KEY FEATURES

- ✓ Direct heat and air jacket

- ✓ Infrared (IR) CO_2 sensor

- ✓ ULPA filter

- ✓ ISO Class 5 work zone

- ✓ ISOCIDE™ antimicrobial powder coating

- ✓ Validated 90˚C moist heat decontamination cycle

- ✓ FDA-listed, Class II, 510k exempt medical device

A. General Construction
  - External Dimensions (Width x Depth x Height)
    - 660 mm (26.0") x 660 mm (26.0") x 900 mm (35.4")
  - Internal Dimensions (Width x Depth x Height)
    - 505 mm (19.9") x 535 mm (21.1") x 633 mm (24.9")
  - Volume
    - 170 L (6.0 ft^3)
    - Working volume: approx. 98 L
  - Material
    - Main body: 1.2 mm (0.05") 18-gauge electro-galvanized steel with white oven-baked epoxy-polyester ISOCIDE™ antimicrobial powder-coated finish
    - Work Zone: Abrasion and corrosion-resistant 304 grade, 0.9 mm stainless steel with BA finish
  - Shelves
    - Material: 1.5 mm, grade 304 stainless steel shelves
    - 4 pcs. standard number of shelves
    - 11 kg/shelf (24.3 lbs./shelf) maximum load per shelf

B. Performance
  - Direct Heat and Air Jacket
    - Direct heat achieves precise heating through the 8 heaters located in 3 zones for rapid temperature recovery and improved temperature uniformity
    - Air jacket provides insulation of the chamber from ambient temperature fluctuations
    - Temperature control range: Ambient +7 to 60°C
    - Temperature uniformity: < ±0.5°C

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CELCULTURE®
CO₂ Incubator

- - Temperature accuracy: < ±0.1°C
    - Temperature recovery (after 30 seconds door opening): ≤5 minutes
- VentiFlow™ Forced Convection System
    - Blower fan circulates filtered air in the chamber thereby accelerating the humidifying process and improving CO_2, humidity and temperature uniformity
    - Humidity range is up to 95% using humidity pan
- Infrared (IR) CO_2 Sensor
    - Drift-free sensor that enhances CO_2 control and uniformity without being affected by temperature and pressure
    - Has auto-zeroing feature which eliminates the need for calibration
    - %CO_2 control range: 0-20%
    - %CO_2 accuracy: ±0.1%
    - %CO_2 recovery time (after 30 seconds door opening): ≤5 minutes
- SteriSafe™ ULPA Filtration System
    - Filters chamber air with 99.999% efficiency at 0.2 to 0.1 µm particle size
    - Maintains chamber air at ISO Class 5 cleanliness
- SwiftCon™ 90°C Moist Heat Decontamination Cycle
    - Effectively deactivates normally-resistant fungi, bacterial spore and vegetative cells validated independently and by the Health Protection Agency (HPA) in UK
    - Cycle completes within 15 hours leaving the chamber clean and dry at the end of the cycle
- 0.2 µm Gas Inlet Filter
    - Removes impurities and contaminants from gas before it enters the chamber

C. Control Panel and Electrical

- SmartSense™ Microcontroller Interface
    - Four-line LCD display
    - Intelligent data and event logger records all incubator parameters for on-screen recall
    - 2 MB built-in flash memory guarantees long-term storage of data
    - With one-touch decontamination button
    - Has user-configurable audible and visual alarms
    - Equipped with automatic and manual reset thermostat for over-temperature protection
- Electrical Requirements
    - Power rating: 220-240 VAC, 50/60 Hz, 1 Ø
    - Nominal Power at 37°C: 42.2 W
    - Maximum Power Consumption: 1008.9 W

D. Available Options and Accessories

- - Humidity display
    - CO_2 backup
    - 2-stage gas regulator for CO_2
    - Analog output
    - Sealed inner door kit with 4 glass doors
    - Inner door shelving kit (4 sets)
    - Support stand with roller base
    - 200 mm (8.0") floor stand with adjustable feet
    - 700 mm (27.6") floor stand with casters
    - Extra stainless steel shelves
    - Stacking kit (standard accessory)
- - Electronic gas analyzer
    - Chart recorder
    - Esco Voyager® Software Kit

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