Standard Foodservice Walk-in Specifications

Walk-In Cold Storage Rooms

Imperial Brown modular, urethane foamed in place sandwich panels.

1. General Specifications
   a. Panels shall be NSF listed, meet 2009 E.I.S.A requirements and certified with the DOE.

2. Panel Construction
   a. Panels shall be constructed with interior and exterior metal skins precisely formed to ensure proper size.
   b. Panel core shall be UL listed, Class 1 fire rated, polyurethane foam, using non CFC propellant.
   c. Standard panel sections shall be interchangeable nominal 48” widths. Special panels sized to meet custom requirements.
   d. Corners and T panels shall be constructed with minimum 1/4” radius in accordance with NSF standard #7.

3. Insulation
   a. CFC-free Class 1 fire rated polyurethane foam core. UL-723, < = 25 flame spread and smoke developed < = 450, in accordance with ASTM E84.
   b. Urethane, as specified, shall be foamed in place and cured to a solid rigid state between metal panel skins at an average density of two pounds per cubic foot.
   c. K factor not to exceed .125 at a 20°F mean. K factor not to exceed .140 at a 55°F mean.
   d. Insulation shall have 97% closed cell structure and conform to international standards for ozone depletion contribution.

4. Section Fasteners and Connectors
   a. Each device shall consist of a precisely located cam lock and steel pin.
   b. All locks shall be actuated from inside the enclosure with a standard hex type Allen wrench
   c. All access holes are to be finished with white snap in cover caps on wall and ceiling panels and stainless steel caps on floor panels

5. Section Gasket
   a. All panel sections shall have two rows of closed cell gasket adhered to the top, bottom, and cam lock side of the panel, creating a self-sealing, air tight joint
   b. Gasket shall be NSF approved vinyl extruded gasket

6. Swing Doors
   a. Cooler and freezer doors to be 34”x 78”, flush construction with extruded steel reinforced PVC frame and jamb assembly with magnetic gaskets.
   b. Freezer door to include frame and threshold heaters.
   c. Door finish to match panel finishes inside and out.
   d. Insulation for door leaf to be 4” thick, same as panel specification
   e. Provide Kason 1094 door closure for each door.
   f. Provide three Kason 1248 cam rise, spring loaded, chrome hinges per door. Hinge direction per plans.
   g. Provide Kason 27C locking handle with inside safety release for each door.
   h. Provide 36” tall, aluminum diamond tread kickplates at exterior and interior of each door leaf.
   i. Freezer door frame to include heated Kason 1825 air vent.

7. Finish
   a. The interior and exterior of the panels shall be stucco Galvalume steel with factory baked-on white enamel finish. Unexposed exterior surfaces can be stucco Galvalume steel.

8. Floors
   a. Floor panel construction to be per section 2.
   b. Wear surface to be .080 Smooth Aluminum rated to withstand hand truck traffic.
   c. Underlayment to be 1/8” plywood, and constructed with high density urethane rails.
   d. NSF cove to be formed and foamed in place in floor panel. Corners to be seamless.

9. Closures and Trim
   a. Include matching trim strips and ceiling closure panels between walk in walls and building walls as necessary.

10. Accessories
    a. Kason 1808 LED light fixture.
    b. Toggle switch with pilot light.
    c. Analog 2” flush mount dial thermometer.
    d. Kason 1825 heated air vent (freezers only).
    e. NSF cove base for coolers with no floor.

11. Refrigeration
    a. Refrigeration equipment to be sized per ASHRAE holding only standards.
    b. Coolers to be designed for 35°F operating temp, 10 degree TD.
    c. Freezers to be designed for -10°F operating temp, 10 degree TD.
    d. Coolers to include air defrost timer, Freezers to include electric defrost timer.
    e. R-404a, 208/230v-3Ø, air cooled outdoor condensing units for coolers.
    f. R-404a, 208/230v-3Ø, air cooled outdoor condensing units for freezers.
    g. 115v air defrost evaporator for coolers.
    h. 208/230v-1Ø electric defrost evaporator for freezers.
    i. Factory mounted parts to include one liquid solenoid, sight glass, drier, thermostat and flooded head pressure control per system and one TXV per evaporator

12. Warranty
    a. Panels to include 15 year performance warranty.
    b. Parts to include 1 year replacement warranty.
    c. Door leafs to include 5 year performance warranty.
    d. Refrigeration to include one year parts and labor warranty.
    e. Extended 4 year compressor warranty.
    f. Walk-ins to be installed by factory authorized installer. Refrigeration installed by a licensed refrigeration contractor incorporating ASHRAE standards and practice.