Technical Specification for Carbon-di-oxide incubator

Full sized CO2 Incubator, Refrigerated 170 liter 6.0 cu.ft. capacity with LCD display with on board 72 hrs data logging.

Direct heat.

Cooling system using peltier cooling unit to culture cells at or below ambient temperatures

Seamless Chamber

IR co2 sensor with automatic auto-zero programmable function.

25mm access port.

Perforated shelving.

Sealed inner Glass door.

RS-232 Communication ports, stackable up to 2 units high

Large volume humidification pan with dedicated independent heater

HEPA filtration of gas supply inlets

4 position shelving rack with 4 shelves

Temperature Management: Range: 4º C above ambient to 50º C, Control: ±0.1 º C

Stability ± 0.1 º C, uniformity less than or equal to 0.4 º C

CO2 gas management

Range: 0.2 to 20%, control +/- 0.1 %

Stability +/- 0.2%, uniformity +/- 0.1%

Recovery: (90% set point) 0.7% / minute

Connections: 6mm tubing, gas service pressure 0.35bar/ 5 PSI

Reservoir: removable SS pan, volume, 2.5lts, RH

Controller:

72 Hour Continuous data logging of temperature, alarms, door openings and CO2

Password protection for secure programmable settings and alarm set points

Electrical: 220 - 240 volts, 50/60 Hz.

Power: 500 W, power with high temperature 1000 W

Consumption to 37 deg C; < 0.08 KWH

NOTE: 1. The item should be delivered to Madras Research Centre of CMFRI., Chennai, Tamil Nadu

2. The Tender should be submitted in two bid system as “Technical bid” and “Financial bid” separately.