



GASTEC

Pyrotec Pyroliser



Fluorochlorocarbons (CFC) have been linked to ozone depletion in the upper atmosphere, yet they have been used in a wide assortment of industries because of excellent properties such as incombustibility, chemical stability, and insulation capability. Conventionally, measurements of these gases have required expensive equipment and skilled specialists.

The **Gastec Pyrotec System** has made this monitoring easy and economical by combining detector tube technology and a portable pyrolyser.

Measurement Principle

When the handle of the Gas Sampling Pump is pulled, fluorochlorocarbons or halogenated hydrocarbons in the sample will first pass through the pretreatment tube where interfering organic vapours are removed and then enter into the Pyrotec where they are thermally decomposed into substances that can be easily measured by the Pyrotube, and finally enter into the Pyrotube where the by-products of the pyrolysis react chemically with the reagent.

Technical Specification

GENERAL

- Battery life: Approx. 2 hours (for continuous use)
- Filament life: For 1000 measurements in case of trichlorotrifluoroethane (R113) (6000 ppm)
- Warm-up time: 2 minutes
- Ambient temperature: 0°C to 40°C
- Power supply: AA size battery × 4
- Dimensions: diameter × length: 68mm × 150mm
- Weight (including 4 batteries): 245g

“The GASTEC Pyroliser system is an economical method of detecting and analysing fluorochlorocarbon gases”

KEY BENEFITS

- Fast, accurate, and easy measurements on the spot
- A variety of applications including measurements at the gas generating sources to confirm gas concentrations or at workplaces to detect gas leakage

Name of target gas	Tube No.	Measuring range (ppm)	Calibration range (ppm)	Shelf life (years)	MPC [maximum permissible concentration] (ppm)	Reference
Acetontrite	52*	3-180	-	3	20(US)	-
Methyl chloride	51* 51L*	12-480 1.6-86	-	3 3	50(US) 50(US)	5 x 5 x
Methylene chloride	51L*	1-54	-	3	50(E) 50(US)	-
Nitro ethane	52*	4-240	-	3	100(US)	5 x
Nitrogen dioxide	52*	0.5-30	-	3	3(US)	-
1-Nitropropane	52*	4.2-252	-	3	25(US)	-
2-Nitropropane	52*	3.7-222	-	3	10(US)	-
Nitromethane	52*	5-300	-	3	20(US)	-
Dimethyl Disulphide	53*	0.3-6	-	3	0.5(US)	5 x
Fluorocarbon 11	51H* 51* 51L*	275-6600 8-320 0.8-43	-	2 3 3	- - -	5 x 5 x 5 x
Fluorocarbon 12	51H* 51* 51L*	325-7800 11-440 1.8-97	-	3 3 3	1000(US) - -	5 x 5 x 5 x
Fluorocarbon 22	51H* 51* 51L*	1000-24000 25-1000 2.5-135	-	3 3 3	1000(US) - -	5 x 5 x 5 x
Fluorocarbon 112	51H* 51* 51L*	125-3000 7-280 1-54	-	3 3 3	50(US) - -	5 x 5 x 5 x
Fluorocarbon 113	51H 51 51L	250-6000 10-400 1-54	250-2000 0-400 1-20	3 3 3	1000(US) - -	5 x 5 x 5 x
Fluorocarbon 113a	51H* 51* 51L*	125-4800 10-400 0.8-43	-	3 3 3	- - -	5 x 5 x 5 x
Fluorocarbon 114	51H* 51* 51L*	475-11400 20-800 1.8-97	-	3 3 3	1000(US) - -	5 x 5 x 5 x
Fluorocarbon 123	51* 51L*	14-560 1.4-28	-	3 3	- -	5 x 5 x
Fluorocarbon 124	51*	45-1800	-	3	-	5 x
Fluorocarbon 141b	51* 51L*	10-400 1.1-22	-	3 3	- -	5 x 5 x
Fluorocarbon 225			-		-	-
Fluorocarbon 225Ca +	51*	20-800		3	-	5 x
Fluorocarbon 225Cb 1:1	51L*	1.4-28		3	-	5 x
Dimethyl Sulphide	53*	0.25-10	(0.5)-10	2	10(US)	5 x

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Rev 1.0 May 18

