Heal Force

HFsafe LC Series

Biological Safety Cabinet

Heal Force leads you to healthier life

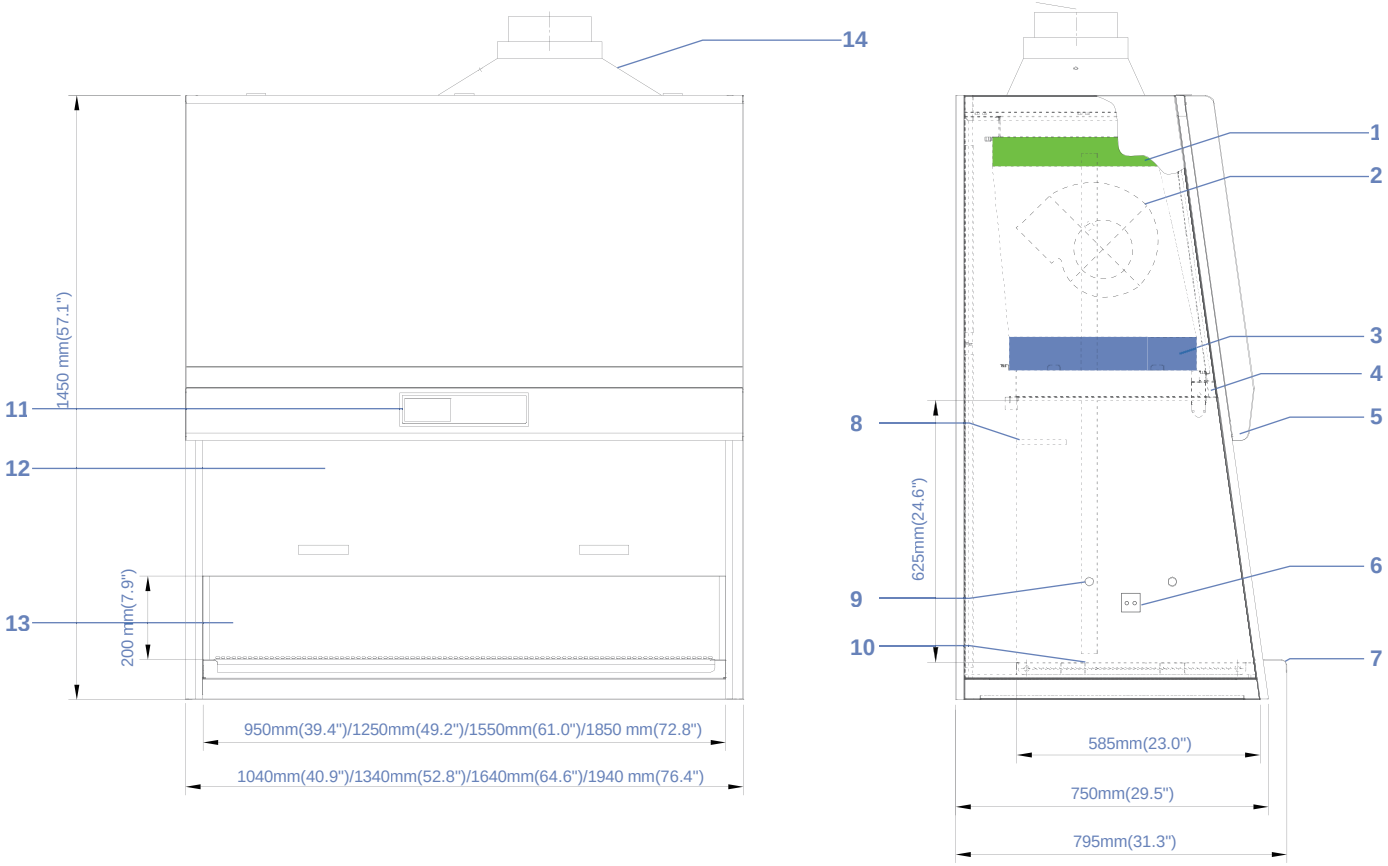
The next level of performance

HFsafe LC
Biosafety Cabinet

Product and Solution Overview

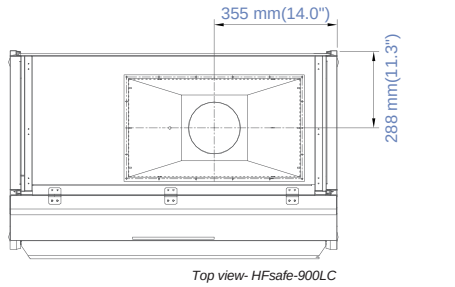
Heal Force HFsafe LC biosafety cabinets set the standard in quality, design, and innovation that comes from a heritage of over 25 years experience. At Heal Force we know how important it is to offer a high level of protection to operator, sample and environment with advanced technology. With an extensive track record of safety, reliability and performance, HFsafe LC cabinets make ideal investments for a wide range of applications including work with infectious agents that require Biosafety Level 1, 2 or 3 containment.

HFsafe LC Biological Safety Cabinet Technical Specification

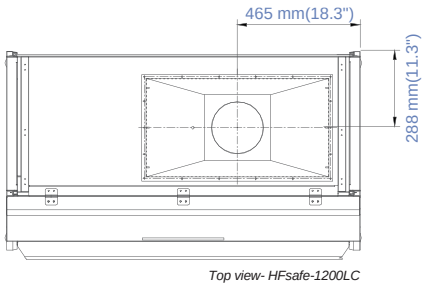


1.Exhaust filter
2.Blower.
3.Downflow filter
4.Standard UV light
5.Fluorescent light
6.Universal electical outlet (2 single outlets in work zone)
7.Stainless steel armrest
8.Downflow sensor
9.Gas /vacuum/water service fixture
10.Stainless steel single-piece work tray
11. Micro processor control system
12.Manual sliding sash
13.Single piece stainless steel back wall and side wall
14. Thimble exhaust collar (optional)

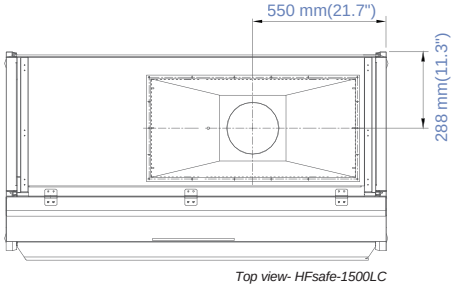
Optional Exhaust Collar Positions for Thimble-Ducting for HFsafe LC Models



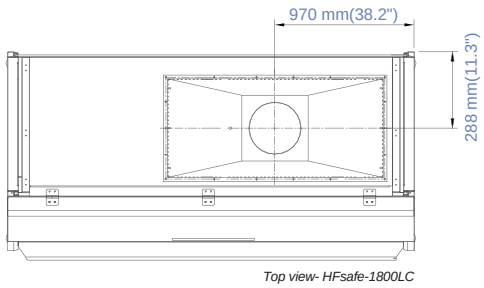
Top view- HFsafe-900LC



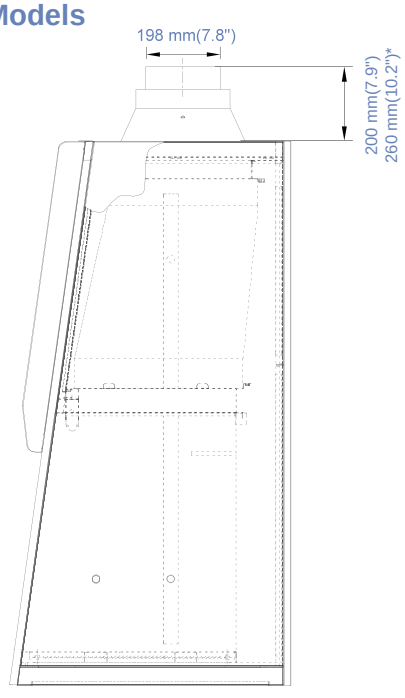
Top view- HFsafe-1200LC



Top view- HFsafe-1500LC



Top view- HFsafe-1800LC



*Applicable for opening exausting connection

General Specifications, HFsafe LC Biological Safety Cabinets (Class II Type A2)

Model	HFsafe-900LC	HFsafe-1200LC	HFsafe-1500LC	HFsafe-1800LC
Nominal Size	0.9 meters(3')	1.2 meters(4')	1.5 meters(5')	1.8 meters(6')
External Dimensions with Base Stand	1040×790×2130mm	1340×790×2130mm	1640×790×2130mm	1940×790×2130mm
(W×D×H)	40.9"×31.1"×83.9"	52.8"×31.1"×83.9"	64.6"×31.1"×83.9"	76.4"×31.1"×83.9"
Internal Work Area, Dimensions(W×D×H)	950×575×625mm	1250×575×625mm	1550×575×625mm	1850×575×625mm
	37.4"×22.6"×24.6"	49.2"×22.6"×24.6"	61.0"×22.6"×24.6"	72.8"×22.6"×24.6"
Internal Work Area,Space	0.54m^2(5.8 sq.ft)	0.72m^2(7.8 sq.ft)	0.9m^2(9.7 sq.ft)	1.08m^2(11.6 sq.ft)
Average Airflow Velocity *				
Inflow	0.53m/s(104.3fpm)	0.53m/s(104.3fpm)	0.53m/s(104.3fpm)	0.53m/s(104.3fpm)
Downflow	0.35m/s(68.9fpm)	0.35m/s(68.9fpm)	0.35m/s(68.9fpm)	0.35m/s(68.9fpm)
Airflow Volume				
Inflow	363m^3/h(213cfm)	477m^3/h(281cfm)	592m^3/h(348cfm)	706m^3/h(416cfm)
Downflow	658m^3/h(377cfm)	866m^3/h(510cfm)	1075m^3/h(633cfm)	1282m^3/h(755cfm)
Exhaust	363m^3/h(213cfm)	477m^3/h(281cfm)	592m^3/h(348cfm)	706m^3/h(416cfm)
ULPA Filter Typical Efficiency				
Downflow	Filters provide 99.9995% typical efficiency for particle size of 0.1 to 0.2 microns			
Exhaust	Filters provide 99.9995% typical efficiency for particle size of 0.1 to 0.2 microns			
Biosafety Protection Test				
Personnel Protection Test	KI-Discus containment and microbiological testing is performed			
Product Protection Test 1~8×10^6 (three times in succession)	≤5CFU	≤5CFU	≤5CFU	≤5CFU
Cross-contamination Test 1~8×10^6 (three times in succession)	≤2CFU	≤2CFU	≤2CFU	≤2CFU
Sound Emission (Typical)				
NSF/ANSI 49	<60dBA	<62dBA	<62dBA	<65dBA
EN 12469	<57dBA	<59dBA	<60dBA	<62dBA
Fluorescent Light Intensity	800~1200 Lux (74~112 foot candles)			
Excellent light distribution	Yes	Yes	Yes	Yes
RMS	≤2.3μm	≤2.3μm	≤2.3μm	≤2.3μm
Cabinet Construction				
Main Body	1.2mm(0.05") steel with white oven-baked epoxy-polyester			
Work Zone	1.5mm(0.06") stainless steel, type 304			
Side Walls	1.5mm(0.06") stainless steel, type 304			
Electrical sliding windows Option	Yes	Yes	Yes	Yes
Window material	Hardened/laminated safey glass			
Electrical				
Cabinet Full Load Amp(FLA)	2A	2A	4A	4A
Fuses	10A	10A	10A	10A
Cabinet Nominal Power	361W	452W	813W	850W
Optional Outlets FLA	5A	5A	5A	5A
Total Cabinet FLA	7A	7A	9A	9A
Power Supply*				
220V/50Hz	Yes	Yes	Yes	Yes
220V/60Hz	Yes	Yes	Yes	Yes
110V/60Hz	Yes	Yes	N/A	N/A
Net Weight				
Manual Type	120kg(264lbs)	225kg(496lbs)	280kg(617lbs)	320kg(705lbs)
Shipping Weight				
Manual Type	175kg(386lbs)	295kg(650lbs)	350kg(772lbs)	390kg(860lbs)
Shipping Dimensions Maximum(W×D×H)	1125×945×1717mm	1425×945×1717mm	1725×945×1717mm	2026×945×1717mm
	46.3"×37.2"×67.3"	56.1"×37.2"×67.3"	67.9"×37.2"×67.3"	79.8"×37.2"×67.3"
Shipping Volume, Maximum	1.81m^3(63.9cu.ft.)	2.30m^3(81.2cu.ft.)	2.79m^3(98.5cu.ft.)	3.27m^3(115.5cu.ft.)

* Please contact us for more optional power supply information