GASTEC Instructions for No.120 Aromatic hydrocarbons Detector Tube

FOR SAFE OPERATION:

Read this manual and the instruction manual of your Gastec Gas Sampling Pump carefully.

WARNING:

- 1. Use only Gastec detector tubes in a Gastec pump.
- Do not interchange or use non-Gastec parts or components in Gastec's detector tube and pump system.
- 3. The use of non-Gastec parts or components in Gastec's detector tube and pump system or use of a non-Gastec detector tube with a Gastec pump or use of a Gastec detector tube with a non-Gastec pump may result in property damage, serious bodily injury, and death; voids all warranties; and voids all performance and data accuracy guaranties.

⚠ CAUTION: If not observed, injuries to the operator or damage to the product may result.

- 1. When breaking the tube ends, keep away from eyes.
- 2. Do not touch the broken glass tubes, piece and reagent with bare hand(s).
- 3. The sampling time represents the time necessary to draw the air sample through the tube.
- The tube must be positioned in the desired sampling area for the entire sampling time or until the flow finish indicator indicates the end of the sample.

\triangle NOTES: For maintaining performance and reliability of the test results.

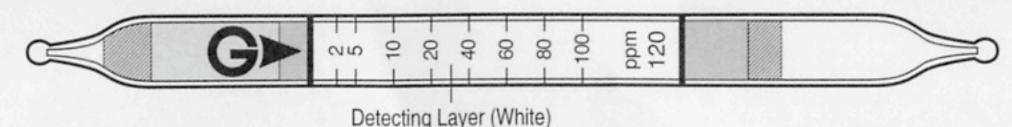
- Use Gastec Gas Sampling Pump together with Gastec Detector Tubes only for the purposes specified in the instruction manual of the detector tube.
- 2. Use this tube under the temperature range of 0 40°C (32 104°F).
- 3. Use this tube under the relative humidity range of 0 90%.
- 4. This tube may be interfered with by the coexisting gases. Please refer to the "INTERFERENCES".
- 5. Shelf life and storage condition of the tube is marked on the label of the box of tube.

APPLICATION OF THE TUBE:

Use this tube for the detection of Aromatic Hydrocarbons in air or the industrial areas and environmental atmospheric condition.

SPECIFICATION:

(As a result of Gastec's commitment to continued improvement, specifications are subject to change without notice.)



	Dottooming Lady or (
Measuring Range	0.4 - 2 ppm	2 - 100 ppm	100 - 200 ppm
Number of Pump Strokes	2 - 5	1	1/2
Correction Factor	1/2 - 1/5	1	2
Sampling Time	1.5 minutes per pump stroke		45 seconds
Detecting Limit	0.2 ppm (n = 5)		
Colour Change	White → Brown		
Reaction Principle	Aromatic Hydrocarbons + I ₂ O ₅ + H ₂ SO ₄ → I ₂		

Coefficient of Variation: 10% (for 2 to 20 ppm), 5% (for 20 to 100 ppm)

- ** Shelf Life: Please refer to the Validity Date printed on the box of tube.
- ** Store the tubes in the dark and cool place.

CORRECTION FOR TEMPERATURE, HUMIDITY AND PRESSURE

Temperature: No correction is required. **Humidity**: No correction is required.

Pressure: To correct for pressure, multiply the tube reading by

Tube Reading (ppm) × 1013 (hPa)
Atmospheric Pressure (hPa)

MEASUREMENT PROCEDURE:

- For leak tight check of the pump insert a fresh sealed detector tube into pump. Follow instructions provided with the pump operation manual.
- 2. Break tips off a fresh detector tube in the tube tip breaker of the pump.
- Insert the tube securely into pump inlet with arrow (G►) on the tube pointing toward pump.
- 4. Make certain pump handle is all the way in. Align guide marks on pump body and handle.
- 5. Pull handle all the way out until it locks on 1 pump stroke (100mL). Wait 1.5 minutes and confirm the completion of the sampling.
- 6. For lower than 2 ppm measurement, repeat the above sampling procedure 1 4 more times until the stain attains to the first calibration mark. For higher than 100 ppm measurement, prepare fresh tube and take 1/2 pump strokes.
- 7. Read concentration at the interface of the stained-to-unstained reagent.
- 8. If correction is needed, multiply the correction factors of temperature, pump strokes and pressure.

DISPOSAL INSTRUCTION:

Reagent of the tube does not use toxic substances. When dispose of the tube regardless of whether used or unused, follow the rules and regulations of the local government.

WARRANTY:

If you have any questions regarding gas detection and quality of the tubes, please feel free to contact your Gastec representatives.

Manufacturer: Gastec Corporation 8-8-6 Fukayanaka, Ayase-City, 252-1195, Japan http://www.gastec.co.jp/

Telephone +81-467-79-3910 Facsimile +81-467-79-3979

Printed in Japan

07B1Z