



ESTD. 1991

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Certified ISO 9001: 2000 by



CERT. NO. 217910

MODEL EC – 1000 MODIFIED ATMOSPHERE PACKAGED HEADSPACE OXYMETER

THE INSTRUMENT

THE TECHNOVATION HEADSPACE OXYGEN ANALYSER MODEL EC-1000 has a specially designed sampling configuration with an inbuilt pump and timer switch and an ultrasensitive oxygen sensor that makes it feasible to accurately measure oxygen contamination in the headspace of flexible food packs or tin cans.

The Headspace Analyser Model EC-1000 incorporates an adapted hypodermic needle to pierce the flexible food packs and draw the gas by means of the inbuilt pump. In the case of headspace analysis of tin cans, Model EC-1000 when used in conjunction with the tin can piercer device provides the headspace analysis of % oxygen in the tin can of heights upto 380 mm. The high vacuum pump is designed to educt the headspace atmosphere of low internal pressure.

Models work on 220 VAC mains supply . This portable instrument is available with digital readout 0-25% O₂ range and 0.1 % oxygen in steps with front adjustments for zero, calibration & sampling the headspace gas.

FEATURES

- Internal pump to draw a sample
- Adjustable timer for sample pump
- Quick and accurate response to Oxygen
- Easy to operate by any one
- Portable, light weight.
- Tin can piercer press & stand available with hardened needles

APPLICATIONS

The food packaging industry uses modified atmospheres to improve shelf life and quality of nuts, wafers, snack foods, oils, skimmed milk and many other packaged food products within a variety of food packages such as soft packs, pouches, tin cans or bottles.

MODEL EC-1000 provides an analysis method for headspace oxygen that helps quality control by determining the residual oxygen in headspace. MODEL EC-1000 helps to properly adjust the speed of nitrogen gas while packaging. The simplicity of operation of MODEL EC-1000 makes it ideal for quick routine measurements as well as for repetitious laboratory studies.

STANDARD SPECIFICATIONS

| | |
|-------------|---------------------------------|
| Display | : 3 ½ Digit LCD 12 mm high |
| Range | : 0 – 25 % |
| Accuracy | : ± 2 % at constant temperature |
| Power | : Rechargeable batteries. |
| Sensor type | : Electrochemical |

CHECK % OXYGEN INSIDE FLEXIBLE FOOD PACKAGES & TIN-CANS



TECHNOVATION® MODEL EC – 1000

STANDARD SPECIFICATIONS CONTINUED

| | |
|---------------------|---|
| Sensor life | : 2 years expected life |
| Working temperature | : 5 – 45 ° C |
| Gas Eduction | : By internal pump |
| Pump Suction | : Minimum 8 “ Hg Column |
| Flow | : 0.5 Liter/Minute |
| Pump Timer | : Adjustable between 3 to 30 Seconds |
| Size | : 195 x 98 x 155 mm depth |
| Weight | : 1.5 kg approximately |
| Calibration | : By ambient air or certified calibration gas |

ACCESSORIES

| | |
|--------------------|---|
| Hypodermic syringe | Special Needle holder with filter and 3 nos needles |
| Self Adhesive pads | 500 Nos. cut pieces of foam for flexible packs |
| Battery charger | For Rechargeable Battery operated models only. |
| Carrying case | For Inst., Charger & Accessories |

OPTIONAL EXTRAS

| | |
|-----------------|---|
| Tin can piercer | Press Stand , hardened needles and necessary accessories for sampling from hard packs and Tin-cans. |
| Power Supply | Rechargeable batteries. |
| Recorder o/p | 0-1 V corresponding to 0-25 % |