

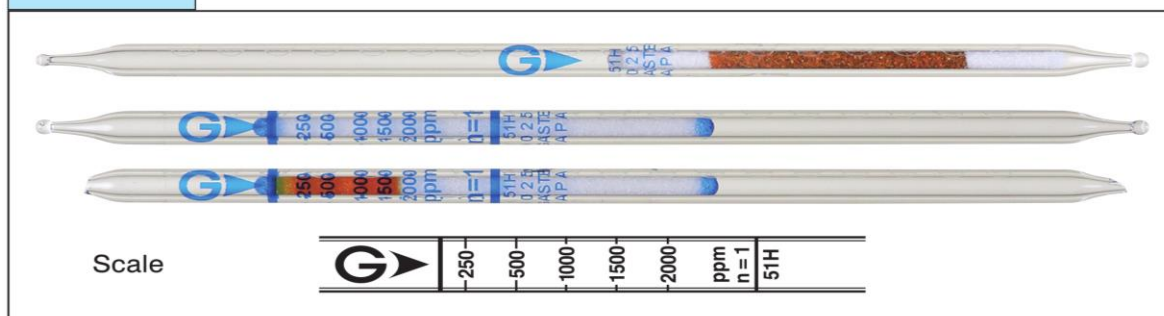


Fluorochlorocarbons

Part No.:51H

Pyrotube

Fluorochlorocarbons No.51H



Performance

This detector tube is calibrated with Freon 113.

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	
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used	
	Relative humidity 0 to 90 % correction not used	
Tube quantity and number of tests per box :	10 tubes for 5 tests	
Shelf life :	36 months	

Reaction principle

Pyrotec : Fluorochlorocarbons (Pyrolyzing) $\rightarrow$ Cl_2
 Pyrotube : $\text{Cl}_2 + o\text{-Tolidine} \rightarrow$ Reddish orange product

Possible coexisting substances and their interferences

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