

# Gas Management Solutions

GAS SCRUBBER & PURIFIER

**MESSER**   
Gases for Life

# Let's Clear the Air



## Messer Excimer Laser Gas Scrubber & Purifiers

incorporate two alternative mounting arrangements to meet customer specific needs. The base unit incorporates a 1,000 cfm blower and scrubber element in an aluminum frame. These scrubbers all incorporate scrubber elements which are required to be replaced annually or following a toxic gas release. Over time, exposure to the air does degrade the active scrubber media – hence the requirement for period change outs. Change-outs can be accomplished without tools by opening the front access cover. It is held in position with two spring loaded catches and lower retaining pins. The scrubber element can then be withdrawn and a new one slid into place. The active scrubber media is tailored specifically to maximize absorption of the acid gases typically found in Excimer Laser gases – Fluorine (Hydrofluoric Acid when exposed to air) and Hydrochloric Acid.

These scrubber systems are drop-in replacement for Spectra Gases® / Linde® SpectraPure F5300 and F4007 Room and Gas Cabinet Scrubber Systems.

Additional options are available to further tailor the system to a customer's specific requirement.

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## Design Features:

- Available in two mounting configurations
- No tools required for scrubber element changeouts
- Solid, durable construction
- Pre-engineered to accept Messer's GMSS and TGD



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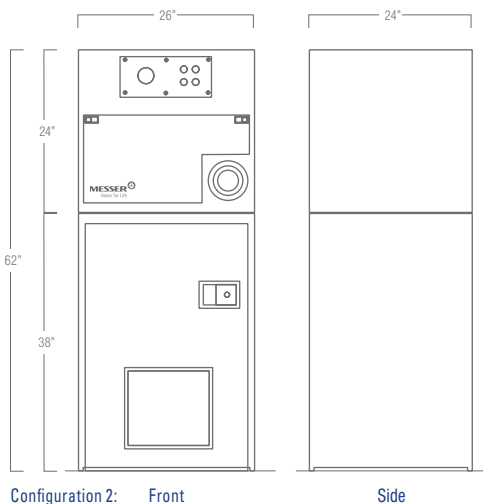
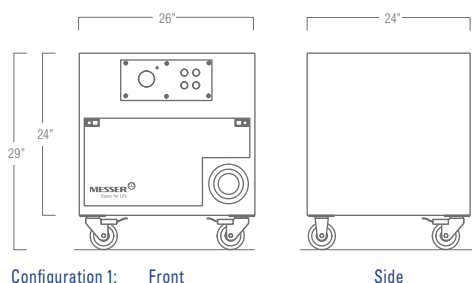
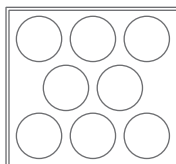
## Messer Excimer Laser Gas Scrubber & Purifiers

### Configuration 1: Room Scrubber

Air is brought in at the bottom and passes through the filter/scrubber assembly by a circulation blower that exhausts on top of the cabinet back to the room. The room scrubber has two casters with brakes on the front corners and two rigid wheels at the back to allow easy movement from room-to-room. The optional Toxic Gas Detector and Toxic Gas Safety System is integrated into the system to allow the system to be fully functional as soon as the power cable is plugged in at the new location.

### Configuration 2: Room Scrubber with Gas Cylinder Storage Cabinet

In this application the Room Scrubber is integrated into a ventilated gas cylinder cabinet. This cabinet can store up to eight #3 gas cylinders.



### Options:

The base system runs the fan continuously with no Toxic Gas Detectors (TGD's). The scrubber element is changed out periodically. The system is designed to integrate a variation of Messer's Toxic Gas Safety System (TGSS) with quick-change TGD system. This provides an indication that a release has occurred. (see separate brochures on Messer's TGSS and TGD's for more information). A low noise and power option adds a small fan and air filter to provide a continuous representative air sample to the TGD. When the TGD detects that a release has occurred, the main blower is started to scrub the air in the room or gas cabinet. The power saving is 13 Amps at 120V. The noise reduction between the quiet 47 cfm, 25 dBA sample fan, and the 1,000 cfm main blower is substantial. Depending on the cost of power, the power savings should pay for this option in 12-18 months.

Please contact Messer for additional information regarding our Scrubber & Purifiers  
For an overview of Messer's line of specialty gas products and services,  
please visit our website at [www.messer-us.com](http://www.messer-us.com)



### Messer Americas

200 Somerset Corporate Blvd  
Suite 7000  
Bridgewater, NJ 08807  
Phone: 1-833-763-7737  
[electronics.cs@meser-us.com](mailto:electronics.cs@meser-us.com)  
[www.messer-us.com](http://www.messer-us.com)



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