COMMODITY DESCRIPTION

H.S. No	Item No	Description	Unit	Quantity
		Two Chamber Shaking Incubator	set	1

A. Model: JSSI-202CL

B. Product Description: Shaking Incubator

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

D. Application:

JSSI-202 Series Shaking Incubator has two independent temperature controlled chambers with shaker for big volume tissue culture applications at different temperature and shaking speed. Front loading door system allow easy sample loading and unloading.

E. Photo



JSSI-202C(L) Two Chamber Shaking Incubator

F. Feature

JSC-7S Integrated Digital PID Controller

- ✓ Temperature control with ±0.1 °C
- ✓ Shaking speed control within ±1 rpm
- ✓ Temperature and shaking can be controlled together or independently with timer
- ✓ Automatic STOP timer Max. 99min 59sec / 99hr 59min / 99day 23hr
- ✓ Dual digital LED displays TEMP, RPM and remaining TIME
- ✓ Temperature calibration
- ✓ Shaking speed calibration
- ✓ Slow Start and Stop Control
- ✓ Auto-tuning function
- ✓ Class A Pt-100 Ω sensor
- ✓ Power back-up function when power failure.
- Programmable Photoperiodic Day and Night simulation Light Control with 4 x 36 Watt Fluorescent Lamps and 24 hr timer

Construction

- Durable epoxy powder coated metallic casing
- ✓ Corrosion resistant Stainless Steel 304 chamber
- Durable Stainless Steel 304 Sheath Heater and Copper-Aluminum fin evaporator
- ✓ Front loading door with magnetic packing with glass window

Performance

- ✓ Two independent temperature controlled chamber with shaking platform allows conducting two different culture conditions at the same time.
- ✓ Forced circulation for excellent thermal uniformity within ±0.2 °C
- ✓ Separate heating and cooling compartment prevents contamination and maintenance free
- Cooling system with hermetically sealed compressor
- Durable shaking mechanism with powerful AC motor supports orbital or reciprocal shaking motion
- ✓ Programmable Lighting System with 24 hour timer for photosynthetic culture

Convenience

- ✓ Door with silicone packing and compression door lock.
- ✓ Double layer glass window, lighting in chamber for easy observation during cultivation
- ✓ Door switch to cut-off shaking motion when put in and out sample
- ✓ Auto-defrost system, user settable interval and time
- Caster and height adjustable level feet for easy transport, balancing and anti-vibration
- ✓ Various choice of shaking platforms

Safety

✓ DUAL OVER TEMP. CUT-OFF

Digital system cut-off heater and AUDIO VISUAL ALARM in case +2 $^{\circ}$ 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.
- ✓ OVER COOLING, CUT-OFF

Digital system automatically cut-off compressor in case -3 °C below set temperature

✓ OVER SPEED CUT-OFF

Digital system automatically cut-off motor in case +10 rpm above set rpm.

- ✓ SENSOR DISCONNECTION ALARM
- ✓ Motor failure ALARM
- ✓ Shaking motion automatically stops when door opened
- ✓ OVER CURRENT CUT-OFF : Electric Leakage Breaker

G. Specifications

Chamber Volume (Capacity) 2 Chambers x 324 Liters Inner Dims. (W x D x H) $750 \times 720 \times 600 \text{ mm}$ Outer Dims. (W x D x H) $1295 \times 845 \times 1750 \text{ mm}$

Platform Dims. (W x D) $700 \times 650 \text{ mm}$

Heating Forced Air Convection

Cooling CFC Free Air Cooled Compressor

Temp. Range $+10\,^{\circ}\text{C} \sim +70\,^{\circ}\text{C}$ Accuracy $\pm 0.5\,^{\circ}\text{C}$ at $+25\,^{\circ}\text{C}$ Uniformity $\pm 2.0\,^{\circ}\text{C}$ at $+25\,^{\circ}\text{C}$

Shaking Mode Orbital

Reciprocal with optional adaptor

Shaking speed range 20 ~ 350 rpm

Shaking Stroke 20 mm
Shaking speed accuracy ±1 rpm

Work Light 4 x 36 Watt Fluorescent Lamp

Control Integrated Digital PID microprocessor control system

Digital display of PV and SV for temperature, rpm and time

Timer: 99min 59sec / 99hr 59min / continuous

time scale selectable

Sensor Class A PT-100 Ω Sensor

Safety Over-Temperature Cut-Off

Over-Speed Cut-Off

Over Current Cut-Off

Material Body: Epoxy Powder Coated Steel, 1.0 mm thickness

Chamber: Stainless Steel 304, 0.8 mm thickness

Glass Window: Double Layer Tempered Safety, 5 mm thickness

Electrical Requirement 220 ± 10% VAC, 50/60Hz, 1-Phase

Heater Capacity 2 x 1.2 kW Power Rating 20.0 amps

Plug Configuration CEE 7/7 Schuko or BS 1363

Net Weight 200 kg Shipping Weight 250 kg

Shipping Dims. (W x D x H) 1450 x 1000 x 1950 mm, Wooden crating

H. Standard Accessories

Instruction Manual: 1 EA
Warranty Card: 1 EA

I. Options & Accessories

Art No. Descriptions

PHF-P11 Adaptor Kit for Reciprocal Motion

OHC-106 24 Hour Timer Photoperiodic Light Control

PHF-U70 Universal Spring Rack W690 x D650 mm

Flask loading capacity (approx. 42 x 100ml, 25 x 250ml, 19 x 500ml, 15 x 1000ml,

8 x 2000ml)

PHF-P70 Universal Flask Holder Platform W700 x D650 mm

Flask loading capacity (approx. 41 x 100ml, 25 x 250ml, 25 x 500ml, 16 x 1000ml,

9 x 2000ml, 9 x 3000ml, 5 x 5000ml)

PHF-P71 Dedicated Flask Holder Platform W700 x D650 mm

including 72 ea x 50 ~ 100 ml polycarbonate flasks holder

PHF-P72 Dedicated Flask Holder Platform W700 x D650 mm

including 42 ea x 200 ~ 300 ml polycarbonate flasks holder

PHF-P73	Dedicated Flask Holder Platform W700 x D650 mm		
	including 25 ea x 500 ~ 1000 ml polycarbonate flasks holder		
PHF-M70	Non-Slip Rubber Mat W700 x D650 mm		
PHF-P01	Polycarbonate Flask Holder 50 ~ 100 ml Size Adjustable		
PHF-P02	Polycarbonate Flask Holder 200 ~ 300 ml Size Adjustable		
PHF-P03	Polycarbonate Flask Holder 500 ~ 1000 ml Size Adjustable		
FHIT-FU3	Potycarbonate i task flotder 300 ~ 1000 flit Size Adjustable		
DUE CO.	6 6		
PHF-S01	Stainless Steel Flask Holder 100 ml		
PHF-S02	Stainless Steel Flask Holder 250 ml		
PHF-S03	Stainless Steel Flask Holder 500 ml		
PHF-S04	Stainless Steel Flask Holder 1000 ml		
PHF-S05	Stainless Steel Flask Holder 2000 ml		
PHF-S06	Stainless Steel Flask Holder 3000 ml		
PHF-S07	Stainless Steel Flask Holder 5000 ml		
PHF-T01	Test Tube Holder 8 mm Dia. for 80 test tubes		
PHF-T01	Test Tube Holder 10 mm Dia. for 80 test tubes		
PHF-T01	Test Tube Holder 12 mm Dia. for 54 test tubes		
PHF-T01	Test Tube Holder 14 mm Dia. for 54 test tubes		
PHF-T01	Test Tube Holder 16 mm Dia. for 30 test tubes		
PHF-T01	Test Tube Holder 25 mm Dia. for 15 test tubes		
PHF-T01	Test Tube Holder 35 mm Dia. for 8 test tubes		

J. Warranty

1 Year full coverage warranty