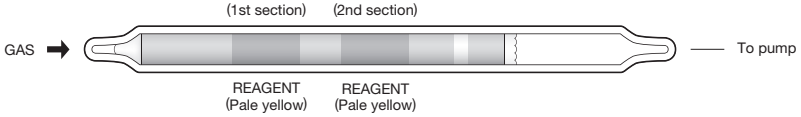
Tube No.
108B

ETHYLENE



1. PERFORMANCE

1) Measuring range	: 0.5-100 ppm	0.1-20 ppm
Number of pump strokes	1 (100mℓ)	5 (500mℓ)
2) Sampling time	: 2 minutes/1 pump stroke	
3) Detectable limit	: 0.01 ppm (500mℓ)	
4) Shelf life	: 3 years	
5) Operating temperature	: 0 ~ 40℃	
6) Reading	: Colour intensity method	
7) Colour change	: Pale yellow → Blue	

2. RELATIVE STANDARD DEVIATION

RSD-low : RSD-mid. : RSD-high :

3. CHEMICAL REACTION

Molybdate is reduced and molybdeum blue is produced.

$H_2C = CH_2 + PdSO_4 + (NH_4)_2MoO_4 \rightarrow Mo_3O_8$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Hydrogen (over 40℃)	Similar stain is produced.	10%	Whole reagent is discoloured to Blue and higher readings are given.
Saturated hydrocarbons	〃		Higher readings are given.
Acetylene	Dark blue stain is produced.		〃
Carbon monoxide	Green or Blue stain is produced.		Lower readings are given.
Hydrogen sulphide	Black stain is produced.	1,000	〃
Hydrogen cyanide	Original colour is faded to White.		〃
Benzene	Yellowish orange or Yellowish brown stain is produced.		
Carbon disulphide	〃		
Chlorine	〃		
Nitrogen dioxide	〃	1	
Ammonia	Original colour fades to White.		Lower readings are given.