

PERIFUSION SYSTEM

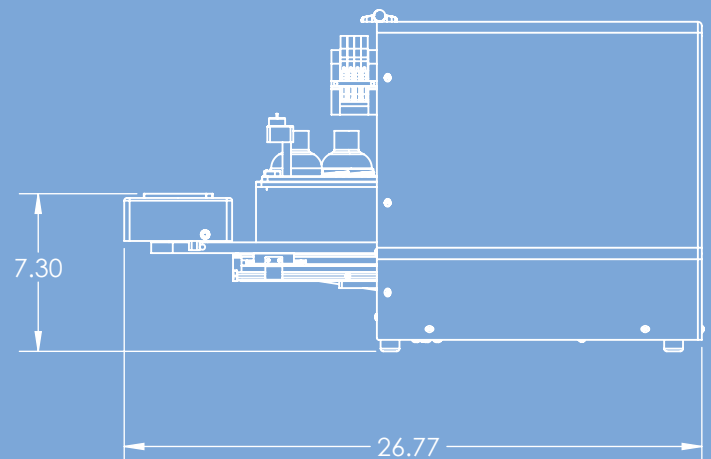
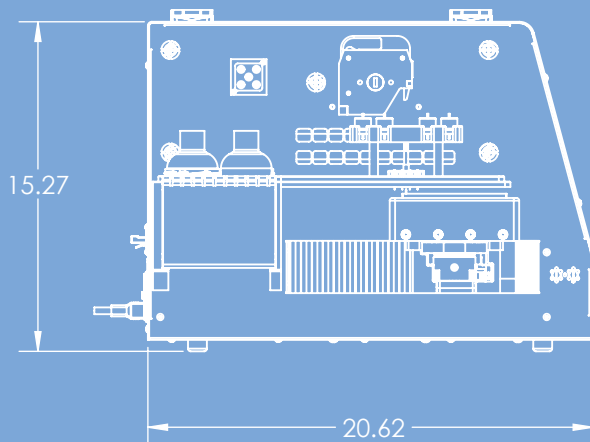
The PERI-Lite Perifusion System is used to perform in-vitro testing of islets of Langerhans.



* Tablet not included



COMMITTED TO THE CURE.





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D I A B E T E S

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The **PERI-Lite** Perfusion System is used to perform in-vitro testing of islets of Langerhans. These cells act as natural sensors of glucose in the pancreas. We have developed an **entry level** Perfusion System which enables a group of islets to be bathed with different solutions containing varying concentrations of glucose and/or secretagogues in a controlled temperature environment.

The perfusing fluid is pushed by a peristaltic pump through a sample container with the islets, and the perfusate is collected in a 96 well plate for further analysis. The well plate moves automatically accordingly to the number of sample containers in use and the preset sampling rate. The system can accommodate up to **four** sample containers in parallel.

FEATURES + UPDATES:

- Ability to use **4** different input source solutions
- Ability to run **1 solution at any given time**
- All-new intuitive user interface

BENEFITS + FEATURES:

- Designed to perform in-vitro testing of islets of Langerhans
- **4** independent perfusion chambers hold 20 to 100 islets
- Supports standard or deep 96-well-plates
- Peristaltic pump for calibrated and equal flow rate on all **4** chambers
- Incubator maintains 37°C +/- 1°C across all perfusion chambers
- Run controlled and repeatable perfusion experiments under programmable conditions
- Patented microfluidic manifold supports up to **4** input solutions x 1 output channel.
- Intuitive **software** allows for powerful multi-parameter protocol creation, experiment execution, report generation, and guided system maintenance

Part Numbers	PERI-LITE-115/230
Max. No. of Samples per Assay	4
Collection Tray	Standard or Deep 96-well plate
Flow rate range	0 to 450 µL/min (+/- 10 µL/min)
Temperature range	Room Temperature to 50 °C (122 °F)
Temperature sensor	Type T Thermocouple (+/- 1.0 °C)
Power supply	Voltage and frequency: AC 100 to 120V/220 to 240V +/- 10%, 50/60 Hz Required power capacity: 5A (100 to 120V) / 3A (220 to 240V)
Power consumption	Approx. 575W
Operating temperature	5 to 40 °C (41 to 104 °F)
Operating humidity	35 to 80% (no condensation)
Dimensions	W x D x H: 52.4 cm x 68.0 cm x 38.8 cm (20.62" x 26.77" x 15.27")
Weight	22.9 kg (50.5 lbs)
Packed dimensions	W x D x H: 121.9" x 101.6 cm x 76.2 cm (48" x 40" x 30")
Packed weight	44.7 kg (98.5 lbs)
Included items	4 perfusion chambers, 5 dispensing nozzles, cell loading rack, tubing set