

# *Express Lab*

## Specifications:

### **Framing**

- 40' High Cube Iso Container
- 1"x2", 2"x2", and 2"x4" tube steel framing

### **Insulation**

- Walls – 2" Rigid Foam Board
- Roof – 2" Rigid Foam Board

### **Doors**

- Exterior: 18 ga hollow metal doors w/ 16GA. welded frames

### **Flooring**

- Medintech as manufactured by Armstrong®
- 4" rubber covebase as manufactured by Roppe®

### **Wall covering**

- 15/32" OSB covered with .090" white FRP

### **Casework and Lab Equipment**

- Metallic epoxy coated base cabinets as furnished by Hanson®
- 3/4" Phenolic work surfaces with 4" back and side splash
- Fume hood as manufactured by Labconco®
- 1 sink as manufactured by Durcon®
- 1 mixing valve as manufactured by WaterSaver®
- 1 safety shower as manufactured by Bradley®
- 1 deck mounted eyewash as manufactured by Bradley®
- Type 1 thermal PVC duct as fabricated by CPM LABFAB, Inc.

### **Electrical**

- Min. wire size 12ga stranded
- Min. circuit capacity 20 amp
- Min. outlet capacity 20 amp
- Min. switch capacity to be 20 amps
- Max. 4 outlets per circuit in lab areas
- All electrical to be in metallic tubing (EMT)
- All 20-amp outlets to be connected with insulated crimp connections
- Max. Length of flexible metallic conduit to be 6 ft. (if necessary)

- No conduit will exceed 75 percent wire capacity as stated in the NEC
- Provide aluminum raceways in lab areas as manufactured by Monosystem®.
- Separate exit and emergency lights are required
- Interior lights to be 24" x 48" 4 bulb fluorescent troffers-T8 tubes-electronic ballasts.
- All electrical services to be connected as a total unit and tested prior to shipping
- All outlets and services to be labeled with circuit number

### ***HVAC***

- The system will consist of a 5 ton wall mounted units
- The air will be delivered into the lab at a rate to promote laminar flow into the hoods
- HVAC equipped with reheat for humidity control
- HVAC unit to have pleated filter and pre-filters
- Units to have make-up air capabilities designed to provide an appropriate lab environment
- Digital thermostat controls with setbacks

### ***Plumbing***

- Water: Copper
- Waste: Fire rated polypro
- Lab gases: 3/8" stainless steel tubing (if required)
- Emergency showers shall be piped continuous from source with 1"dia. copper
- Remote water heater under sink with min. capacity of 4 gallons

### ***Additional***

- Provide three sets of O&M manuals
- Provide 1 year warranty on building and builder supplied components
- F.O.B. Tucson, Arizona
- Pricing and specifications subject to change at any time