

13 Technical data

13.1 Power supply

	Innova S44i incubated	Innova S44i incubated/refrigerated
Mains/power supply voltage	100 V ±10 %, 50 Hz/60 Hz 120 V ±10 %, 50 Hz/60 Hz 230 V ±10 %, 50 Hz/60 Hz	
Fuse	10 A	
Power consumption	1800 W	
Overvoltage category	II	
Degree of pollution	2	
Protection class according to IEC 61010-1	I	
Specifications for mains/ power cord	AC 250/16A 3G 1.5 mm ² appliance coupler C19 according IEC 60320-1	

13.2 Ambient conditions

Environment	For indoor use only
Ambient temperature	10 °C – 35 °C
Relative humidity	20 % – 80 %, non-condensing
Atmospheric pressure	79.5 kPa – 106 kPa Use up to a height of 2 000 m above sea level.

13.3 Noise level

Noise level	Innova S44i
	< 70 dB (A)

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Innova® S44i
English (EN)

13.4 Weight/dimensions**13.4.1 Device**

Device	Innova S44i incubated	Innova S44i incubated/ refrigerated
Weight	181.4 kg (400 lb)	188.2 kg (415 lb)
Outer dimensions of device		
Width	118.2 cm (46.5 in)	
Depth	86.9 cm (34.2 in)	
Height	63.1 cm (24.8 in)	
Interior dimensions		
Width	89.6 cm (35.3 in)	
Depth	71.9 cm (28.3 in)	
Height chamber bottom to chamber ceiling	57.5 cm (22.6 in)	
Height platform to chamber ceiling	43.7 cm (17.2 in)	
Height platform to photosynthetic light bank	40.6 cm (16.0 in)	
Height platform to incubation shelf	27.0 cm (10.6 in)	
Height incubation shelf to chamber ceiling	15.0 cm (5.9 in)	

13.4.2 Base

Base	Short base	Tall base
Weight	16.8 kg (37.0 lb)	37.7 kg (83.0 lb)
Width	118.2 cm (46.5 in)	
Depth	73.7 cm (29.0 in)	
Depth with spacers	83.8 cm (33.0 in)	
Height	10.5 cm (4.1 in)	30.7 cm (12.1 in)

13.4.3 Platform

Platform	
Weight	10.0 kg (22.0 lb)
Width	76.2 cm (30.0 in)
Depth	62.0 cm (24.4 in)
Height	0.8 cm (0.3 in)

13.5 Material

	Material
Device	Outer housing: Powder coated carbon steel Chamber: Powder coated stainless steel Chamber bottom: ABS polycarbonate blend Door metal panel: Powder coated stainless steel Door window: Double-pane thermal glass
Base	Cast aluminum with polyester powder coating
Platform	Aluminum, anodized

13.6 Stacking dimensions

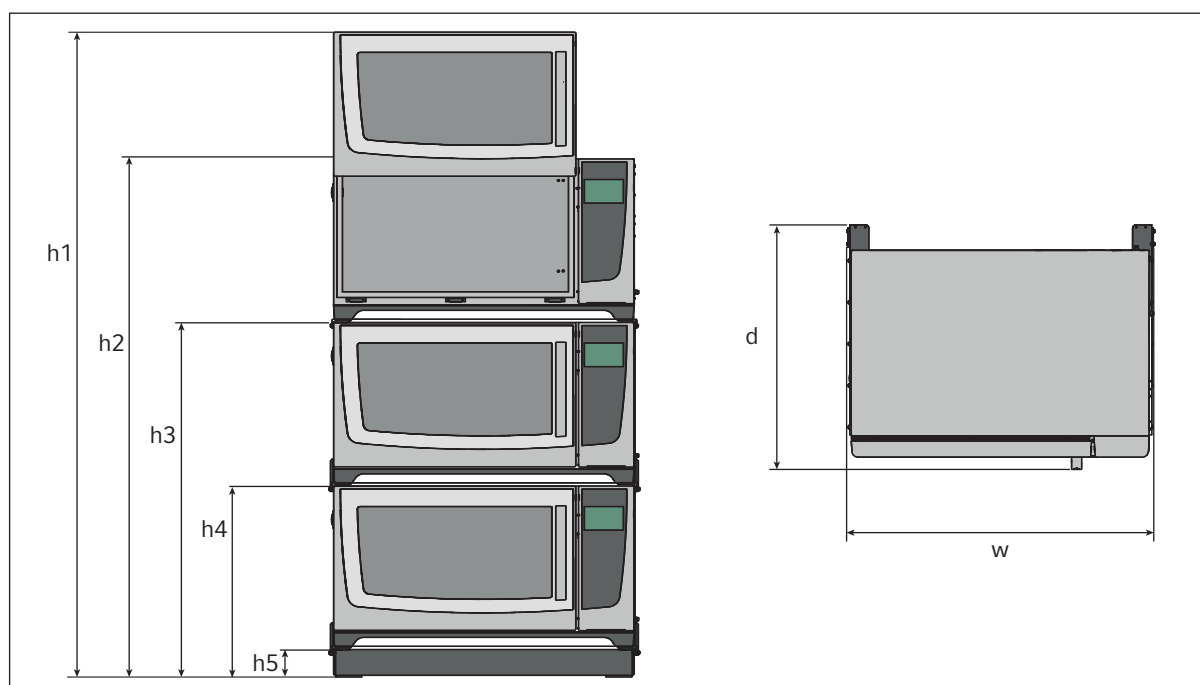


Fig. 13-1: Stacking dimensions with short positioning base

Height					Depth	Width
h1	h2	h3	h4	h5	d	w
254.5 cm (100.2 in)	203.7 cm (80.2 in)	139.4 cm (54.9 in)	73.6 cm (29.0 in)	10.5 cm (4.1 in)	95.8 cm (37.7 in)	118.2 cm (46.5 in)

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Innova® S44i
English (EN)

13.7 Interfaces

USB	USB 2.0
Ethernet	Ethernet 100 MBit/s Exclusively for the connection to VisioNize Lab Suite

13.8 Application parameters

The following specifications assume a maximum load of 45.5 kg (100 lb), including platforms, clamps, glassware and contents.

13.8.1 Agitation

	Orbit 2.5 cm (1 in)	Orbit 5.1 cm (2 in)
Speed	20 rpm – 400 rpm	20 rpm – 300 rpm
	The speed can be set in increments of 1 rpm	
Control accuracy	±0.5 rpm	
Innova S44i stacked on Innova 44/44R	2 devices stacked: 20 rpm – 300 rpm 3 devices stacked: 20 rpm – 250 rpm	

13.8.2 Load

	Orbit 2.5 cm (1 in)	Orbit 5.1 cm (2 in)
Maximum load (including platform, clamps, glassware and contents)	45.5 kg (100 lb)	
Maximum platform load	35.4 kg (78 lb)	

13.8.3 Temperature

Temperature	Innova S44i incubated	Innova S44i incubated/ refrigerated
Minimum	10 °C above ambient temperature	20 °C below ambient temperature (minimum 4 °C)
Maximum	80 °C	
Control accuracy	±0.1 °C at 37 °C, ± 0.5 °C over the entire temperature range	
Uniformity	±0.25 °C at 37 °C and 150 rpm	
Indication	Displayed in increments of 0.1 °C	