

## HERACELL VIOS 160i

Name	Unit	Value
<b>Mechanical</b>		
Outer dimensions (W x H x D)	mm	637 x 905 x 790 (25.08 x 35.63 x 31.10 inch)
Inner dimensions (W x H x D)	mm	470 x 607 x 576 (18.50 x 23.90 x 22.68 inch)
Inner space volume, of which useable volume	l l	approx. 165 approx. 100
Inserts (B x T)	mm	423 x 465 (16.65 x 18.31 inch)
Quantity of components delivered	pcs.	3
Quantity, maximum	pcs.	11
Surface loading capacity, maximum	kg	10 per insert
Overall device loading capacity, maximum	kg	30
Weight	kg	83
Weight, without accessories	kg	78.4
<b>Thermal</b>		
Thermal safety features to DIN 12880:2007-05		Class 3.1 (Overtemperature controller, providing alarming function upon excessive temperature condition)
Ambient temperature range	°C	+18...34
Ambient temperature for stacked devices	°C	+18...28
Temperature control range, incubation operation	°C	RT + 3...55
Temperature deviation from set value, over time (DIN 12880, part 2) at 37 °C	°C	± 0.1
Temperature deviation from set value, spatial (DIN 12880, part 2) at 37 °C *1)	°C	<= ± 0.3
Duration of the auto-start routine: to 37 °C Ambient temperature 20 °C	h	5...10
Heat transfer to environment: at 37 °C	kWh/h	0.06
during steri-run decontamination	kWh/h	0.59
<b>Humidity</b>		
Water qualities		Electrical resistance: 50 kOhmcm to 1 MOhmcm Conductivity: 1 to 20 µS/cm
Capacities: Incubation operation	l	max. 3 / min 0.5

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Constant humidity at 37 °C (high humidity mode)	%rH	approx. 93
Constant humidity at 37 °C (low humidity mode)	%rH	approx. 90
<b>Others</b>		
Sound pressure level (DIN 45 635, part 1)	dB(A)	< 50
Relative ambient humidity	%rH	max. 80
Altitude of site	m above sea level	max. 2000

\*1) determined on the basis of DIN 12880 for devices with standard feature set. See calibration instructions for detailed information

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Name	Unit	Value
<b>CO<sub>2</sub> gas supply system</b>		
Gas purity	%	min. 99.5 or med. quality
Primary pressure	bar	min. 0.8 - max. 1 (11.6-14.5 psi)
Measurement and control range	Vol -%	0...20
Control deviation over time	Vol -%	± 0.1
<b>CO<sub>2</sub> measuring cell</b>		
Accuracy at 37 °C and 5% CO <sub>2</sub>	%CO <sub>2</sub>	± 0.3
<b>O<sub>2</sub> gas supply system</b>		
Gas purity	%	min. 99.5 or med. quality
Primary pressure	bar	min. 0.8 - max. 1 (11.6-14.5 psi)
Measurement and control range	Vol -%	1... 21 or 5...90
Control deviation over time	Vol -%	± 0.2
<b>O<sub>2</sub> measuring cell</b>		
Accuracy at 37 °C and 21% O <sub>2</sub>	%O <sub>2</sub>	± 0.5 (option: 1.....21% O <sub>2</sub> ) ± 2,0 (option: 5.....90% O <sub>2</sub> )
<b>Electrical</b>		
Rated voltage	V	1/N/PE 230 V, AC (± 10%) 1/N/PE 220 V, AC (± 10%) 1/N/PE 120 V, AC (± 10%) 1/N/PE 100 V, AC (± 10%)
Rated frequency	Hz	50/60
Degree of protection (IEC 60529)		IP 20
Protection class		I
Overvoltage category (EN 61010)		II
Pollution degree (EN 61010)		2
Rated current	A	<b>230 V:</b> Decontamination: 4.6 Incubation: 2.4 <b>220 V:</b> Decontamination: 4.4 Incubation: 2.3 <b>120 V:</b> Decontamination: 8.3; Incubation: 4.6 <b>100 V:</b> Decontamination: 7.2; Incubation: 3.9
Circuit breaker		16 A

Name	Unit	Value
Rated power	kW	<b>230 V:</b> Decontamination: 1.06 Incubation: 0.56 <b>220 V:</b> Decontamination: 0.97 Incubation: 0.51 <b>120 V:</b> Decontamination: 1.01 Incubation: 0.55 <b>100 V:</b> Decontamination: 0.72 Incubation: 0.39
EMV class		B