



### **Heart Lung Machine**

Heart Lung Machine is microcontroller based Demo. Type Trainer Kit Heart Lung (Cardiopulmonary) Bypass for Surgery. A cardiopulmonary bypass machine (CBM) is commonly known as a heart-lung bypass machine. It is a device that does the work of providing blood (and oxygen) to the body when the heart is stopped for a surgical procedure.

This model with Reservoir, Oxygenator, Inffulant Pump, Blood (Parasitic) Pump, Heater, 1000ML two Blood Tank, Heater 250W 500ML with control & indication, This is Demonstration type unit with all accessories. Dummy Blood & Dummy Inffulant. Microcontroller based system with LCD Display 16X2, Key Board Set, UP, Down, Enter. Indication High, Low, Blood Bubble & Blood Leak Detector. Temperature & Blood Pump Control. Temperature Controller 0 to 400C using PT100 sensor.

### **Study on Heart Lung Machine**

Study of Heart Lung Machine. Study of Reservoir & Oxygenator. Study of Temperature Control & PT100 sensor. Study of Blood Pump & Flow rate. Study of Blood Bubble Detector & Blood Leak Detector.

### **The Instrument with**

Reservoir, Oxygenator, Blood Tank -2, Heater, Parasitic Pump (Blood Pump), Inffulant Pump, Blood Bubble & Blood Leak Detector, Display Board, Pt100 S ensor, Pipe set-8, Micro-control unit & etc.

Operating Manual with working of instrument, operating & installation procedure, Block diagrams, connection diagrams, Electrodes placement, Standard signals & actual output signal, Calculations, Tables, Trouble shooting, Experiments list,

Note: Specifications are subject to change.

