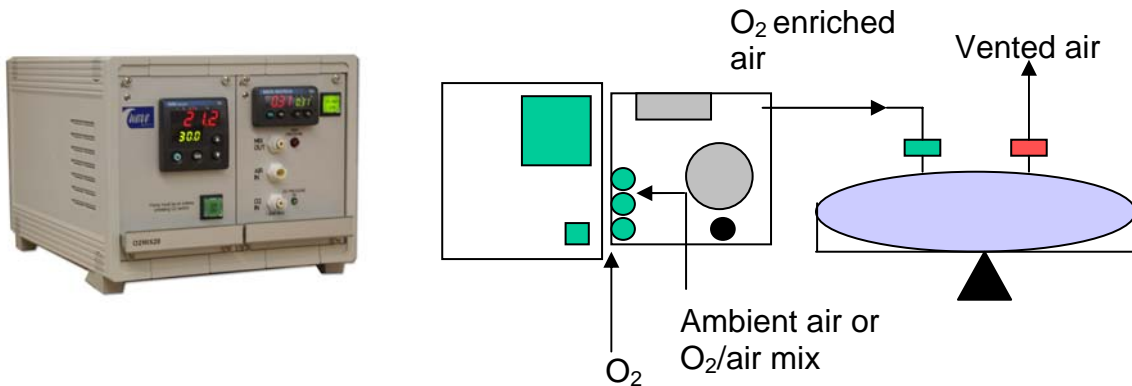


## O2MIX20 Oxygen/air Aeration Controller

The O2MIX20 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 O<sub>2</sub> concentration. O<sub>2</sub> gas is connected to the O2MIX20, which has a precision regulator to adjust gas pressure. Air is drawn from ambient by an internal pump and mixed with the O<sub>2</sub>. A zirconium-oxide O<sub>2</sub> sensor measures the O<sub>2</sub> concentration and controls it to any user-specified value from 21% (air) to 50%. The O<sub>2</sub> conditioned air is pumped into the headspace of the *Cellbag*<sup>®</sup> to maintain bag pressure, and provide enhanced oxygenation capability for increased growth and productivity over aeration with air alone. To eliminate the need for purchased oxygen, use the O2MIX20 with Wave Biotech O2GEN, oxygen generator.



<b>Performance:</b>	Flowrate to 0.5 liters/min. <i>Note: flow range up to 1.0 liter/minute for fast fill operation.</i> Internal airpump with overpressure limit at 0.007 bar (3 inches H <sub>2</sub> O). Mass flow controller with digital readout. O <sub>2</sub> pressure regulator. 21 to 50% O <sub>2</sub> . +/- 0.6% to 40% O <sub>2</sub> (+/- 1.0% to 50% O <sub>2</sub> ). Long-life (10yr+) zirconium oxide O <sub>2</sub> sensor. PID feedback control. MODBUS RS-485 communications port.
<b>Dimensions:</b>	320mm x 200mm x 170mm (12.6 in x 7.9 in x 6.7 in)
<b>Weight:</b>	2.7Kg (6 lb)
<b>Power:</b>	Packaged in SRACK cabinet with integral power supply. Requires 110/220 VAC 1 Amp. Requires external O <sub>2</sub> supply (15psig) or use with O2GEN
<b>Options:</b>	Optional packaging in 19" instrument rack (requires 2 bays) PC monitor interface (PCDAQ) Country-specific power cord