

LB Technical specifications

	Small	Medium	Liquid-Liquid Medium	Large	Liquid-Liquid High Compression	High Compression	Alternate
Surface area (cm ²)	98	273	269(197*)	841	580(423*)	587	586 (x2**)
Trough top inner dimensions (L x W x H mm)	195 x 50 x 4	364 x 75 x 4	364 x 74 x 7	580 x 145 x 4	784 x 74 x 7	782 x 75 x 5	782 x 75 x 5
			(364 x 54 x 10*)		(784 x 54 x 10*)		(x2**)
Maximum compression ratio	5.2	10.8	10.8	18	24.7	24.7	3.9
Barrier speed (mm/min)	0.1...270	0.1...270	0.1...270	0.1...270	0.1...270	0.1...270	0.1...270
Balance measuring range (mN/m)	0...300	0...300	0...300	0...300	0...300	0...300	0...300
Maximum balance load (g)	1	1	1	1	1	1	1
Balance resolution (µN/m)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Langmuir trough top	•	•	–	•	•	•	–
Total subphase volume (mL)	39	109	–	336	406 (212*)	293	–
Langmuir-Blodgett trough top	•	•	•	•	–	–	•
Total subphase volume (mL)	57	176	450	578	–	–	1400
Dipping well dimensions	20 x 30 x 30	20 x 56 x 60	20 x 54 x 60	20 x 110 x	–	–	Half a circle, radius 75; depth 74
(L x W x H mm)				110			
Maximum sample size (T x W x H mm)	3 x 26 x 26	3 x 52 x 56	3 x 50 x 56	3 x 106 x 106	–	–	3 x 30 x 50 (min height 30 mm)
	(1 inch)	(2 inches)		(4 inches)			
Dipping speed (mm/min)	0.1...108	0.1...108	0.1...108	0.1...108	–	–	0.1...108
Upright microscopy trough top	•	–	–	–	–	–	–
Inverted microscopy trough top	–	•	–	–	–	–	–
Ribbon barrier trough top	–	•	–	–	–	–	–
Compatible with							
KSV NIMA PM-IRRAS	•	•	–	•	–	•	–
KSV NIMA ISR	–	–	–	–	•	•	–
KSV NIMA MicroBAM	–	•	–	•	–	•	•
KSV NIMA SPOT	–	•	•	•	–	•	–

¹ The Liquid-Liquid Trough is deeper than a standard trough as this allows for the two liquid phases. The value in the brackets corresponds to confinement of the lower phase (other value for the upper phase).

² The Alternate-Layer Deposition Trough is made of two separated compartments for creation of two monolayers simultaneously.

³ All trough tops labeled with the same frame name can be placed on the same frame, for modularity.

⁴ Need extension part for the serial port connections