

Mixtures: Hydrogen Chloride Excimer Lasers

DESCRIPTION

Excimer lasers are multi-gas lasers. Output wavelength is a function of the rare gas/halogen combination. Excimer is the name of the rare gas / halide molecule. There are two wavelengths (spectral lines) that can be generated from HCl mixtures.

Description	Rare Gas	Halogen Gas	Buffer Gas
KrCl (222 nm)	Krypton	HCl / He or HCl / Ne	He and/or Ne
XeCl (308 nm)	Xenon	HCl / He or HCl / Ne	He and/or Ne

Product Description	Cylinder Size*	Volume Liters	Pressure Psig/Bar
Hydrogen Chloride Premixes			
KrCl (222 nm) XeCl (308 nm) Balance Gas either Helium and/or Neon	1	7500	2400/167
	2	6000	2150/149
	3	2000	1925/134
	4	1000	2000/139
	5	300	1625/113
Hydrogen Chloride Standard Gas Mixtures			
≤ 5 % HCl Helium Balance	3	1133	1000 / 70
	4	566	
	5	198	
≤ 5 % HCl Neon Balance	3	1133	1000 / 70
	4	566	
	5	198	
≤ 5 % HCl 1% Hydrogen Helium Balance	3	1133	1000 / 70
	4	566	
	5	198	
≤ 5 % HCl 1% Hydrogen Neon Balance	3	1133	1000 / 70
	4	566	
	5	198	

* Additional cylinder sizes are available upon request.

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CYLINDER VALVES AVAILABLE	
USA	CGA 330
Europe	DIN 8 DIN 14
Japan	JIS – Halogen mixtures
Other Countries	For customers in countries that require cylinder valve connections other than CGA, DIN, or JIS please contact Spectra Gases so we can accommodate your request.

OTHER CYLINDER SIZES AVAILABLE	
Europe	E-10 E-20 E-50
	These are European approved cylinders with 10, 20, and 50 liters of internal water volume respectively.