

Helios Site Requirements

DIMENSIONS	Width cm (in)	Height cm (in)	Depth cm (in)	Weight kg (lb)
Shipping crate	107 (42)	143 (56)	158 (62)	462 (1,019)
Components box	107 (42)	105 (41)	125 (49)	170 (375)
Helios™ instrument	103 (41)	132 (52)	87 (35)	320 (705)
Chiller	38 (15)	64 (25)	67 (27)	81 (178)
Autosampler	39 (16)	24 (10)	36 (14)	20 (44)
Computer	20 (8)	46 (18)	58 (23)	35 (77)
LED monitor	61 (24)			

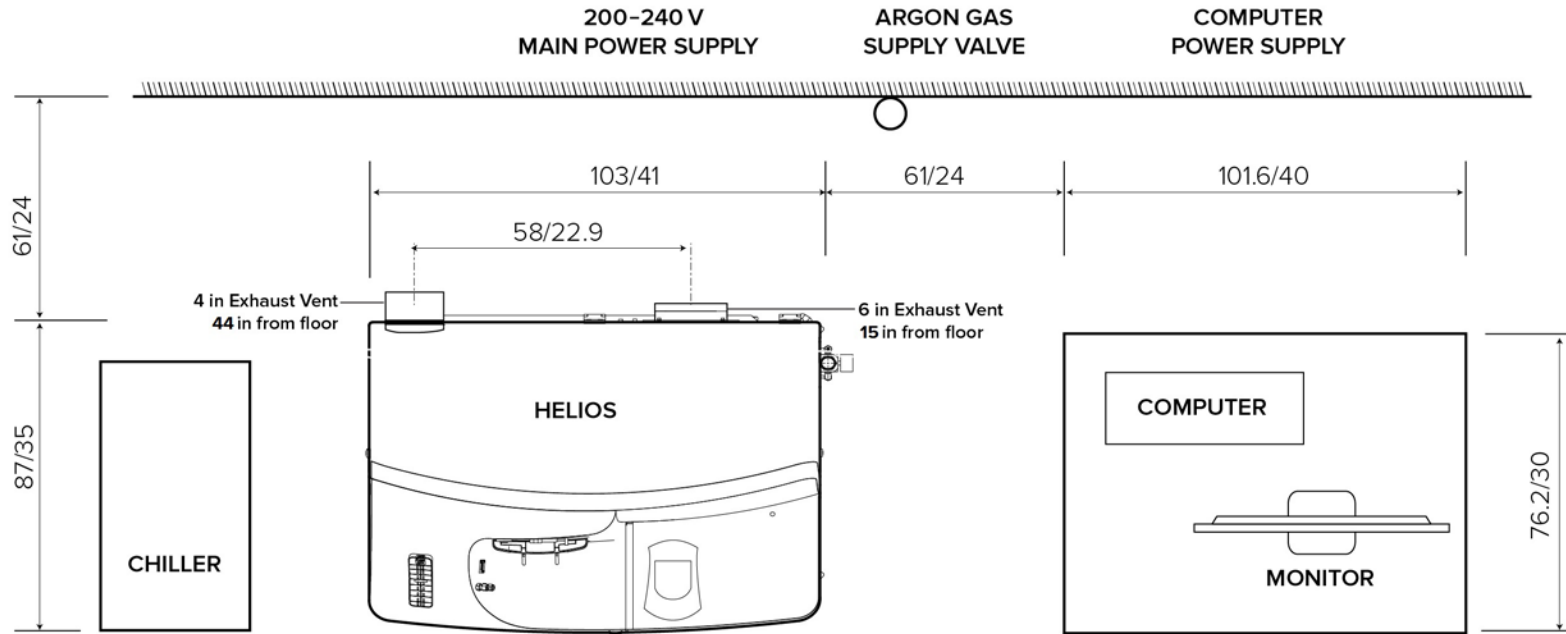
EXHAUST VENT	Hose Diameter mm (in)	Flow Rate L/sec (cfm)	Anemometer m/sec (ft/min)	Heat Vented out of Lab W (BTU/hr)
Torch box	100 (4)	70 ±10% (150)	9 (1,695)	200 (690)
System	150 (6)	210 ±10% (450)	11.5 (2,250)	2,800 (9,400)



ELECTRICAL SPECIFICATIONS	
Operating voltage	200/208/220/230/240 V AC
Peak current (per circuit)	30 A
Operating frequency	50 or 60 Hz ±1 Hz
Max allowable sag	5%
Max allowable swell	5%
Max supply voltage total distortion	5%
Max supply voltage distortion by single harmonics	3%
Phase (single or three)	Single/between 2 of the 3 phases
Plug type: North America (60 Hz connections)	NEMA L6-30R (250 V, 30 A)
Plug type: EU (50 Hz connections)	IP44 2P+E 32A

POWER	Consumption (VA)	Voltage (V AC)	Current A
Helios	2 x 4500	200/208/220/230/240	2 x 30
Chiller	2300	Powered through instrument	13
Autosampler (optional)	100	100–240	<1
Computer	1050	100–240	8
Monitor		110–230	<1
GAS	Purity	Pressure (psi)	Flow Rate (L/min)
Argon	≥99.996%	85 ±5	20
Impurities (ppm)			
Oxygen <5,	Nitrogen <20,	Hydrogen <1,	Water <4

Helios and Accessories: Footprint Diagram



Dimensions in cm/in

NOTE

- Use a regulator with a pressure range of 0–100 psi and a ¼ inch male Swagelok® termination.
- The Helios system causes a static pressure drop of 1.2 inches H₂O (200 Pa).
- Do not use an electronic pressure regulator or auto-switching valves because they may affect plasma stability and cause plasma loss.

For more details refer to the Helios Site Requirements Guide (PN 400252).

For technical support visit fluidigm.com/support.

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