



Cellbox Labs industrial Organ on Chip technology simplifies the adoption of organ-on-chip advanced platform for drug discovery and disease research, streamlining workflows while saving time and reducing cost. With software-controlled flow, temperature, and imaging, Cellbox Labs systems enable researchers to design tissue models and a wide variety of cell types for custom models and applications including host and microbiota interaction.

| System type                        | Benchtop  |   |
|------------------------------------|---|---|
| Number of manifolds                | 2   |   |
| Number of units/organs             | 8   |   |
| Perfusion                          | Pumping<br>Control<br>Flow range<br>Flow sensor type<br>Flow sensor principle<br>Flow measurement error | Piezoelectric air pressure system<br>Every channel individually<br>0.5-1000 $\mu\text{l}/\text{min}$<br>Integrated for each channel<br>Thermal anemometry<br>0.5% |
| Bright-field microscopy            | Image<br>Field of view<br>Light source<br>Frames<br>Number of images per channel                        | Monochrome<br>1.9 x 1.4 mm<br>LED<br>57 fps<br>10 for top & 10 for bottom   |
| Temperature                        | Range<br>Uniformity<br>Control  | 30 to 60 $^{\circ}\text{C}$<br>$\pm 0.25$ $^{\circ}\text{C}$<br>Individually per manifold   |
| Environmental control              | Individually per manifold<br>Top channel<br>Bottom channel  | Normoxic, hypoxic<br>Normoxic, hypoxic  |
| Instrument control computer        | Processor<br>RAM<br>SSD<br>Operating system   | Intel i5 or i7<br>16 GB<br>512 GB<br>Windows 11 Pro   |
| Connections                        | HDMI, 2 x USB A, Ethernet   |   |
| Gas input port for top channels    | 6 mm push fit   |   |
| Gas input port for bottom channels | 6 mm push fit   |   |
| Dimensions                         | 470 x 470 x 470 mm  |   |
| Power requirements                 | 100 VAC to 240 VAC 50/60 Hz   |   |