

## **CP PASS THRU SPECIFICATION FOR SINGLE WALL PAINTED STEEL CONSTRUCTION**

### **1.0 PURPOSE AND SCOPE**

This specification describes a factory fabricated pass thru enclosure to be used for maintaining an air sealed air lock between a Clean Room environment and outside contaminated atmosphere. It shall be designed with simplicity in mind while maintaining an aesthetic appearance.

### **2.0 CONSTRUCTION**

- A. Model CPDP pass thrus shall be constructed of a single wall of 16 gage cold roll steel with a white powder coated finish. All seams have a continuous weld and are ground.
- B. The doors for the pass thrus are made of extruded aluminum frame with a clear anodized finish that has a 0.25" clear tempered glass vision panel.
- C. The trim angle for the pass thru is made from 1.5" x 1.5" 16 gage cold roll steel with a white powder coated finish.
- D. The pass thru does not have a bottom. It sits on the floor and uses the existing flooring.

### **3.0 Hardware**

- A. The pass thru doors have a lever handle passage lock with a gray painted finish.
- B. The door has 4.5" nickel plated butt hinges.
- C. The seals for the doors are Pemko S88W vinyl bulb gasket.
- D. The mechanical interlock is made from 0.25" stainless steel all tread with polished aluminum turn buckles on each end that are turned 90 degrees from each other so that when one side has the buckle clear of the door the opposite side blocks the door.

### **4.0 Options**

- A. Electric interlock system
  - 1. The pass thru door locks are a 24VDC magnetic lock
  - 2. Each door has a magnetic sensor switch that determines the status of the door.
  - 3. The pass thru shall have a flush mounted access panel in the top of the pass thru with a 24VDC power supply and terminal blocks.
- B. Fan filter module
  - 1. There shall be a cutout in the top of the pass thru with a 99.99% @ .3 micron HEPA fan filter unit bolted to the top. There shall be perforated openings in the side wall of the pass thru on the dirty side.
  - 2. The fan filter shall require a 120 VAC power connection.
- C. Shelf
  - 1. The shelf shall be constructed of 16 gage cold roll steel with a white powder coated finish..
  - 2. The shelf is supported by 4 nickel plated steel shelf standards with nickel plated steel clips.
  - 3. Each shelf will support up to 25 pounds each.