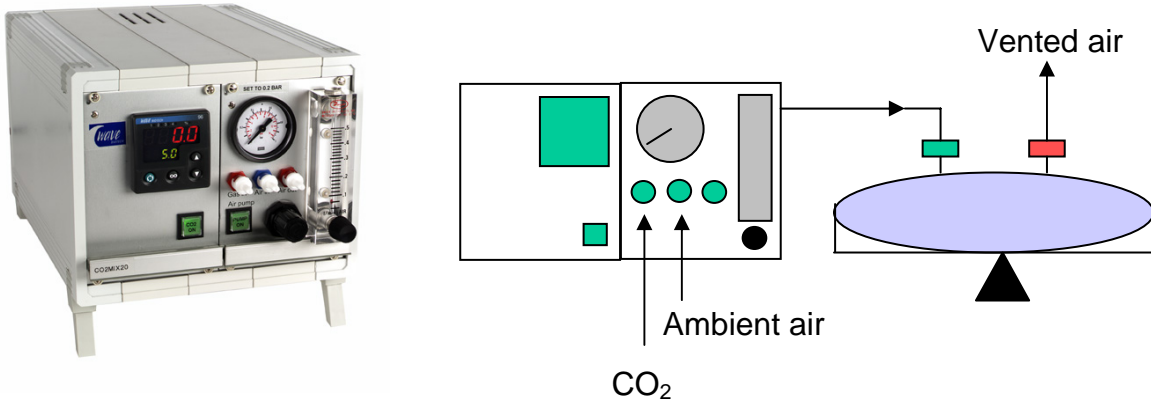


## CO2MIX20-R CO<sub>2</sub>/air Aeration Controller

The CO2MIX20-R (rotameter version) is a SYSTEM20/50 *Wave Bioreactor*<sup>®</sup> component. It is used to inflate and ventilate the *Cellbag*<sup>®</sup> disposable bioreactors with air containing any desired CO<sub>2</sub> concentration. CO<sub>2</sub> 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 CO<sub>2</sub>. A CO<sub>2</sub> sensor measures the CO<sub>2</sub> concentration and controls it to any user-specified value from 0 to 15%. The CO<sub>2</sub> conditioned air is pumped into the headspace of the *Cellbag*<sup>®</sup> 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  
 Air flowmeter.  
 CO<sub>2</sub> pressure regulator.  
 0 to 15% CO<sub>2</sub> in air.  $\pm 0.38\%$  to 7.5% CO<sub>2</sub> ( $\pm 0.75\%$  to 15% CO<sub>2</sub>)  
 Electronic low-drift NDIR CO<sub>2</sub> 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% CO<sub>2</sub> supply (15psig)

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