



## Hydrogen Chloride Mixtures

### Shipping Information

For the mixtures listed below the shipping classifications are dependent on the concentration.

### Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1Q	330	2,000	13,790	140	64
3Q	330	2,000	13,790	35	16

Gas Mixture Specifications	Cylinder Size	Contents		Equipment Recommendations		Page No.
		US	Metric		Model No.	
<b>Hydrogen Chloride in Helium*</b>	1Q	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	Single Stage Reg.	Series 3210-330	301
Hydrogen Chloride 1-10%	3Q	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	Single Stage Reg.	Series 3610A-330	316
Helium Balance				Cross Purge Assembly	4775-330	422
<b>Hydrogen, Hydrogen Chloride* in Helium</b>	1Q	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	Single Stage Reg.	Series 3210-330	301
Hydrogen 1%	3Q	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	Single Stage Reg.	Series 3610A-330	316
Hydrogen Chloride 5%				Cross Purge Assembly	4775-330	422
Helium Balance						
<b>Hydrogen, Hydrogen Chloride* in Neon</b>	1Q	202 ft <sup>3</sup>	5.72 m <sup>3</sup>	Single Stage Reg.	Series 3210-330	301
Hydrogen 1%	3Q	34 ft <sup>3</sup>	0.96 m <sup>3</sup>	Single Stage Reg.	Series 3610A-330	316
Hydrogen Chloride 5%				Cross Purge Assembly	4775-330	422
Neon Balance						

\*Available Grades: Primary, Certified Plus, Certified. Specify Grade.

## Models 4774 and 4775 Cross Purge Assemblies



Model 4775 Cross Purge Assembly shown with regulator attached; please order regulator separately

The 4775-CGA Cross Purge assembly is connected between the Laser Mixture and Cylinder Regulator. By purging the connection with helium, atmospheric, absorbed surface water, plus corrosive gas residual are removed before opening or removing laser mixtures: Prevent corrosion and don't compromise the system purity.

### Design Features

- Eliminates the escape of hazardous gases when changing cylinders
- Reduces danger of contamination from atmospheric moisture and oxygen
- Minimizes the amount of gas lost during cylinder changes
- All stainless steel or corrosion resistant construction
- Rated for 3000 psig (20,700 kPa)
- Packless valves throughout

### Ordering Information

Model Number	Material
4774-CGA	All 316 Stainless Steel
4775-CGA	Aluminum-Silicon-Bronze with 316 Stainless Steel Block

Shipping Weight: 3 lbs  
 Please order Matheson Technical Bulletins TB-141 and TB-147 for additional information.

### Options

Model Number	Description
MSP-0012-XX	Helium Leak Rate Certification (2 x 10 <sup>-8</sup> scc/min for 5 minutes)

NOTE: Helium leak test can only be performed on cross purge assembly itself on a new regulator with the cross purge assembly factory installed (order regulator with "no inlet" designation).