

# Send in the Replacement



## **ASTG 13000 Series Scrubber**

Replacement for Spectra 5100 Series Scrubbers

Our 13000 Series Scrubber Canisters are of slightly larger diameter (4.5" vs 4.0") than the Spectra Gases® / Linde® 5100 series scrubbers. The canister has a lower height to accommodate the same volume of media as the Spectra-Gas® / Linde® scrubbers. This allows the optional secondary scrubber to be installed in the same assembly while still meeting the same overall fitting-to-fitting dimension. If the secondary scrubber is not required for a specific application, or an external unit is preferred, a spool piece will be inserted to maintain the same fitting-to-fitting dimension.

1/4", 3/8" and 1/2" Swagelok Compression fittings or 1/4" or 1/2" male or female VCR connections can be supplied on the 13000 Series scrubbers. The canister itself is constructed with a 3/4" FNPT outlet and a 1/2" FNPT inlet. This allows a variety of end connection choices while holding the overall length from fitting-to-fitting the same.

### **Design Features:**

- Dual scrubber elements available
- Scrubber media specifically formulated for Laser Gases

# Messer 13000 Series Scrubbers

## Scubber Media:

### Fluorine Laser Gas Mixes

Laser gas mixtures containing Fluorine are reacted on Alumina to form Aluminum Fluoride. A secondary adsorber filled with Calcium Sulphate is used to capture any HF released as a by-product of the Alumina to Aluminum Fluoride reaction.

### Hydrochloric Acid Laser Gas Mixes

Laser gas mixtures containing HCl are adsorbed on Activated Carbon impregnated with Potassium Iodide, or a bed consisting of 2/3<sup>rd</sup> Activated Carbon and 1/3<sup>rd</sup> Granular Potassium Iodide. A secondary adsorber filled with Calcium Sulfate is used to capture any trace Chlorides and Bromides that may be released during adsorption.



## Gas Management Solutions

### REPLACEMENT SCRUBBER CANISTER

1/4", 3/8" and 1/2" Swaglock Compression fittings or 1/4" or 1/2" male or female VCR connections can be supplied

#### Messer Scrubber Canister Number Selector

(Model Number Sequence Selector – A–B–C–D)

A	B	C	D
<b>Scrubber Series</b>	<b>Media Options:</b>	<b>Inlet Connection:</b>	<b>Outlet Connection:</b>
50 – 50000 Series	1 – Activated Alumina – no secondary Scrubber	1 – 1/4" Swagelok	1 – 1/4" Swagelok
13 – 13000 Series	2 – Activated Alumina – with secondary Scrubber	2 – 3/8" Swagelok	2 – 3/8" Swagelok
	3 – KI Impregnated Activated Carbon – no secondary Scrubber	3 – 1/2" Swagelok	3 – 1/2" Swagelok
	4 – KI Impregnated Activated Carbon – with secondary Scrubber	4 – 1/4" MVCR	4 – 1/4" MVCR
	5 – 2/3 Activated Carbon 1/3 Granular KI – no secondary Scrubber	5 – 1/4" FVCR	5 – 1/4" FVCR
	6 – 2/3 Activated Carbon 1/3 Granular KI – with secondary Scrubber	6 – 1/2" MVCR	6 – 1/2" MVCR
		7 – 1/2" FVCR	7 – 1/2" FVCR

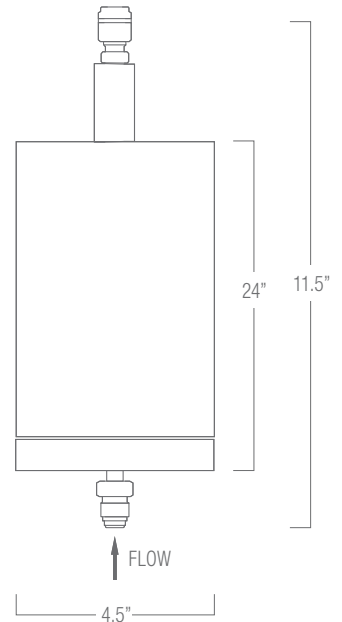
### Contact Messer for additional information

regarding our 13000 Series Scrubber Canisters about other Messer products and specialty gas services.



#### Messer Americas

200 Somerset Corporate Blvd  
Suite 7000  
Bridgewater, NJ 08807  
Phone: 1-833-763-7737  
electronics.cs@messer-us.com  
www.messer-us.com



Part of the Messer World