PORTABLE TEST BENCH

The portable test bench is a gas generator intended to check the AP2C, AP2C-V and ADLIF sensitivity. It includes a notebook with a software to visualize and adjust the detector parameters.

• Packaging

It is packaged in a case, which allows its use in workshop and in situ (aboard ships for example). It operates with free air, a phosphine cylinder (PH3) and a sulfur dioxide cylinder (SO2), used for organophosphorus (G, Vx) and organosulfur (HD) simulation.

It is fitted with a diffuser joined with the bench by a flexible hose. The diffuser is used on the case for the AP2C/4C checking, or remote to check AP4C-V or AP4C-F if located on a vehicle or on a ship.

The bench is supplied with:

- 1 interface drawer (ref.: 09212) for connection to an AP2C/4C,
- 1 detector connecting cable (ref.: 09213) for connection to an AP4C-V,
- 1 adaptation plug (ref.: 09208) for connection to an AP4C-F,
- 1 power grid cable for connection equally well on 110 Vac or 220 Vac.

• Principle of operation

The air required to dilute SO2 and PH3 gas is taken directly from the surrounding air and is fed to the diffuser by a vane pump. The air filter eliminates all traces of dusts and water vapor.

A mass flow meter measures the actual airflow to allow the SO2 and PH3 flows to be set.

Two mass flow meters check the SO2 and PH3 flows, before reaching the mixer, which mixes the gas and air required to simulate toxic agent for the devices calibration.

Concentrations of generated gases:

- SO2: 310 and 840 µg/m3
- PH3: 8 and 38 µg/m3

The bench can be joined to a Portable Terminal (TP) or to a PC type microcomputer in order to visualize the different detectors internal parameters and to calibrate them.

• Characteristics

- Weight: 20 kg (44 lbs)
- External Size (LxWxH): 550 mm x 420 mm x 320 mm
(21.65 " x 16.53 " x 12.59 ")
- Supply voltage: 100 to 240 Vac 50/60 Hz
- Operating temperature: +10°C to +40°C
(+50°F to +104°F)
- Storage temperature: +0°C to +50°C
 (+32°F to +122°F)