



GASTEC

GAS DETECTION SYSTEM



NEWS

1

**Diamond
Tube-Tip
Breaker**

2

**Soft-Grip
Cylinder**

3

**Light-Pull
Handle**

The pump piston has been designed with a smaller diameter so that the handle can be pulled out with even less effort. This permits anyone to operate the pump easily.

+1

**Improved
Flow Finish
Indicator**



The full-stroke (100ml) and the half-stroke (50ml) positions are marked exactly by the red line on the pump shaft, and the handle is precisely locked at those positions.

3+1

NEW SAMPLING PUMP MODEL GV-100S

Gastec piston sampling pump design provides you with advanced non sparking design and superior features. It is a convenient handy size easily carried, it weights a mere 230g .

The built-in tip breaker incorporates a diamond edge that cuts the surface of the detector tube. This makes the tip breaking much easier, safer and convenient.



The pump body is covered with a soft elastomer, with the middle portion narrower than the ends to ensure a firm grip on the pump cylinder. The other outer surfaces of the pump are

made of non sparking materials of ABS resin except for the entrance of tube tip cutter that are made of chromed stainless steel.



The attached flow finish indicator tells you automatically when the stroke is complete. When the white disk pops out, the sample is complete.

ick!



the pump shaft red (▶) 100 or
 die until it is locked. Wait until
 sed. With an easy-to-see flow
 pops out when the prescribed
 (n), the operator is assured of

Three



The color in the detector tube changes as
 the gas is drawn in. Wait the required
 sampling time and read the measurement
 at the end of the color changed layer.
 (Please note the concentration or mark
 the color changed demarcation on glass
 tube by a pen immediately).

Simple!



Model GV-100S Gas
 Sampling Pump Kit,
 its accessories (3
 rubber inlets and
 lubricant), and the
 instruction sheet are
 provided in a

carrying case. Model GV-100LS is the
 larger shoulder bag which includes same
 accessories as 100S. Durable leather
 shoulder bag GV-100LS for easy transport
 and hands free operation. Moreover you

can bring at least ten(10)boxes of gas
 detector tube, Model GV-100 Sampling
 Pump, model 350A 5-meter or 10-meter
 extension hose and Gastec Hand Book.
 The Hand Book contains valuable
 information about
 environmental
 measurement using
 gas detector tubes.



Quit

One



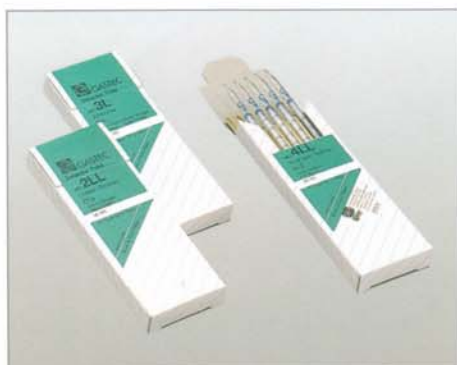
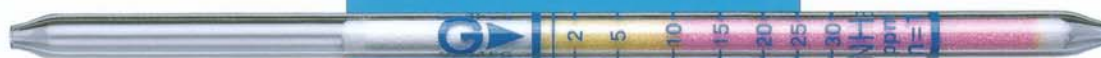
Break off the both ends of the detector tube by using the diamond built-in tip breaker. Confirm the pump handle is fully pushed in. Then insert the detector tube into the rubber inlet with arrow G ► mark towards the gas sampling pump.

Two



Align the guide marks on the tube with the 50 ml, and pull out the handle. When the sampling time has elapsed, the white disk position indicates the finish indicator (white disk position) volume has been fully drawn. This is a fail-safe operation.

Clear!



The Gastec Standard Detector Tube System mainly consists of the Model GV-100S Gas Sampling Pump and Gastec Standard detector tubes. Gastec standard detector tubes are provided in separate box. All Gastec detector tubes are provided in boxes. Each box contains 10 detector tubes of the same kind. A box of twin tubes contains 5 Analyzer (Detector) tubes, 5 Primary (Pretreatment) tubes which a single rubber connector and provides five test. Each box also contains the

instruction sheet for the detector tube and ten numbered adhesive labels. Each of adhesive labels may be separated and put on the detector tube for taking notes of measurement. Major information about the detector tube is printed on the label on the box.



Detector Tube

Gastec standard detector tubes are thin glass tubes with calibration scales printed by which you can directly read concentrations of the substances (gases and vapors) to be measured. Each tube contains detecting reagents that are especially sensitive to the target substance and quickly produces a distinct layer of color change. The tubes are hermetically sealed. To assure a high precision indication, Gastec detector tube's inner diameters are tightly controlled and detecting reagents with long-term stability (many have 3 year shelf life) are strictly selected. All detector tubes undergo stringent quality control. Individual production lots are tested and calibrated independently of each other to ensure the highest calibration accuracy for each lot. Each detector tube has its quality control number printed on it. The Gastec detector tube system meets the JIS K0804(Japanese Industrial Standard), BS 5354 (UK), DIN 33882 (Germany) and SEI (USA).

Target gas
chemical formula

Detector tube
number

Quality Control(QC)
number



Kits and Accessories



■ Pyrotec No.840 (for Tube 51H,51, 51L,53)

Gastec developed the Pyrotec which converts the fluorochlorocarbon gas family and halogenated hydrocarbons by thermal cracking into a gas which can be easily measured. Now, fluorochlorocarbon gases are easy and precisely measured by simply using a Pyrotec tube with the Pyrotec.



■ Hazardous Gas Detection Kit No. TG-1

The primary step in providing counter-measures against hazardous gas generation for occupational hygiene control and pollution control is to acquire accurate data regarding gas types and their concentration levels. Our hazardous Gas Detection Kit consists of 12 detection tubes.



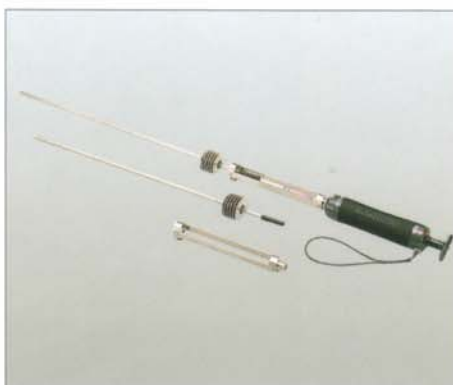
■ Simplified Waste Water Testing Kit No. WPT-132, 133, 135

This simplified waste water testing Kit (for Trichloroethylene, Perchloroethylene, Methyl chloroform) allows the concentration measurement of chlorinated organic solvents. Vapor concentration is converted to the solvent concentration in the liquid (head space method).



■ Sampling Extension Hose No.350A/350A-10

A rubber extension hose for remote measurement down manholes and into tanks which might present a hazard to anyone entering them. Available in 2 sizes: No.350A for 5m and No.350A-10 for 10m. Use extension guard (No. 357) as a replacement extension hose end, or when measuring with twin tubes.



■ Hot Probe No.340 ■ Hot Probe Holder No.345A

A cooling fins unit for measuring high temperature gas (up to approx. 600°C) such as furnace and automotive exhaust gases. The sample is cooled to ambient temperature for accurate concentration measurement. Use hot probe holder (No.345A) to attach the hot probe for better stability.



■ Smoke Tester No.500

This kit allows the operator to test air flows in workplaces accurately and easily. Just break off both ends of a No.501 smoke generation tube (6 tubes/box) and connect the tube to the rubber bulb. Squeezing the bulb provides atmospheric moisture that reacts with the reagent in the tube, generating a white smoke. A single No.501 tube can be used repeatedly for 50 to 100 tests by sealing the tube ends with the rubber caps after each test.

Now

Special

Gas/Vapor

Dosimeter tubes for
TWA monitoring of
contaminants in air

and

Water

Detector tubes for
substances in solution

Measurements

are

Easy.



Passive Dosimeter-Tube

The dosimeter tube method utilizes the principle of gas diffusion. Using the holder (Dosi-Tube Holder No.710-3 pcs. in package) attach the tube to the breathing zone of the worker. (i.e.,lapel) and measure individual exposure Time-Weighted-Average (TWA). Or it can be installed in work areas to act as an area monitor for TWA measurement. The chemical reagent and diffusion barrier are positioned in the detector tube to give consistent gas diffusion uptake by the tube and clear color change. No pumps, paper charts, secondary operations or laboratory analysis is required. For more details, please see attached tube list.



Detector Tubes For Substances in Solution

This tube measures the Sulfide (S^{2-}), Chloride (Cl^-), Iron (Fe^{2+}), Copper (Cu^{2+}), Zinc (Zn), Nickel (Ni), dissolved in water. Place the sample water in a container. Brake off both ends of the detector tube and immerse in the sample water is drawn into the tube by capillary action.

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