

COMMODITY DESCRIPTION

| H.S. Code | Item No | Description | Unit | Quantity |
|--------------|---------|-------------------------|------|----------|
| 8514.20.1000 | | Electric Muffle Furnace | SET | 1 |

A. Model Name : JSMF-30T

B. Product Description : Electric Muffle Furnace

C. Manufacturer / Origin : JS Research Inc. / Rep. of KOREA

D. Application :

Ideal for experiments and process needs high temperature up to 1000°C such as chemical analysis, annealing loss determination, materials testing and ashing processes.

E. Photo



JSMF-45T Electric Muffle Furnace

F. Feature

Controller

- ✓ Programmable Digital PID control with ± 1.0 °C resolution
- ✓ 3 Patterns Memory, 9 Ramps and 9 Dwell Segments, Max. 999 Cycles repeatable for each pattern
- ✓ Program Mode / Constant Temp. Mode
- ✓ Pattern Link Function
- ✓ Segment Skip Function
- ✓ Automatic STOP timer Max. 99 min 59 sec
- ✓ Temperature calibration
- ✓ Auto-tuning function
- ✓ CA-Type sensor

Construction

- ✓ Heavy duty vacuum molding ceramic fiber insulation designed to supports heavy load, high temperature and repeated use
- ✓ Door inner liner is filled with molded ceramic-fiber for long service life
- ✓ Ventilation damper on top

Performance

- ✓ Embedded or exposed Kanthal-A1 heating elements offer maximum heat transfer and thermal uniformity, long service life, protection from harmful materials and mechanical shock
- ✓ Maximum temperature up to 1,000 °C

Convenience

- ✓ Opening size adjustable ventilation
- ✓ Optional Ceramic Shelf

Safety

- ✓ 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 : Electrical Leakage Breaker

G. Specifications

| | |
|---------------------------|---|
| Chamber Volume (Capacity) | 2.9 Liters |
| Inner Dims. (W x D x H) | 130 x 250 x 90 mm |
| Outer Dims. (W x D x H) | 435 x 480 x 560 mm |
| No. of Ventilation damper | 1 EA |
| Heating | KANTHAL A-1 heating element |
| Temp. Range | Maximum +1,000°C General operating +800°C |
| Accuracy | ±3.0°C at +500°C |
| Uniformity | ±3.0°C at +500°C |
| Heat up time to +800°C | 30 min. |
| Control | Programmable PID control 3 Pattern Memory 9 ramps and 9 dwells segments |
| Sensor | CA(K)-Type Sensor |
| Safety | Over-Temperature Cut-Off Over Current Cut-Off |
| Material | Body : Epoxy Powder Coated Steel, 1.0 mm thickness Chamber : Ceramic Fiber |
| Electrical Requirement | 220 ± 10% VAC, 50/60Hz, 1-Phase |
| Heater Capacity | 1.4 kW |
| Power Rating | 6.5 amps |
| Plug Configuration | CEE 7/7 Schuko or BS 1363 |

H. Standard Accessories

Instruction Manual : 1 EA
Warranty Card : 1 EA

I. Options & Accessories

| Art No. | Descriptions |
|---------|---------------|
| PHS-E01 | Ceramic Shelf |

J. Warranty

1 Year full coverage warranty