



# 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

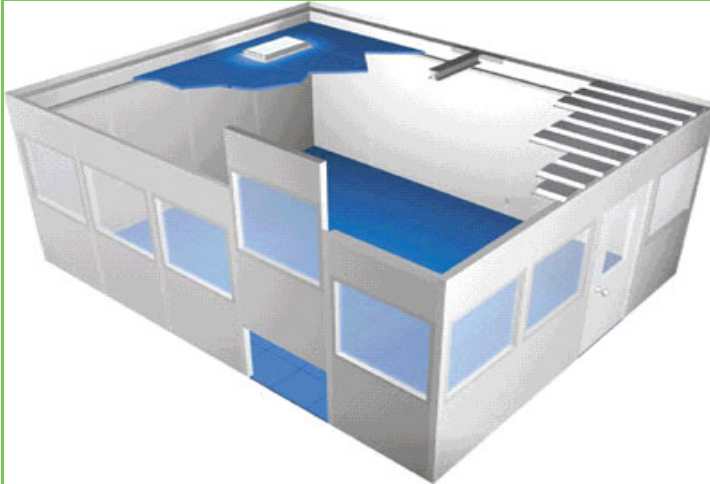
HALCO  
PRODUCT  
INFORMATION

100.1000

## MODULAR CLEAN ROOM

### Today's High Technologies Demand

- Hi-Tech Superclean Solutions
- Innovative Cleanroom Solutions for Every Need
- Modular & Engineered Systems to Meet Demanding Needs
- Turnkey Design Build Permitting One Responsible Source



Halco Products specializes in providing Clean or Sterile Modular Air Systems. The Module System has been designed to meet the cleanliness levels of Class 100 through Class 100,000. We have engineered and designed this system to provide maximum prefabrication and performance while also

providing features to enhance the clean room system. We emphasize quality and pre-engineering to layout and design a functional and user friendly system to meet your specific needs.

### TYPICAL APPLICATIONS

- BIOMEDICAL
- CHEMICAL
- FOOD PROCESSING
- MICROELECTRONIC

- PHARMACEUTICAL
- MILITARY
- HOSPITAL
- AEROSPACE
- COMSETICS

## **DESIGNED SPECIFICALLY TO YOUR NEEDS**

*Halco's team of Design and Contamination Control Engineers will review your specific environmental problems. We will listen to how you plan to use the area, and review equipment loads, population characteristics; system requirements and evaluate all items so as to offer you; a clean enclosure that will perform well and fulfill your contamination control needs. From small workstations, mini-environment, and full size modular facilities, we will provide you with a clean manufacturing environment, specific to your needs.*

### ***Major Advantages***

#### **Walls:**

Load bearing type walls all quick assembly and Easy modification and upgrades. Wall and deck panels are factory fabricated, allowing minimum on site construction time and plant disruption.

#### **Roof Panels:**

Allow sealed; leak free; ceiling cap to eliminate dust and dirt build up above actual clean room ceiling grid and framing. Roof is walkable and with structural can span hundreds of feet.

#### **Doors:**

Factory pre-hung standard man doors up through special Double, dutch type, double swing and fire rated. Roll up doors motorized and non-motorized, and simple Pass-Thru doors. Please feel free to let us know your specific door needs. Security hardware, card readers and several interlock systems are available to fulfill specific access/security needs.

### ***Specialties***

#### **Clean Room Benches:**

Halco manufactures hundreds of styles and designs of benches to allow a local workstation of high level of cleanliness where required. Units are various width's and have options such as, vacuum air, gas, sinks and chemical pipe connections. Contact our sales department with your needs for a complete comprehensive quote



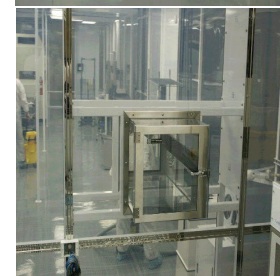
#### **Air Showers:**

Dedicated, HEPA Filtered, high velocity dust and particle limiting enclosures of various sizes and configurations. Units can be fabricated of many types of materials. Microprocessor controlled, and interlocking doors provide a positive way to protect your valuable clean area's



#### **Pass-Thru:**

Pre-fabricated box in walls with two doors allowing passing of items from room to room without cross contamination problems. Units are available fire rated, special vent options, vent options, stainless, galvanized or HPL



## **CONSULTING AND REVIEW**

*Our professional staff of application engineers will meet with you; to create a detailed scope of work; defining all your facility integration needs such as; Mechanical, Electrical, Process Piping, Fire Suppression/Alarm Systems, and Flooring.*

With this information we can put together the following:

- Project Budgets and Financial Impact Studies or Reports.
- Project Time Line and Schedule Analysis
- Taxable Impact and Calculations
- Vendor Analysis Reports to Compare “Applies to Apples”
- Risk Assessment of Exclusions; Leadtimes; Experience, and References

### **Design or Design/Build**

Halco staff will offer design only or design/build project scope. Many customers prefer the design/build approach method of project delivery. This method allows facility planning/owners to work directly with our design team which limits your liability while expediting the process of project evaluation, overall goals, special requirements, and regulatory regulations and rules, to create a set of guidelines with which we can quickly respond with quotations, and get your project moving toward completion; built on time, and certified.



### **Certification Means Quality**

Halco design team's will review your project and evaluate the standards applicable, We support:

- ▲ IES-RP-CC006-2
- ▲ ISO-14644-1
- ▲ Federal Standard #209E

### **Testing and Certification**

Halco provides analysis of your facility and benches as required to meet specified protocols. Regular testing must be established based on quarterly, semi-annual or annual review. Many super critical environments require 24-hour a day monitoring. We focus on monitoring your facility; or hoods; to monitor performance and identify significant changes inefficiency; signaling service or project contamination; prior to it effecting your cost of operation or product loss.



We will also review and assist with procedures and training techniques and develop enhanced protocols to meet your requirements.

### **Some Specific Area's We Review are:**

- ▲ Temperature, Humidity Monitoring, For Stability and With-in Guidelines
- ▲ Airborne Particle Counting and Certification
- ▲ HEPA/ULPA Filter Scanning for Leaks
- ▲ Noise and Lighting Level Testing
- ▲ ESD (Static) Testing and Anti-Static Equipment
- ▲ Protocol Preparation and Evaluation
- ▲ Filter CFM/Velocity Testing
- ▲ Hood/Bench Certification and Review
- ▲ Other

## SAMPLE SPECIFICATIONS

- 1.0 **Clean Room:** Shall Be Class \_\_\_\_\_ ISO \_\_\_\_\_ and as outlined on plans and specifications.  
Clean Room shall be Modular Pre-Fabricated as manufactured by **Halco Products Company**.
- 1.1 **Walls: Modular Walls** shall be factory fabricated and include materials of construction as outlined on plans.
- 1.2 **Doors:** Doors to be factory and pre-hung, and include all butts and hinges lever handled type latch, integral window and seals as indicated on plans.
- 1.3 **Windows:** Provide windows as shown on plans and schedules.
- 1.4 **HEPA Filters:** Provide **Halco HEPA Filter Modules** as specified on drawings and schedule.
- 1.5 **Air Shower:** Provide **Halco Air Shower** with Microprocessor and interlocking doors. Magnehelics for filter status and specialties as shown on drawings and schedule.
- 1.6 **Ceiling:** Provide **ceiling system** and level as necessary. System shall be as shown on drawings and schedule.
- 2.0 **Installation:** System to be designed and installed by **Halco Products Company**. System to meet design criteria as outlined on drawings and specifications and schedules.
- 3.0 **Certification:** System to be tested and certified in accord with applicable standards as outlined on drawings and specifications.
- 4.0 **Guarantee:** Contractor shall guarantee construction; materials and workmanship for (1) One year.

**Note:**

For expanded detailed specifications please contact our sales department. We offer customized specifications designed to specifically meet your needs.

### HALCO PRODUCTS COMPANY

100 North Gordon Street  
Elk Grove Village, Illinois 60007-1193  
(847) 956-1600 Fax (847) 956-0595  
E-Mail: [Info@Halco-Products.com](mailto:Info@Halco-Products.com)  
Website: [www.Halco-Products.com](http://www.Halco-Products.com)

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.