applies to the following products

 CRS Advanced Filter System II, Reconditioned Cartridge Item No. 202930

Setup	5
Operation and Maintenance	7
Preparing for Return Shipment	8
Troubleshooting	9



Reconditioned Cartridge Setup

Please read through this entire manual to familiarize yourself with the procedures for AFS II Cartridge Replacement and Spent Cartridge Return before beginning setup. Use the same degree of care as you would with any precision instrument.

- 1. Remove the Reconditioned AFS II Cartridge.
- 2. Inspect the parts. If there is any visible damage contact your supplier immediately.



Procedure Overview

CRS Reconditioned AFS II Cartridge

- Before any return a Return Authorization must be obtained from CRS or your CRS
 Distributor. Filters that have been exposed to toxic or hazardous materials cannot be
 returned and must be disposed of as hazardous goods in compliance with local
 regulations.
- 2. Replace your spent AFS Cartridge with the Reconditioned Cartridge supplied.
- 3. Obtain a Return Material Authorization from your supplier or CRS. Some suppliers may include the RMA with the packing material.
- 4. Prepare the spent AFS Cartridge for shipment (see page 8).
- 5. Return the spent AFS Cartridge in the inner box provided (See Page 8).



Mounting the Filter Cartridge

The cartridge is protected in shipping by two port plugs with O-ring seals. In addition, two internal aluminum cups limit the exposure of adsorbent during assembly, until they are pierced as the cartridge is mounted. Exposure to air of several minutes during filter installation or change will not damage the adsorbent.

- 1. Remove the two port plugs. Save these plugs in case the cartridge is to be returned in an exchange after the cartridge has been consumed.
- Rest the cartridge on the bottom support rod of the manifold, and slide it forward until the two ports of the manifold slide into the sockets of the cartridge. Be careful to point the check valve needles into the port holes so that they do not scratch the back of the filter.
- 3. Push the cartridge forward, engage the clamping screw and tighten thoroughly.
- 4. Leak check the fittings.

If you are using hydrogen or hazardous gas additional special procedures may be called for. Consult your company's safety procedures.

5. The filter cartridge is shipped full of helium, but the gas lines should still be purged with a gas flow for at least several hours after the initial installation. Moisture levels downstream of the instrument may continue to improve for several days.





CRS Reconditioned AFS II Cartridge

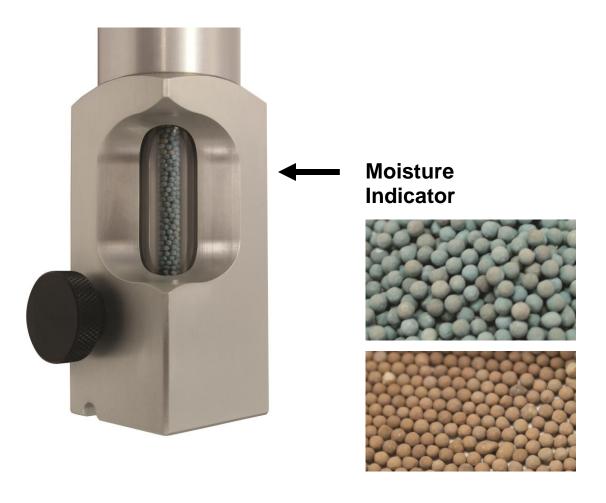


WARNING



Operation and Maintenance

1. The Advanced Filter System II has one visual indicators for moisture. When the blue indicator changes to light brown, indicating water contamination, the filter cartridge should be changed.



CRS Reconditioned AFS II Cartridge

Preparing the spent cartridge for Return Shipment

WARNING

Before any return a Return Authorization must be obtained from CRS or your CRS Distributor. Filters that have been exposed to toxic or hazardous materials cannot be returned and must be disposed of as hazardous goods in compliance with local regulations.

Never open the cartridge or remove the contents!

Packaging

The AFS Replacement Cartridge is shipped with an outer box that can be discarded.
The insert and inner AFS Box should be used to return the spent filter cartridge as
shown below.





Put the spent filter in the inner sleeve of the box after installing port plugs.



Troubleshooting

Condition	Possible Cause	Recommendation
Leak	O-rings between cartridge and manifold are not leak tight.	Remove and check the manifold O-rings for dirt or scratches. Inspect the sealing surfaces on the cartridge and manifold for scratches. Replace if necessary.
Indicator changes quickly.	Leak in gas line.	Find and fix the leak.
	Contaminated Gas	Verify that the source meets specifications as listed under "Limits" on page 5.
		If the gas source is supplying other filters as well, check the condition of these filters. Otherwise check specification and procedures for verifying gas quality.

Support and Repair

If the AFS II Cartridge is still in the warranty period, please contact your dealer for support. If the warranty period has expired, please visit www.ChromRes.com for information about how to purchase a replacement or regenerated cartridge.





Trajan Scientific Americas Inc 2601 Technology Drive, Louisville, KY 40299, USA Tel: 502 491 6300

Fax: 502 491 3390 usa@trajanscimed.com

© Trajan Scientific Americas Inc 09/2022 995237 _RevB



10