# Site Preparation Form

| | | | |
|---|---|---|---|
| Product Name: | **Thermo Scientific Herasafe KS Class II, Type A2 BSC** | Item Description: | **Class II, Type A2 Biological Safety Cabinet** |
| Model # | **Herasafe KS15** | Manufacturer | **Thermo Fisher Scientific** |
| Order # | **51022487** | | |

**A. CONSTRUCTION**

Interior side and rear walls:
316 stainless steel, No. 4 finish — **19** gauge — **1** mm
* side walls laminated safety glass

Exterior
Powder-coated cold rolled steel — **19** gauge — **1** mm

Worksurface
316 stainless steel, No. 4 finish — **16** gauge — **1.5** mm

**B. ELECTRICAL POWER REQUIREMENTS**

Electrical Specifications
**120** Volts **60** Hertz **8.7** Amps **1** # of Phases

Power Consumption, Operational Mode:
**275** Watts Heat Output: **939** BTU/Hr

Power Consumption, Reduced Flow Mode:
**70** Watts Heat Output: **239** BTU/Hr

Motor type **DC**

GFI electrical receptacles **Yes** Two GFI duplex located on side walls

Total number of receptacles / plugs required to operate cabinet. **1**

Length of line cord **9** Feet **6** inches

**C. EXHAUST REQUIREMENTS**

Airflow Specifications, recirculating

| | | |
|---|---|---|
| Face Velocity | **105** | FPM |
| Window aperture | **10** | Inch |
| Air Exhaust, non ducted | **361** | CFM |

Airflow Specifications, thimble ducted

| | | |
|---|---|---|
| Air Exhaust | **469** | CFM |
| Duct diameter | **8** | 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): | **63** | Width | **31.5** | Depth | **62.4** Height |
| Equipment "work area" (inches): | **59.1** | Width | **24.8** | Depth | **30.7** Height |
| Equipment clearances for access or airflow (inches): | **6.0** | Top | **0** | Sides | **0** Rear |
| Equipment weight (lbs): | **617** | Net | **694** | 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 |
| Standard service utility ports available: | **2** | Left | **2** | Right |

Options for 3 pre-plumbed connections to top or bottom of cabinet:

| | |
|---|---|
| Right rear wall taps p/n | 51900982 |
| Left rear wall taps p/n | 51900981 |
| Right and Left rear wall taps p/n | 51900984 |

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

| Standard Valves (for side connection only): | Valves for pre-plumed option (top or bottom connection): |
|---|---|
| **1911308** Combustible gas, 75 psi | **1911304** Combustible gas, 75 psi |
| **1911309** Non-combustible gas, 80 psi | **1911305** Non-combustible gas, 75 psi |
| **1911310** Vacuum valve, 75 psi | **1911306** Vacuum valve, 75 psi |
| **1911311** Water valve, 75 psi | **1911307** Water valve, 80 psi |

**G. Accessories / Options**

| **Required** | | **Recommended** | |
|---|---|---|---|
| 51900642 | Cross-beam UV light | 50073770 | Thimble duct exhaust transition |
| 50116444 | Adjustable height base stand, OR | 191780 | External exhaust alarm (for use with thimble duct) |
| 50119127 | Electrical adjustable height base stand | * see sales brochure for additional worktray configurations | |