

# HKE-ES-03 Program Controlled Quantitative Sealer



## 1. Product Overview:

Enzyme substrate method intelligent programmable quantitative sealing machine (equipped with 51-Well rubber pad or 97-Well rubber pad, operation manual and power cord, power insurance, quantitative data display and cleaning maintenance window), used for sealing 51-well and 97-well trays, matched with enzyme substrate method detection reagents for detecting water samples. This method can replace and outperform traditional methods such as membrane filtration and multi tube fermentation for detecting microorganisms in water.

## 2. Product Purpose:

Used for measuring total coliforms and detecting *Escherichia coli*, heat-resistant coliforms (fecal coliforms), and enterococci. Types of water that can be used for detection: drinking water, source water, wastewater, food water, surface water, groundwater, seawater, bottled water, reclaimed water, secondary water supply, pipeline water, livestock water, medical water, etc.

## 3. Advantages of the method:

- (1) No need to operate in a sterile room.
- (2) The manual operation time is less than 1 minute.
- (3) No need for culture medium preparation and extensive sterilization of glassware.
- (4) Qualitative and quantitative analysis can be completed within 24 hours without the need for validation experiments.



#### **4. Features of HKE-ES-03 model:**

- (1) The upper part of the shell adopts a whole piece of organic glass operation panel, touch sensitive 2. Waterproof buttons, no physical buttons;
- (2) The organic glass panel includes a reverse switch, sleep button, and data connection button;
- (3) The sleep button can switch to standby mode when the instrument is idle;
- (4) Integrated aluminum alloy outer compartment door, LCD screen can display the opening and closing status of the compartment door;
- (5) The inner compartment door is a sliding type, which can be pushed forward for cleaning and maintenance of the heating roller;
- (6) A normally open leakage direct discharge device is used to prevent liquid accumulation inside the machine after leakage.

#### **5. Operating parameters:**

- (1) LCD display screen, displaying information including preheating process, counting statistics, fault codes, door opening/closing reminders, and electronic clock display; Preheating process displayed in both Chinese and English;
- (2) Count statistics are displayed in both Chinese and English, with numbers showing no less than six digits;
- (3) Display fault codes in both Chinese and English, with a minimum of 8 displayed;

(4) The door opening/closing reminder is displayed in both Chinese and English, with corresponding prompts of "open door" or "close door" based on the status of the outer compartment door switch;

#### **6. Technical parameters:**

(1) Preheating time: 2-3 minutes;

(2) Sealing speed: 51 Well/97 Well fixed quantity detection disk sealing time < 9 seconds/piece

(3) Detection range: in conjunction with a 51 well quantitative detection disk. Detection range: 0-200MPN/100ml (water sample not diluted); Cooperate with 97.

(4) The detection range of the fixed amount detection disk is 0-2419MPN/100ml (the water sample is not diluted);

(5) Reliability: No leakage or hole breakage after sealing

(6) Convenience: The instrument can detect more than 50000 samples within its service life.

