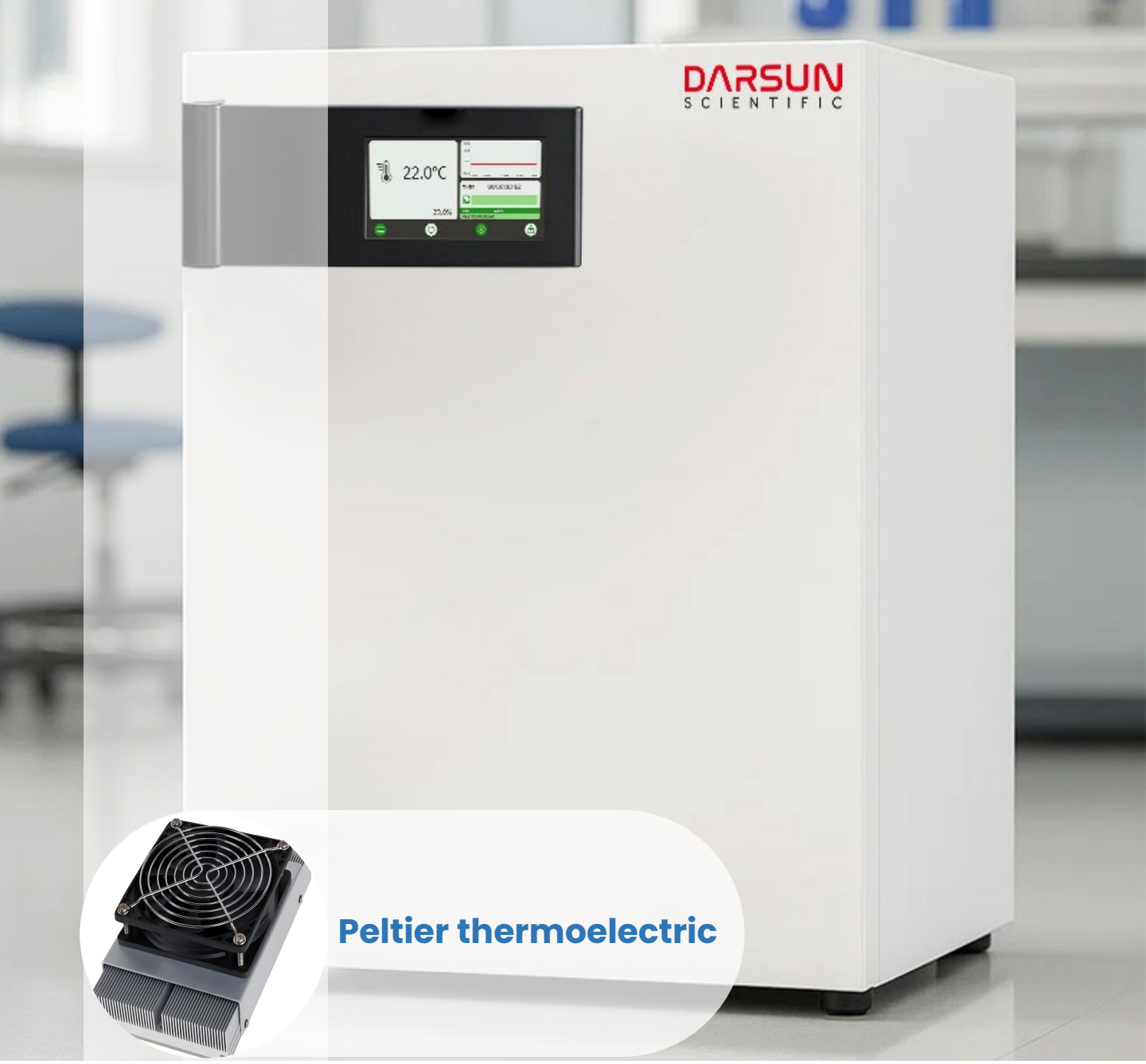

Peltier thermoelectric

Semiconductor Low Temperature Constant Temperature Incubator

India Office

16 S/F B/S, T-Block Extn.
Jain Colony Part-2 Uttam Nagar,
New Delhi-110059
info@darsunscientific.in
(+91) 9999136670, 7835864003

USA Headquarters

30 N Gould St, Ste R
Sheridan, Wyoming 82801
United States

DarsunScientific

Darsun Scientific

Semiconductor Low Temperature Constant Temperature Incubator

DS200

The DS200 incubator is widely used in laboratories across biotechnology, agriculture, environmental protection, medical, pharmaceutical, aquaculture, and other fields. It is designed for low-temperature experiments on microorganisms, animal and plant cultivation, and sample storage and processing

Semiconductor Cooling/Heating Technology

- No need for refrigerants
- Pollution-free and noiseless
- Energy-saving up to 85%
- Maintenance-free with long service life (50,000 hours)
- Compact and easy to move

7-Inch Smart Touchscreen

- Real-time temperature display and control
- Intuitive and user-friendly operation
- Supports password protection and multi-stage program editing
- Each program supports up to 5 time periods, each with up to 100 steps
- Maximum of 999 cycles to accommodate various experimental needs

7-Inch Smart Touchscreen

Human-Centered Design

- Interior and shelves made of 304 stainless steel with rounded corners for easy cleaning
- Comes with UV disinfection lamp for interior sterilization
- Built-in fan and temperature sensor for accurate circulation
- Compatible with small instruments due to embedded slots and tray positions

Precise Temperature Control

- Uses semiconductor refrigeration, Peltier thermoelectric design
- Real-time digital temperature adjustment
- Prevents temperature overshoot with intelligent feedback and dual temperature sensors

Peltier thermoelectric

Safety & Reliability

- Alerts: Over-temperature, high/low temp, door open, sensor fault
- Built-in safety features: power-off protection, overcurrent/overvoltage detection, anti-dry burn
- Automatic system shutdown and power-off when exceeding set temperature range (0–100°C)

Automatic system shutdown and power-off when exceeding set temperature

Technical Specifications

Item	Specification
Model	DS200
Cooling/Heating Method	Semiconductor
Temperature Range (°C)	0–70
Temperature Fluctuation (°C)	±0.1
Temperature Uniformity (°C)	±0.2@22°C / ±0.5@37°C
Temperature Sensor	Dual PT100
Control Accuracy	±0.1°C
Control Method	PID Control (Touchscreen + Intelligent Control)
Capacity (L)	200
Internal Dimensions (W×D×H)	500×580×690 mm
External Dimensions (W×D×H)	680×835×870 mm
Net Weight (kg)	90
Insulation Thickness	42 mm
Over-temperature Protection	Yes
Data Interface	USB, Remote Alarm
Maximum Power	400W
Power Supply	100–240V, 50/60Hz

Optional Accessories

Accessory	Description
IOT Module	Allows mobile app or PC to remotely monitor and control device
UV Lamp	Optional, for disinfection inside the chamber, effective against bacteria
Wireless Sensor Module	Real-time detection of CO_2, O_2, humidity, temperature, and pressure levels
Tray Insert	Tray-compatible design allows use of dual-layer trays
Power Socket	Embedded slot design for use with small internal devices