Air Sampling Instruments

for evaluation of atmospheric contaminants

9th Edition, 2001

ACGIH® WORLDWIDE

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PART II. INSTRUMENTATION

General

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Page 470: Table 17-3 – Heading for 5th column in table should read "**Gastec**"

Also, under heading "**Pump model(B)**," the last two entries should read:
"Gastec 800 pump
Gastec GV-100"

Page 489:

17-35. Straughan Technical Hazmat Kits
Straughan Technical LLC

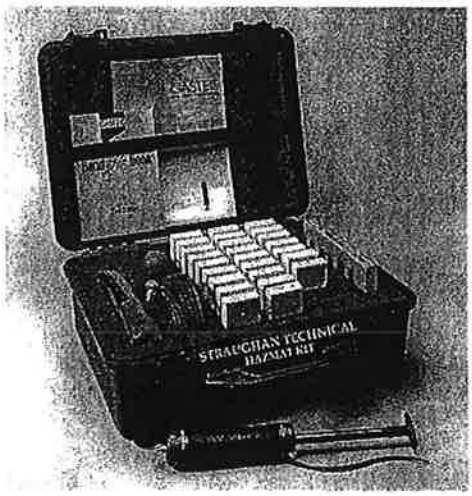
Gastec through Straughan Technical provides three direct reading Hazmat Kits to meet each customer's unique needs. Each Hazmat Kit is a complete ready to use portable hazardous material detector kit requiring no user calibration, no electrical power and no color comparison charts. The kits all use Gastec's direct reading detector tubes, so there are no errors from improper matching of colors that can occur at night, in elements of weather or in high stress emergency response situations. The Standard Hazmat Kit includes the Gastec GV-100 piston pump, a 5 meter extension hose, 13 different direct reading detector tubes, a 440 page operation and maintenance manual, and one complete and easy to use laminated sampling logic flow chart for identifying unknown substances, all contained in a leather carrying case. The Deluxe Hazmat Kit contains all the elements of the Standard Hazmat Kit plus a complete Verifit respirator fit test and air flow indicator kit in a hard-sided water resistant carrying case. The Deluxe II Hazmat Kit expands upon the features of the Deluxe Hazmat Kit by adding an additional 12 detector tubes for a total of 25 detector tubes for the identification of up to 35 different groups of substances. (see Instrument 17-35)

17-36. Gastec Gas Detector System
Gastec Corporation

Over 500 gases, vapors and substances can be measured with Gastec's variety of over 250 different direct reading detector tubes. (see Table 17-I-25) All Gastec direct reading tubes contain a reagent that is specifically sensitive to a particular target gas or substance. The reagent is packaged in a hermetically sealed glass tube that is manufactured with a precise constant inner diameter. The reagent reacts with the target gas to produce a color change that creates a quantitative length of stain in the detector tube and Gastec's direct reading detector tubes have calibration markings printed directly on the tube, so measurements are as simple as reading a thermometer. Gastec's proprietary calibration computer program prints a precise calibration scale on the detector tube by individual lot, ensuring the highest accuracy in every measurement. The quality control number, chemical symbol, and expiration date are printed on each box of detector tubes.

Gastec's standard detector tube system incorporates the use of the GV-100 pump, which is lightweight, rugged and corrosion resistant. The GV-100 pump is a high precision piston style volumetric pump that includes a tube tip breaker and a patented flow finish indicator conveniently located in the handle. The GV-100 is specifically designed for use only with Gastec standard detector tubes.

There are three easy steps to sample with a Gastec standard detector tube. First, the operator breaks off both tips of the detector tube with the built in diamond tube tip breaker built into the GV-100 pump and inserts the detector tube into the pump's tube holder with the G► mark pointing toward the pump. Second, the operator pulls out the handle until it is locked and waits for the easy-to-read flow finish indicator to turn white. Third, the operator reads the measurement at the end of the color change layer through the detector tube's printed scale. The farther the stain travels up the tube, the higher the concentration. There are no charts, graphs or other media needed to complete the process. Typically, the range of any Gastec tube may be expanded above and below the printed scale by simply decreasing or increasing the number of pump strokes.



INSTRUMENT 17.35. Straughan Technical HazMat Kit System.

INSTRUMENT 17.36. Gastec Gas