

# STANDARD SPECIFICATIONS

# **TESTING & APPROVALS**

- U.L. Certified Panels
- Panels Certified to NSF/ANSI Standard #7.
- Electrical and refrigeration components are Underwriters Laboratories Listed or Recognized and National Sanitation Foundation Certified.
- SGS US Testing Company, Inc. Report Number 740813-1
- Flame spread and smoke developed per UL-723, ASTM E84-95b, ANSI/NFPA No. 255, & UBC No. 8-1.
- 2007 Federal Energy Independence & Safety Act (EISA) compliant
- Los Angeles Research Report Number 25314.
- City of Los Angeles Approved Fabricator Certificate # 2055
- California Energy Commission (CEC) Title 20 compliant.
- City of Houston Fabricator's Certificate # 772
- Oregon Insignia of Compliance-Manufacturer # M564
- Hawaii Compliant

# PANEL CONSTRUCTION

- Walk-in panels shall be modular in design and are to be constructed of 3<sup>1</sup>/<sub>2</sub>", 4", 5", and 6" thick prefabricated panels manufactured with 100% US made materials.
- Panels to be foamed-in-place UL approved polyurethane insulation between interior and exterior metal pans that have been die-formed and gauged for uniformity.
- Panel perimeter shall be tongue-and-groove design with 10 lb density urethane foam rail construction.
- Rails to have a ½" indent to assure flush finish surface with metal flange and attached with use of 2½" staples to stabilize the assembly.
- Single bulb NSF gaskets shall be attached on each panel.
- Panels shall be modular in design and connected with cam-locking fasteners to assure airtight seams and structural strength to the panels.
- Cam locks are lever acting with eccentric hooked locks and mating pins securely anchored in the adjacent panel to assure the ease of alignment and positive seal. Cam-lock spacing shall not exceed 48" on center.
- Corners and T Panels to have minimum <sup>3</sup>/<sub>8</sub> radius per NSF Standard #7.

# FLOOR CONSTRUCTION

- Floor panels shall be 4<sup>3</sup>/<sub>4</sub>" thick and constructed with metal bonded to <sup>3</sup>/<sub>4</sub>" exterior grade plywood and then foamed-in-place.
- Standard floor finish is .040" stucco-aluminum.
- Floors shall be designed and manufactured to support uniformly distributed stationary loads up to 650 pounds per square foot.
- If a floor is not required, alignment channel is provided. Channel is designed to be anchored to masonry floors and to provide a template for wall panels.

#### **INSULATION**

- CFC free polyurethane foamed-in-place insulation shall have 97% closed cell structure and insure proper insulation throughout the entire panel. Solid board foam insulation is not acceptable.
- Class 1 rated urethane foam to have thermal resistance (R-Value) of not less than R-8/inch, thermal conductivity (K-Factor) of not less than .120 BTU/hr per degree F/ inch and overall heat transfer coefficient (U-Factor) of not more than .030 BTU/hr per sq ft.
- Urethane foamed in place and cured to a solid state between metal skins at an average of 2.2 lbs. per cubic foot.
- All foam panels to be supplied with Class 1 fire hazard insulation certified by Underwriters Laboratories as having a flame spread of 25 or less and smoke generation of 450 or less when tested in accordance with ASTM-E-84.

#### ENTRANCE DOORS

- Standard door shall be 36" X 78" flush mount construction and with PVC frame and jamb assembly and with magnetic gaskets.
- The door edge shall consist of a PVC perimeter into which the interior and exterior metal skins are secured and shall create a thermal break between metal facings.
- Magnetic gasket shall be dart and ridge design to allow quick replacement.
- Freezer doors shall have concealed heated jamb and threshold heater, easily accessible for replacement or service.
- Heated pressure relief vent port shall be provided on freezer applications.
- Three (3) door hinges shall be heavy-duty cam-lift design in bright chrome finish.
- Hinges shall have steel pins with nylon bushings and shall be of sufficient size and number to support twice the weight of the door.
- The door latch shall be made of similar materials and finish as the door hinges. The latch shall incorporate an inside safety release that complies with OSHA standards.
- All doors shall be self-closing without assistance when opened up to 90 degrees and shall remain open when opened beyond 90 degrees.
- The bottom of the door shall have a double flexible sweep gasket.

#### METAL FINISH

- Standard finish is 26 gauge embossed galvanized steel. U.S. produced steel with G-90 galvanized coating; galvanized coating thickness certification, material gauge certification & steel certificate of origin are required.
- Optional exterior and interior finishes include: stucco embossed galvalume; stucco embossed aluminum; stainless steel; smooth white aluminum; Smooth Galvanized; black galvanized steel; and Fiberglass reinforced plastic (FRP).

#### **LIGHTING**

- Light fixture 48" LED (shipped loose) shall be compact vapor-proof fluorescent type, shipped loose, with a shatterproof globe cover (light bulb included).
- Light switch with pilot light and digital thermometer shall be factory installed and flush-mounted on the exterior of the door frame.
- All wiring within the door frame, light switch, to be factory installed in concealed conduit (foamed-inplace) and shall terminate at the top of the frame. (All wires to be properly labeled). Field connection (by others) is required for complete operation; 120 volt, 60 cycle, 1-phase.
- All components U.L. certified.

# PANEL LOCKING ASSEMBLY

- Assembly of walk-ins shall be accomplished by cam-locking fasteners activated by a hex wrench provided by the factory.
- Cam & pin slots shall be mortise cut. Dado slots are not acceptable.
- Access ports shall be on the interior of panels to allow assembly of walk-ins from inside and shall be covered with snap on cap plugs.

#### PANEL GASKETS

- Flexible NSF vinyl gaskets shall be adhesive backed and installed on the exterior edge of the foam rail "tongue."
- Gaskets shall be impervious to stains, grease, oils, and mildew.

# <u>NSF</u>

- All coolers and freezers shall be fabricated to comply with National Sanitation Foundation Standard (NSF) #7.
- The NSF label shall be affixed to the interior door jamb.
- UL labels shall be affixed to the panels.

# TRIM & BASE COVING

- Trim and Base Coving strips between walk-in walls and building walls shall be furnished by factory, shipped loose.
- Standard for cove base to match finish of box.

#### **REFRIGERATION**

- Refrigeration sized per ASHRAE standards.
- <u>Coolers</u>:
  - •. Equipped for 35°F operating temp, 10° TD;
  - •. Condensing Unit with Time Clock on all Units 208/230v-1Ø or 3Ø, 460v 3Ø;
  - Air defrost Evaporator Coil;
  - R404A.
- <u>Freezers</u>:
  - Equipped for -10°F operating temp, 10° TD;
  - Condensing Unit with Time Clock on all Units 208/230v-1Ø or 3Ø, 460v 3Ø;
  - Electric defrost evaporator coil;
  - R404A.

#### **Warranty**

- 10 year warranty on panels. Warranty is non-transferable.
- 1 year replacement warranty on parts.
- 1-Year manufacturers' warranty on compressor.
- Optional extended 4 year warranty available on compressor.
- Optional labor warranty available.
- Warranty shall not include any labor charges for replacement or repair of defective parts or refrigeration.
- Full warranty information will be provided with walk-in and is available online at http://www.commercialcooling.com/resources/warranty/

# Structural Engineering Calculations

- Stamped Drawings, Certified in 50 States.
- \$2 Million Insurance Coverage Professional Liability and General Liability.

# CommercialCooling.com | 17855 Arenth Ave. City of Industry, CA 91748 | 626.964.8700





