



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