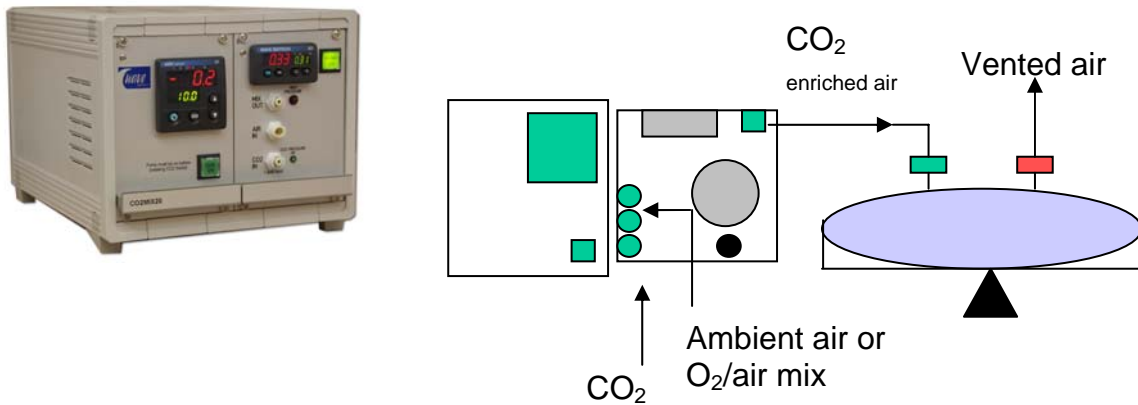


CO2MIX20 CO₂/air Aeration Controller

The CO2MIX20 is a SYSTEM20/50 *Wave Bioreactor*[®] component. It is used to inflate and ventilate the *Cellbag*[®] disposable bioreactors with air containing any desired CO₂ concentration. CO₂ from a pipeline or cylinder is connected to the CO2MIX20, which has a precision regulator to adjust gas pressure. Air is drawn from ambient by an internal pump and mixed with the CO₂. A CO₂ sensor measures the CO₂ concentration and controls it to any user-specified value from 0 to 15%. The CO₂ conditioned air is pumped into the headspace of the *Cellbag*[®] to maintain bag pressure, and to provide oxygen and carbon dioxide for ventilation and pH control.



Performance:

Flowrate to 0.5 liters/min.
 Internal airpump with overpressure limit
 Mass flow based air flow controller with digital readout.
 CO₂ pressure regulator.
 0 to 15% CO₂ in air. ±0.38% to 7.5% CO₂ (±0.75% to 15% CO₂)
 Electronic low-drift NDIR CO₂ sensor.
 PID feedback control.
 MODBUS RS-485 communications port.

Dimensions:

320mm x 200mm x 170mm (12.6 in x 7.9 in x 6.7 in)

Weight:

2.7Kg (6 lb)

Power:

Packaged in SRACK cabinet with integral power supply.
 Requires 110/220 VAC 2 Amp.
 Requires external 100% CO₂ supply (15psig)

Options:

Optional packaging in RACK20, 19" instrument rack (requires 2 bays)
 PC monitor interface (PCDAQ/S)
 Country-specific power cord