

# Site Preparation Form

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

## A. CONSTRUCTION

Interior side and rear walls:

<b>1357/1387</b> Powder-coated cold rolled steel	<b>19</b> gauge	<b>1</b> mm
<b>1347/1377</b> One-piece 304 stainless steel, No. 4 finish	<b>19</b> gauge	<b>1</b> mm

Exterior

<b>1357/1387</b> Powder-coated cold rolled steel	<b>19</b> gauge	<b>1</b> mm
<b>1347/1377</b> Powder-coated cold rolled steel	<b>19</b> gauge	<b>1</b> mm

Worksurface

<b>1357/1387</b> 304 stainless steel, No. 4 finish	<b>16</b> gauge	<b>1.5</b> mm
<b>1347/1377</b> 304 stainless steel, No. 4 finish	<b>16</b> gauge	<b>1.5</b> mm

## B. ELECTRICAL POWER REQUIREMENTS

Electrical Specifications

<b>1357/1387</b>	<b>120</b> Volts	<b>60</b> Hertz	<b>10</b> Amps	<b>1</b> # of Phases
<b>1347/1377</b>	<b>120</b> Volts	<b>60</b> Hertz	<b>10</b> Amps	<b>1</b> # of Phases

Power Consumption, Operational Mode:

<b>1357/1387</b>	<b>400</b> Watts	Heat Output:	<b>1,366</b> BTU/Hr
<b>1347/1377</b>	<b>400</b> Watts		<b>1,366</b> BTU/Hr

Power Consumption, Reduced Flow Mode:

<b>1357/1387</b>	<b>120</b> Watts	Heat Output:	<b>410</b> BTU/Hr
<b>1347/1377</b>	<b>120</b> Watts		<b>410</b> BTU/Hr

Motor type

**DC**

GFI electrical receptacles

**Yes**

Two GFI duplex located on rear wall

Total number of receptacles / plugs required to operate cabinet.

**1**

Length of line cord

**11** Feet

**4** inches

## C. EXHAUST REQUIREMENTS

Airflow Specifications, recirculating

Face Velocity	<b>105</b> FPM
Window aperture	<b>10</b> Inch
Air Exhaust, non ducted	<b>517</b> CFM

Airflow Specifications, thimble ducted

Air Exhaust	<b>672</b> CFM
Duct diameter	<b>8</b> 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):

<b>74.8</b> Width	<b>31.4</b> Depth	<b>61.8</b> Height
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Equipment "work area" (inches):

<b>70.9</b> Width	<b>24.8</b> Depth	<b>30.7</b> Height
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Equipment clearances for access or airflow (inches):

<b>6.0</b> Top	<b>0</b> Sides	<b>3.0</b> Rear
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Equipment weight (lbs):

<b>617</b> Net	<b>694</b> Shipping
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## 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):

<b>6.0</b>	Left	<b>6.0</b>	Right
<b>3.0</b>	Left	<b>3.0</b>	Right

Standard service utility ports available:

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

<b>1357/1387</b>	Right side wall p/n	1911367
	Left side wall p/n	1911370
<b>1347/1377</b>	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):

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

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

<b>1911304</b>	Combustible gas, 75 psi
<b>1911305</b>	Non-combustible gas, 75 psi
<b>1911306</b>	Vacuum valve, 75 psi
<b>1911307</b>	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)