



KITAGAWA AMERICA

Visible Detection Of Invisible Gases™

Compressed Breathing Air Analysis Kit Model BK Series

FEATURES

- Complete analysis for five components within minutes; no need to wait for lab results
- Connects directly to the breathing air source
- No need for electrical power or batteries
- Easily transported in carrying case
- Very economical
- Backed by a one year warranty



APPLICATION



The Kitagawa BK Series is ideal for anyone involved in the filling, purification, generation, or usage of compressed breathing air. Impurities in breathing air can adversely affect human health. The BK Series is designed to measure these contaminants in SCBA, SCUBA and other pressurized breathing air cylinders, as well as directly from the outlet of an air compressor or purifier. The BK easily measures five components within minutes: carbon monoxide, carbon dioxide, oil mist, water vapor and oxygen.

PRODUCT DESCRIPTION

Each of the BK Series Kits contains the following components:

- Pressure Reducing Regulator
- Flowmeter
- Flow Bypass Valve
- Timer
- Detector Tube Tip Cutter
- Adjustable Wrench
- Hard Shell Carrying Case
- Optional 50ml syringe / tubing for use with Oxygen detector tube

Detector tubes for measuring each of the five breathing air components are sold separately:

- Carbon Monoxide
- Carbon Dioxide
- Oil Mist
- Water Vapor
- Oxygen



HOW IT WORKS



After connecting the BK assembly to the compressed breathing air source to be analyzed, the breathing air is passed through each detector tube at a specific pressure, flow rate and time interval. Each detector tube is made with high purity reagents that absorb and react with the target component. The reaction causes a colorimetric stain whose length is proportional to the component's concentration. The actual concentration is read directly from the measurement scale printed on the detector tube.

DETECTOR TUBE SPECIFICATIONS

Component to be Measured	Carbon Monoxide	Carbon Dioxide	Oil Mist	Water Vapor	Oxygen
Part Number	600SP	601SP	602SP	603SPA	604SP
Measuring Range	5-100 ppm	100-3000 ppm	0.3-5.0 mg/m ³	20-160 mg/m ³	2-24%
Color Change	Yellow to Dark Brown	Purple Blue to Pale Pink	Yellow to Pale Blue	Yellow to Yellow-Green or Blue ¹	White to Brown
Sampling time, min	2	2	25	1	- - -
Detector Tubes Per Box	10	10	10	10	10

Note (1): Changes to yellow-green below 60 mg/m³ and to blue above 60 mg/m³

ORDERING INFORMATION

Model Number	Description
BK-346	Compressed Breathing Air Analysis Kit with CGA 346 cylinder inlet connection. Includes, pressure regulator, flowmeter, flow bypass valve, timer, detector tube tip cutter, adjustable wrench, hard shell carrying case. Detector tubes sold separately.
BK-590	Same as above, except with CGA 590 cylinder inlet connection
BK-P4M	Same as above, except with ¼" NPT male inlet connection
600SP	Carbon Monoxide detector tubes, pkg 10
601SP	Carbon Dioxide detector tubes, pkg 10
602SP	Oil mist detector tubes, pkg 10
603SPA	Water Vapor detector tubes, pkg 10
604SP	Oxygen detector tubes, pkg 10
BK-ACC-01	50 ml syringe and tubing necessary for 604SP Oxygen detector tube

Notes: Other inlet connections are available. Please inquire.
Maximum Inlet Pressure 3000 psig.