



HALCO PRODUCTS COMPANY

100 N. Gordon Street - Elk Grove Village, IL 60007-1193
Tel: 847-956-1600 - Fax: 847-956-0595
E-Mail: Info@Halco-Products.com
Website: www.Halco-Products.com

HALCO
PRODUCT
INFORMATION

100.5000

BIOSAFETY LABORATORIES BSL 1 THRU 4

Who needs a BSL Lab?

Clinical, diagnostic, teaching, research, or production facilities are one of many field that utilize BSL's for their research.

Why build a BSL LAB?

These specialized containment facilities are used when indigenous or exotic agents are present and may cause serious or potentially lethal disease as a result of inhalation exposure.

What is BSL 1- 4 Classification?

- ◆ **BSL-1** is a standard containment Facility with limited access. This type of facility contains no disease causing agents and minimum of hazards.
- ◆ **BSL-2** introduces moderately hazardous pathogenic agents into the facility. Sharp agents and potentially hazardous aerosols can be present in this type of facility.
- ◆ **BSL-3** introduces working with exotic agents known to cause serious or potentially lethal illness.
- ◆ **BSL-4** introduces dangerous and exotic agents posing serious and life threatening illness.



What can Halco do for you?

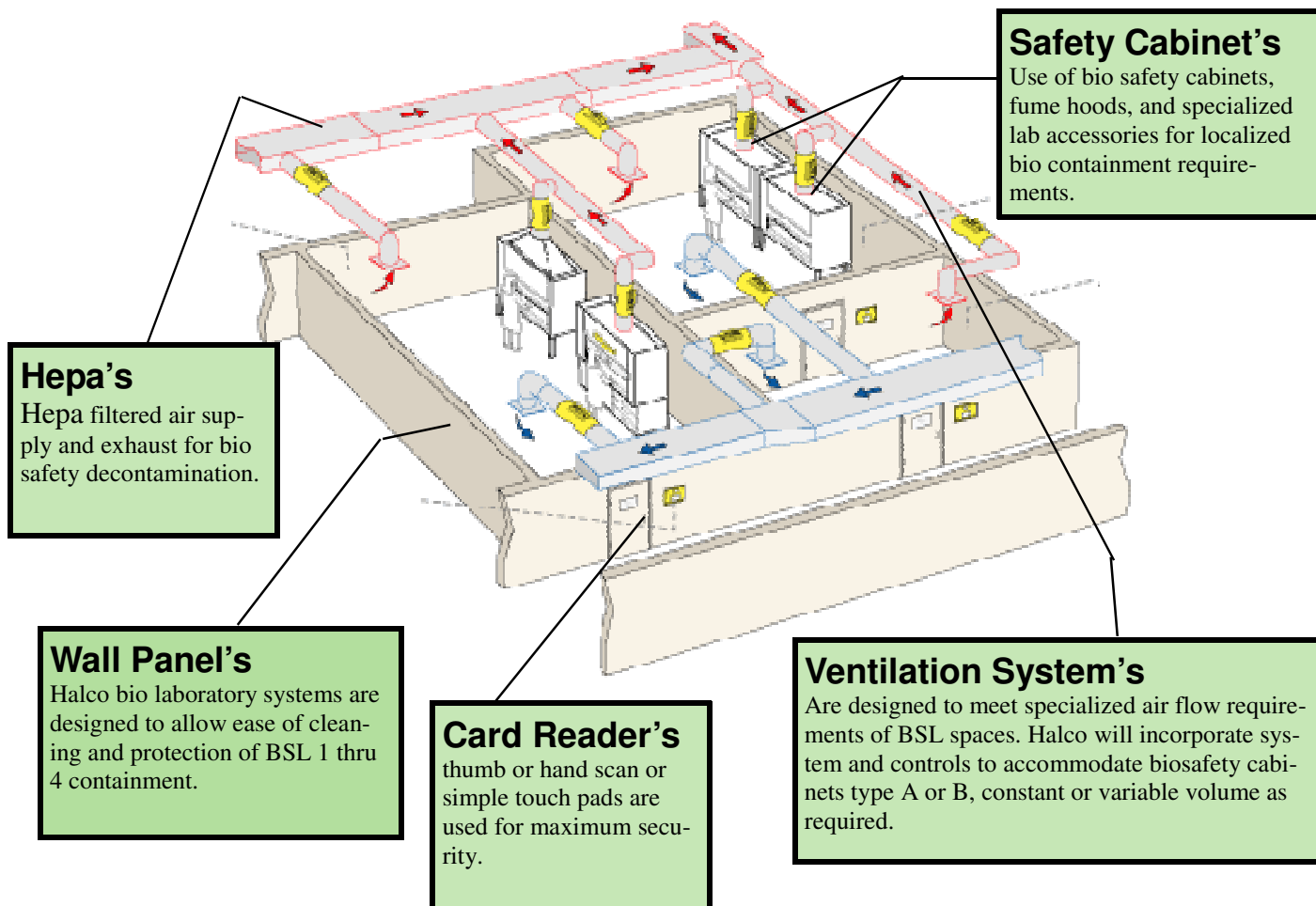
- ◆ We can design a complete BSL 1 through 4 facility for your requirements and needs.
- ◆ We will review concept and needs and outline all requirements in accord with national institute of health, NIH/ CDC or other applicable requirements.
- ◆ We will outline all essential elements and requirements and create a complete bill of materials for a complete and operable system.



What can our Halco consultants do for you?

- ◆ Conceptual Design & Review of Needs
- ◆ Preliminary Concepts & Single Line Drawings
- ◆ Detailed Design & Contract Documents for Bidding
- ◆ Contract Administration
- ◆ Construction Management of Project
- ◆ Acceptance, QA/QC Validation
- ◆ Warranty and fine tuning of facilities

Halco Biosafety Laboratory



Hepa's
Hepa filtered air supply and exhaust for bio safety decontamination.

Safety Cabinet's
Use of bio safety cabinets, fume hoods, and specialized lab accessories for localized bio containment requirements.

Wall Panel's
Halco bio laboratory systems are designed to allow ease of cleaning and protection of BSL 1 thru 4 containment.

Card Reader's
thumb or hand scan or simple touch pads are used for maximum security.

Ventilation System's
Are designed to meet specialized air flow requirements of BSL spaces. Halco will incorporate system and controls to accommodate biosafety cabinets type A or B, constant or variable volume as required.

Bill of Materials/Options

- ◆ Lighting, illumination adequate for all activities
- ◆ Flooring sheet vinyl coved at walls
- ◆ Door interlock and security systems
- ◆ Sterilization and decontamination systems
- ◆ Integral material pass thru and decontamination modules
- ◆ Bio safety hoods, Centrifuge, Incubators, Refrigerators, Autoclaves
- ◆ Modular or built in place systems
- ◆ Packaged waste treatment and chemical processing systems
- ◆ Processed cooling, vacuum, and gas distribution systems
- ◆ Central vacuum cleaning systems
- ◆ In place monitoring and validation system and controls
- ◆ QA/QC project monitoring, validation, and supervision
- ◆ Emergency electric generator back up systems
- ◆ Emergency shower, eye wash, and bio containment equipment
- ◆ Pedal operated sinks and wash basins

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In line with our policy of continual product improvement, HALCO reserves the right to incorporate and use equipment and material to conform with the latest design of its products, and in keeping with the specifications of this equipment.