



Performance

| | | |
|------------------------|-------------|--------------|
| Measuring range | 1 to 20 ppm | 20 to 54 ppm |
| Number of pump strokes | 2 (200 ml) | 1 (100 ml) |
| Correction factor | 1 | 2.7 |
| Sampling time | 4 min | 2 min |

Detecting limit : 0.2 ppm (2 pump strokes)
 Colour change : Yellow → Reddish purple
 Corrections for temperature & humidity : Unnecessary
 Shelf life : 3 years

Reaction principle

Pyrotec : Fluorochlorocarbons $\xrightarrow{\text{(Pyrolyzing)}}$ HCl
 Pyrotube : HCl + Base → Chloride

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

| Substance | Concentration | Interference | Changes colour by itself to |
|--------------------------|---------------|--------------|-----------------------------|
| Halogenated hydrocarbons | | + | } Reddish purple |
| Hydrogen chloride | | + | |
| Nitrogen dioxide | | + | |

Substances measurable with this Pyrotube

| Substance | n | Correction factor | Measuring range (ppm) |
|---|---|-------------------|-----------------------|
| 1,1,2-Trichloro-1,2,2-trifluoroethane (R113) | 1 | 2.7 | 20-54 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (R113) | 2 | 1.0 | 1-20 |
| Chlorodifluoromethane (R22) | 1 | 6.75 | 50-135 |
| Chlorodifluoromethane (R22) | 2 | 2.5 | 2.5-50 |
| Dichlorodifluoromethane (R12) | 1 | 4.85 | 36-97 |
| Dichlorodifluoromethane (R12) | 2 | 1.8 | 1.8-36 |
| 1,1-Dichloro-1-fluoroethane (R141b) | 2 | 1.1 | 1.1-22 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (R114) | 1 | 4.85 | 36-97 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (R114) | 2 | 1.8 | 1.8-36 |
| 2,2-Dichloro-1,1,1-trifluoroethane (R123) | 2 | 1.4 | 1.4-28 |
| Dichloropentafluoropropane (R225) | 2 | 1.4 | 1.4-28 |
| Enflurane | 2 | by scale | 25-145 |
| Halothane | 2 | 3.0 | 3-60 |
| Methyl chloride | 1 | 4.3 | 32-86 |
| Methyl chloride | 2 | 1.6 | 1.6-32 |
| Methylene chloride | 1 | 2.7 | 20-54 |
| Methylene chloride | 2 | 1.0 | 1-20 |
| 1,1,2,2-Tetrachloro-1,2-difluoroethane (R112) | 1 | 2.7 | 20-54 |
| 1,1,2,2-Tetrachloro-1,2-difluoroethane (R112) | 2 | 1.0 | 1-20 |
| Trichlorofluoromethane (R11) | 1 | 2.15 | 16-43 |
| Trichlorofluoromethane (R11) | 2 | 0.8 | 0.8-16 |
| 1,1,1-Trichloro-2,2,2-trifluoroethane (R113a) | 1 | 2.15 | 16-43 |
| 1,1,1-Trichloro-2,2,2-trifluoroethane (R113a) | 2 | 0.8 | 0.8-16 |