

Tracer Gas Analysis Setup and Capability

Thin 4 micron window replaces with 2 mil plastic window to protect window from rupture

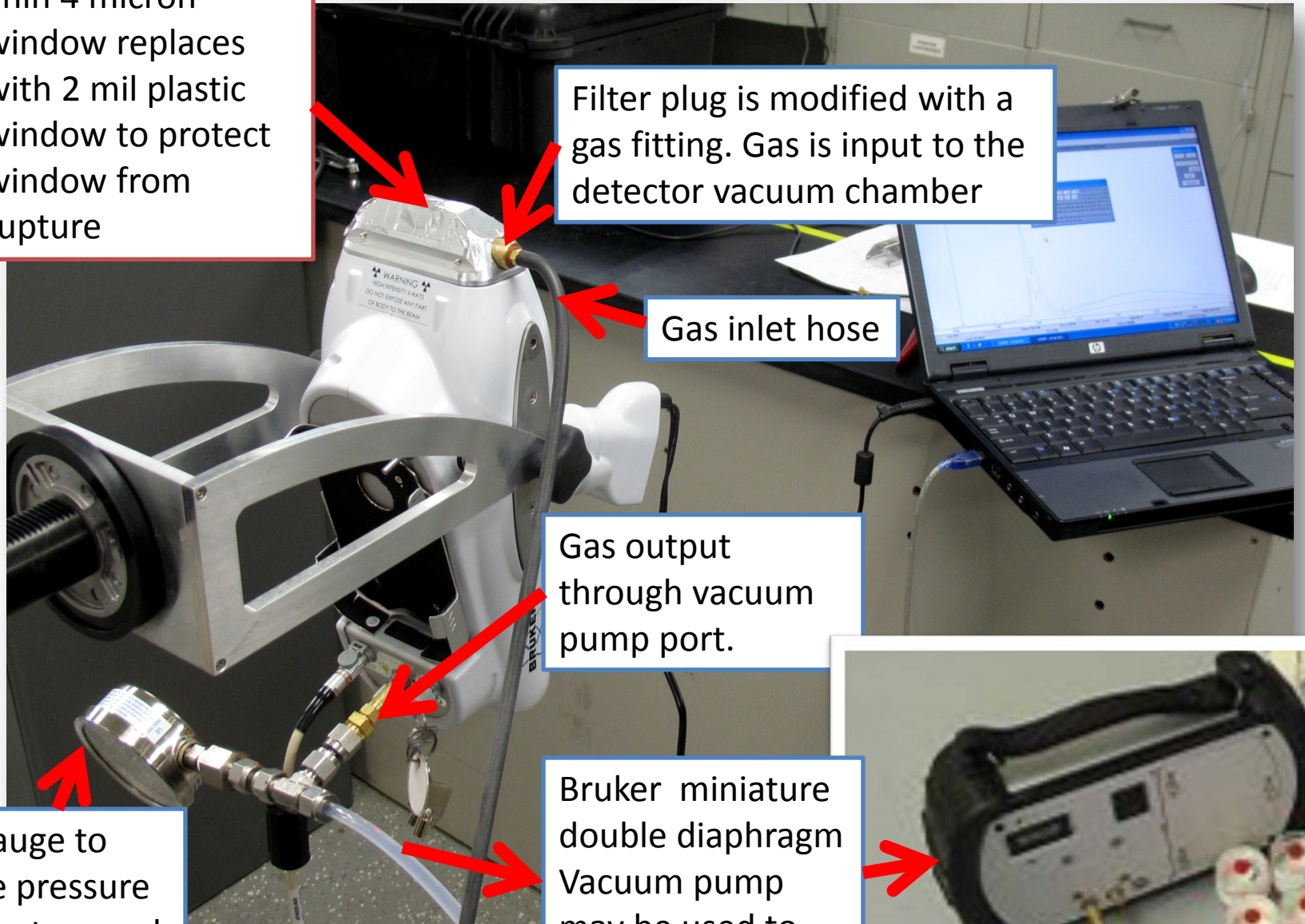
Filter plug is modified with a gas fitting. Gas is input to the detector vacuum chamber

Gas inlet hose

Gas output through vacuum pump port.

Gas gauge to assure pressure does not exceed 25 psig.

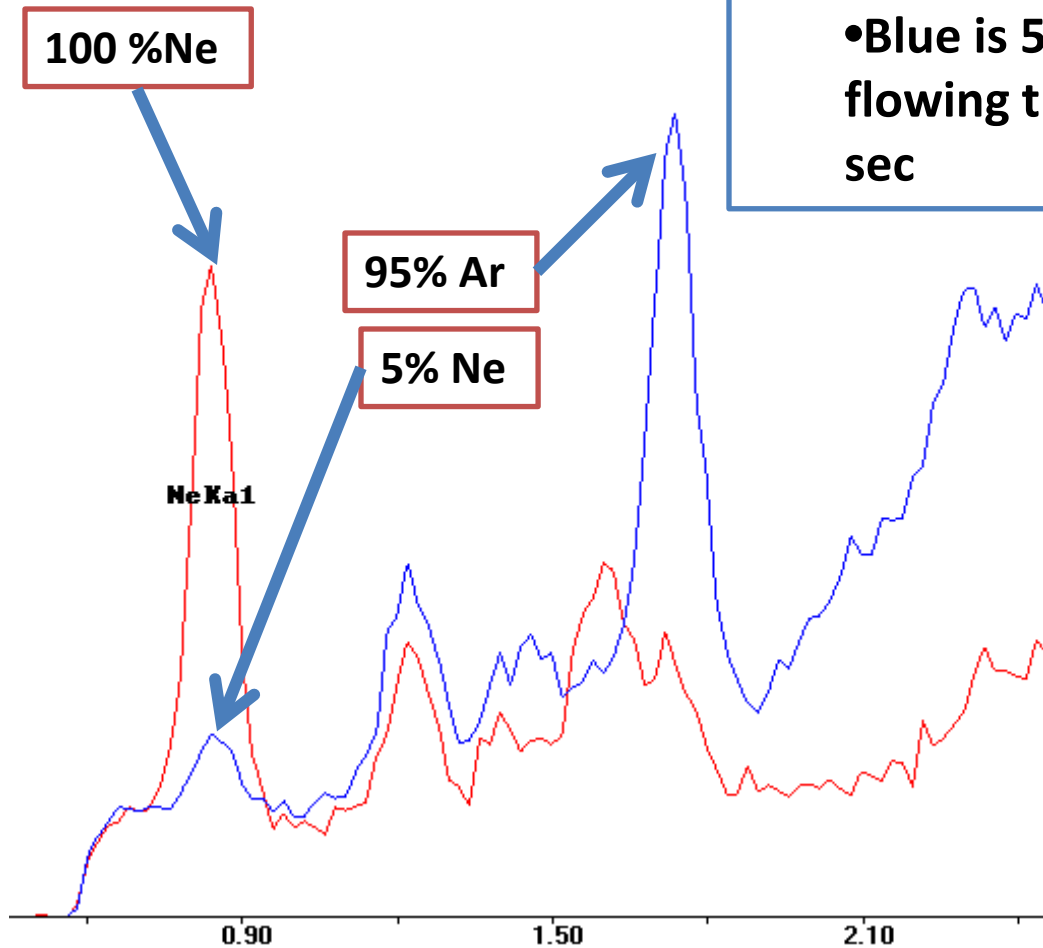
Bruker miniature double diaphragm Vacuum pump may be used to circulate gasses



This is an analysis of Neon gas mixtures

:

- Red is pure Neon flowing thru the unit at 1 liter per sec
- Blue is 5% Neon with 95% Argon flowing thru the unit at 1 liter per sec



This is an analysis of
50% Ar/ 50% Kr gas
mixture :

Select Elements

H Ka1 - 1 K L M

Clear All Add Z- Z+

H	He																		
Li	Be																		
Na	Mg																		
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn		
Fr	Ra	Ac																	
		Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu				
		Th	Pa	U	Np	Pu	Am	Cm											

OK

Path OK

Path OK

Name ▲

- unknown aluminum b
- unknown aluminum a
- unknown aluminum
- Ne 50 cc 40kV no filt
- Ne 50 cc 10kV no filt
- N2 Ar o5l Kr 50 cc
- N2 Kr 50 cc 1slpm
- He 1 slpm Ne 50 cc 4
- He 1 slpm Ne 50 cc 1
- He Kr 50 cc 1slpm

