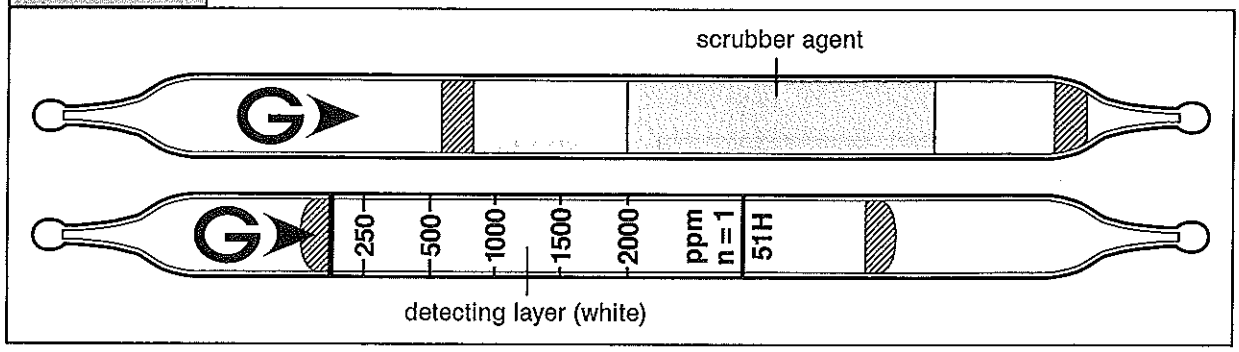
Pyrotube

Fluorochlorocarbons No.51H



Performance

Measuring range	250 to 2000 ppm	2000 to 6000 ppm
Number of pump strokes	1 (100 ml)	1/2 (50 ml)
Correction factor	1	3
Sampling time	1.5 min	45 sec

Detecting limit : 50 ppm (1 pump stroke)
Colour change : White → Reddish orange
Corrections for temperature & humidity : Unnecessary
Shelf life : 3 years

Reaction principle

Pyrotec : Fluorochlorocarbons $\xrightarrow{\text{(Pyrolyzing)}}$ Cl_2
Pyrotube : Cl_2 + o-Tolidine → Reddish orange product

Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Chlorine		+	Reddish orange
Halogenated hydrocarbons		+	
Nitrogen dioxide		+	

Substances measurable with this Pyrotube

Substance	n	Correction factor	Measuring range (ppm)
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	1/2	3.0	2000-6000
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	1	1.0	250-2000
Chlorodifluoromethane (R22)	1/2	12.0	8000-24000
Chlorodifluoromethane (R22)	1	4.0	1000-8000
Dichlorodifluoromethane (R12)	1/2	3.9	2600-7800
Dichlorodifluoromethane (R12)	1	1.3	325-2600
1,2-Dichloro-1,1,2,2-tetrafluoroethane (R114)	1/2	5.7	3800-11400
1,2-Dichloro-1,1,2,2-tetrafluoroethane (R114)	1	1.9	475-3800
Halothane	1	3.2	800-6400
1,1,2,2-Tetrachloro-1,2-difluoroethane (R112)	1/2	1.5	1000-3000
1,1,2,2-Tetrachloro-1,2-difluoroethane (R112)	1	0.5	125-1000
Trichlorofluoromethane (R11)	1/2	3.3	2200-6600
Trichlorofluoromethane (R11)	1	1.1	275-2200
1,1,1-Trichloro-2,2,2-trifluoroethane (R113a)	1/2	2.4	1600-4800
1,1,1-Trichloro-2,2,2-trifluoroethane (R113a)	1	0.8	200-1600