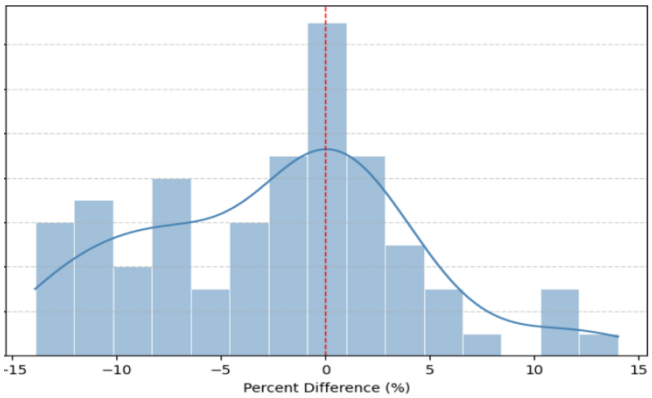
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Liquid Control Module

Specifications:

- 4 x input and 4 x output peristaltic pumps,
- Individual culture flask flow rate setting,
- Enables: Turbidostat, Chemostat, Morbidostat, and pH Control experiments.



Pump-to-pump variability w.r.t. the average flow rate.

Parameter	Value	Unit
Operating temperature	0 – 40	°C
Minimum dispensing volume	30	µL
Tubing	8 pieces of 85 cm, 1 mm ID, 3 mm OD, Innovaprene P60	
Tubing compatibility	Aqueous media, buffers, dilute acids/bases	
Max flow rate (input pumps)	3	ml/min
Max flow rate (output pumps)	5	ml/min
Long-term flow rate variation*	<5%	% initial rate
Priming volume	0.67	ml per pump
Module dimensions (W x H x D)	29 x 9 x 30	cm
Module weight	2.1	kg
Pump lifetime	>2000	hours

* Measured after 11 weeks; pumps operating 50% of the time.