

## COMMODITY DESCRIPTION

| H.S. No | Item No | Description         | Unit | Quantity |
|---------|---------|---------------------|------|----------|
|         |         | Extraction COD Bath | set  | 1        |

A. Model : JSEB-82T

B. Product Description : Extraction COD Bath

C. Manufacturer / Origin : JS Research Inc. / Korea

D. Application :

JSEB-Series Extraction COD Digestion Bath is the most popular thermo reactor for determination Chemical Oxygen Demand in various substances. Chemical Oxygen Demand (COD) is a measure of the capacity of water to consume oxygen during the decomposition of organic matter and the oxidation of inorganic chemicals.

Supplied with size adjustable concentric ring covers and frame set to hold glassware.

Temperature range from ambient +5 °C to 99.9 °C

E. Photo



JSEB-Series Extraction COD Bath

## **F. Feature**

### **Controller JSC-0D Digital PID Controller**

- ✓  $\pm 0.1$  °C Digital PID Controller with LED Display
- ✓ Automatic START/STOP timer
- ✓ Adjustable timer scale 99min 59sec / 99hr 59min / 99day 23hr or continuous operation
- ✓ Temperature calibration
- ✓ Auto-tuning function
- ✓ Class A Pt-100 $\Omega$  sensor

### **Construction**

- ✓ Durable epoxy powder coated metallic casing
- ✓ Corrosion resistant Stainless Steel 304 bath
- ✓ Corrosion resistant Stainless Steel 304 sheath immersion heater
- ✓ Corrosion resistant Stainless Steel 304 lid with concentric ring cover included
- ✓ Perforated heater cover (bottom plate) included

### **Performance**

- ✓ Maintain water temperature from ambient + 5 °C to 99.9 °C
- ✓ Excellent control accuracy within  $\pm 0.5$  °C and thermal uniformity within  $\pm 1.0$  °C
- ✓ Corrosion resistant Stainless Steel 304 sheath immersion heater directly heating water in the bath to reach set temperature quickly
- ✓ Perforated heater cover helps convection of heated water circulation throughout bath to maintain thermal uniformity of the bath

### **Convenience**

- ✓ Easy to clean Polished Stainless Steel 304 Bath
- ✓ Perforated stainless steel bottom plate
- ✓ Drain for easy emptying of the bath fluid
- ✓ Supplied with stainless steel cover with concentric ring cover set of various size openings of dia. 30mm, 60mm, 90mm, 110mm
- ✓ Stainless steel pipe frames set included to hold glassware clamps

### **Safety**

- ✓ DUAL OVER TEMP. CUT-OFF  
Digital system cut-off heater and AUDIO VISUAL ALARM in case +2 °C above set temperature  
Analog system cut-off heater 10% above set temp.
- ✓ MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM when +1 °C above maximum limit
- ✓ SENSOR DISCONNECTION ALARM
- ✓ OVER CURRENT CUT-OFF

## G. Specifications

|                           |   |
|---------------------------|---|
| Number of Extraction Port | 8 EA x $\varnothing$ 110 mm ( 2 x 4)  |
| Inner Dims. (W x D x H)   | 650 x 322 x 150 mm  |
| Outer Dims. (W x D x H)   | 815 x 395 x 300 mm  |
| Temp. Range               | ambient +5°C ~ +99°C  |
| Accuracy                  | $\pm$ 0.5°C at +60°C  |
| Uniformity                | $\pm$ 1.0°C at +60°C  |
| Control                   | Microprocessor PID control Auto START / STOP Timer  |
| Sensor                    | Class A PT-100 $\Omega$ Sensor  |
| Safety                    | Over-Temperature Cut-Off<br>Over Current Cut-Off  |
| Material                  | Body : Epoxy Powder Coated Steel<br>Bath : Stainless Steel 304<br>Ring Cove : Stainless Steel 304 |
| Electrical Requirement    | 220 $\pm$ 10% VAC, 50/60Hz, 1-Phase   |
| Heater Capacity           | 4.0 kW  |
| Power Rating              | 18.2 amps   |
| Plug Configuration        | 30 Amp  |

## H. Standard Accessories

|                       |         |
|-----------------------|---------|
| Concentric Ring Cover | : 8 SET |
| Bottom Plate          | : 1 EA  |
| Frame and Holder Set  | : 1 SET |
| Instruction Manual    | : 1 EA  |
| Warranty Card         | : 1 EA  |

## I. Options & Accessories

| Art. No. | Descriptions               |
|----------|----------------------------|
| PHH-X01  | Pipe Holder                |
| PHH-X02  | Clamp Holder max grip 19mm |
| PHH-X03  | 2-prong clamp Length 60mm  |
| PHH-X04  | 3-prong clamp Length 60mm  |
| PHH-X05  | 3-prong clamp Length 80mm  |

## J. Warranty

1 Year full coverage warranty