

Site Preparation Form

Product Name:	Thermo Scientific 1300 Series A2 BSC - 6 ft width, 10" work aperture	Item Description:	Class II, Type A2 Biological Safety Cabinet
Model #	1357/1387/1347/1377	Manufacturer	Thermo Fisher Scientific

A. CONSTRUCTION

Interior side and rear walls:				
1357/1387 Powder-coated cold rolled steel	<u>19</u>	gauge	<u>1</u>	mm
1347/1377 One-piece 304 stainless steel, No. 4 finish	<u>19</u>	gauge	<u>1</u>	mm
Exterior				
1357/1387 Powder-coated cold rolled steel	<u>19</u>	gauge	<u>1</u>	mm
1347/1377 Powder-coated cold rolled steel	<u>19</u>	gauge	<u>1</u>	mm
Worksurface				
1357/1387 304 stainless steel, No. 4 finish	<u>16</u>	gauge	<u>1.5</u>	mm
1347/1377 304 stainless steel, No. 4 finish	<u>16</u>	gauge	<u>1.5</u>	mm

B. ELECTRICAL POWER REQUIREMENTS

Electrical Specifications								
1357/1387	<u>120</u>	Volts	<u>60</u>	Hertz	<u>10</u>	Amps	<u>1</u>	# of Phases
1347/1377	<u>120</u>	Volts	<u>60</u>	Hertz	<u>10</u>	Amps	<u>1</u>	# of Phases
Power Consumption, Operational Mode:								
1357/1387	<u>400</u>	Watts	Heat Output:	<u>1,366</u>	BTU/Hr			
1347/1377	<u>400</u>			<u>1,366</u>				
Power Consumption, Reduced Flow Mode:								
1357/1387	<u>120</u>	Watts	Heat Output:	<u>410</u>	BTU/Hr			
1347/1377	<u>120</u>			<u>410</u>				
Motor type	<u>DC</u>							
GFI electrical receptacles	<u>Yes</u> Two GFI duplex located on rear wall							
Total number of receptacles / plugs required to operate cabinet.	<u>1</u>							
Length of line cord	<u>11</u>	Feet	<u>4</u>	inches				

C. EXHAUST REQUIREMENTS

Airflow Specifications, recirculating			
Face Velocity	<u>105</u>	FPM	
Window aperture	<u>10</u>	Inch	
Air Exhaust, non ducted	<u>517</u>	CFM	
Airflow Specifications, thimble ducted			
Air Exhaust	<u>672</u>	CFM	
Duct diameter	<u>8</u>	Inch	

* NSF/ANSI 49 requires the use of low-flow exhaust alarms for thimble ducted Class II, Type A2 BSCs.

D. SPATIAL REQUIREMENTS

Equipment exterior dimensions (inches):	<u>74.8</u>	Width	<u>31.4</u>	Depth	<u>61.8</u>	Height
Equipment "work area" (inches):	<u>70.9</u>	Width	<u>24.8</u>	Depth	<u>30.7</u>	Height
Equipment clearances for access or airflow (inches):	<u>6.0</u>	Top	<u>0</u>	Sides	<u>3.0</u>	Rear
Equipment weight (lbs):	<u>617</u>	Net	<u>694</u>	Shipping		

E. ALARM CONTACTS

Four contacts are available inside the electrical enclosure at the top of the cabinet marked for EXTERNAL FAN that signal when the cabinet is energized (blowers on or in reduced flow) or de-energized (blowers off).
PE - for ground

NO - for normally open
 NC - for normally closed
 C - for common

F. SERVICE CONNECTIONS

Clearances for standard side wall service connections (inches):

6.0	Left	6.0	Right
3.0	Left	3.0	Right

Standard service utility ports available:

Options for pre-plumbed connections to top, side or bottom of cabinet:

1357/1387	Right side wall p/n	1911367
	Left side wall p/n	1911370
1347/1377	Right side wall p/n	1911383
	Left side wall p/n	1911384

Options for service valves, all with 3/8" male pipe thread connection:

Standard Valves (for side connection only):

1911308	Combustible gas, 75 psi
1911309	Non-combustible gas, 80 psi
1911310	Vacuum valve, 75 psi
1911311	Water valve, 75 psi

Valves for pre-plumbed option (top or bottom connection):

1911304	Combustible gas, 75 psi
1911305	Non-combustible gas, 75 psi
1911306	Vacuum valve, 75 psi
1911307	Water valve, 80 psi

G. Accessories

Required

1911303	Adjustable height base stand
1911313	Armrest

Recommended

1911368	UV light
1911317	Thimble duct exhaust transition
191780	External exhaust alarm (for use with thimble duct)