

SECTION 112600 - STAINLESS STEEL STORAGE UNITS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes factory-fabricated stainless steel cabinets and accessories.

1.3 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design healthcare casework, including comprehensive engineering analysis by a qualified professional engineer, using seismic performance requirements indicated.
- B. Seismic Performance: Provide healthcare casework, including attachments to other work, capable of withstanding the effects of earthquake motions applicable for this location.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, finishes, and accessories.
 - 2. Include rated capacities, operating characteristics, electrical characteristics, and utility connection requirements of appliances.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
 - 1. Indicate locations of blocking and reinforcements required for installing casework.
 - 2. Indicate hardware locations.
 - 3. Indicate locations of and clearances from adjacent walls, doors, windows, other building components, and equipment.
 - 4. Indicate locations of field-made joints in stainless-steel countertops.
- C. Samples for Verification: Full-size units of each type of hardware indicated.

- D. Delegated-Design Submittal: For healthcare casework indicated to comply with seismic performance requirements, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain healthcare casework through one source from a single manufacturer.
- B. Product Designations: Drawings indicate sizes and configurations of healthcare casework by referencing designated manufacturer's catalog numbers. Other manufacturers' metal medical casework of similar sizes, similar door and drawer configurations, and complying with the Specifications may be considered. Refer to Division 01 Section "Product Requirements."
- C. Keying Conference: Conduct conference at Project site. Incorporate keying conference decisions into final keying requirements.
- D. Preinstallation Conference: Conduct conference at Project site.

1.6 COORDINATION

- A. Coordinate layout and installation of framing and reinforcements for support of healthcare casework.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For each configuration of unit storage cabinet.
- C. Sample Warranty: For special warranty.

1.8 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For each unit to include in operation and maintenance manuals.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver factory-assembled units, individually factory packaged and protected. Label with manufacturer's name, product name, and model number.

1.10 FIELD CONDITIONS

- A. Established Dimensions: Where cabinets are indicated to fit to other construction, establish dimensions for areas where casework is to fit. Coordinate construction to ensure that actual dimensions correspond to established dimensions. Provide fillers and scribes to allow for trimming and fitting.
- B. Field Measurements: Where cabinets are indicated to fit to existing construction, verify dimensions of existing construction by field measurements before fabrication and indicate measurements on Shop Drawings. Provide fillers and scribes to allow for trimming and fitting.

1.11 COORDINATION

- A. Coordinate layout and installation of blocking and reinforcement in partitions for support of cabinets.
- B. Coordinate wiring requirements and current characteristics of unit kitchens with building electrical system.
- C. Coordinate layout and installation of plumbing, mechanical, and electrical services for unit kitchens.

1.12 WARRANTY

- A. Manufacturer's Special Warranty: Manufacturer agrees to provide on-site service for sealed compressor systems as follows:
 - 1. Warranty Type: Full warranty including parts and labor.
 - 2. Warranty Period: Ten years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Materials:
 - 1. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304.
- B. Stainless-Steel Cabinets: Fabricate frames and sides from 18 gauge thick, type 304 stainless-steel sheet with No. 4 finish; welded and reinforced with internal gussets and bracing.
 - 1. Door Fronts: 18 gauge thick, type 304, stainless-steel sheet; welded, reinforced, and sound deadened.

- C. Nominal Stainless-Steel Thicknesses for Stainless-Steel Medical Casework:
 - 1. Sides, Ends, Fixed Backs, Bottoms, Cabinet Tops, Soffits, and Items Not Otherwise Indicated: 0.050 inch. Bottoms may be 0.038 inch if reinforced.
 - 2. Back Panels, Doors, Drawer Fronts and Bodies, and Shelves: 0.0375 inch except 0.050 inch for unreinforced shelves more than 36 inches long.
 - 3. Intermediate Horizontal Rails, Center Posts, Tubular Legs, and Top Gussets: 0.062 inch.
 - 4. Drawer Runners and Hinge Reinforcements: 0.078 inch.
 - 5. Leveling and Corner Gussets: 0.109 inch.
- D. Glass for Glazed Doors: Clear tempered glass complying with ASTM C 1048, Kind FT, Condition A, Type I, Class 1, Quality-Q3; not less than 5.0 mm thick.
- E. Shelves: Manufacturer's standard perforated shelves, adjustable, of same material and finish as cabinets.
- F. Pegboard: Perforated steel sheet, 0.048-inch nominal thickness, with powder-coated finish.
- G. Insulation for Warming Cabinets: Semi-rigid, glass-fiber board insulation complying with ASTM C 612, Type IA or Type IB.
- H. Pulls: Manufacturers Standard.
 - 1. Metal and Finish: Stainless steel.
- I. Stainless-Steel Finishes: Remove tool and die marks and stretch lines, or blend into finish. Grind and polish surfaces to produce uniform finish, free of cross scratches. Run grain of directional finishes with long dimension of each piece. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
 - 1. Bright, Directional Polish: No. 4.

2.2 CABINET FABRICATION

- A. General: Assemble and finish units at point of manufacture. Use precision dies for interchangeability of like-size drawers, doors, and similar parts. Perform assembly on precision jigs to provide units that are square. Reinforce units with angles, gussets, and channels. Integrally frame and weld to form a dirt and vermin-resistant enclosure. Maintain uniform clearance around door and drawer fronts of 1/16 to 3/32 inch.
- B. Metal Flush Doors: Outer and inner pans that nest into box formation, with full height channel reinforcements at center of door. Fill doors with noncombustible, sound-deadening material.
- C. Glazed Doors: Hollow-metal stiles and rails of similar construction as flush doors, with glass held in resilient channels or gasket material.
- D. Hinged Doors: Mortise for hinges and reinforce with angles welded inside inner pans or hollow metal stiles at hinge edge.

- E. Metal Shelves: Front, back, and ends formed down, with edges returned horizontally at front and back to form reinforcing channels. Provide clips, brackets, pilasters or other means to support shelves from cabinet ends and allow height of shelves to be adjusted in increments of not more than 2 inches.
- F. Filler Strips: Provide as needed to close spaces between cabinets and walls, ceilings, and indicated equipment. Fabricate from same material and with same finish as cabinets and with hemmed or flanged edges.
- G. Trim Flanges: Formed metal trim fabricated from same material and with same finish as cabinets. Provide at perimeter of recessed cabinets.

2.3 CABINET HARDWARE

- A. General: Provide healthcare casework manufacturer's standard, commercial-quality, heavy-duty hardware complying with requirements indicated for each type.
- B. Hinges: Stainless-steel, 5-knuckle hinges complying with BHMA A156.9, Grade 1, with antifriction bearings and hospital tips. Provide 2 for doors 48 inches high or less and 3 for doors more than 48 inches high.
- C. Hinged Door and Drawer Pulls: Stainless-steel.
 - 1. Design: Manufacturers standard.
 - 2. Overall Size: 1-1/4 by 4-1/2 inches.
- D. Door Catches: Nylon-roller spring catches. Provide 2 catches on doors more than 48 inches high.
- E. Locks: Cam or half-mortise type with 5-pin tumbler; brass with chrome-plated finish; complying with BHMA A156.11, Type E07281, E07111, or E07021.
 - 1. Provide minimum of two keys per lock and six master keys.
 - 2. Provide locks on all drawers and doors.
 - 3. Keying: Key locks as directed.
 - 4. Master Key System: Key all locks to be operable by master key.

2.4 COMPONENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
 - 1. Built-in Cabinets: Listed and labeled for recessed installation. Mount label to be visible after installation of unit; include electrical rating and minimum installation clearances.
- B. Appliance Standards:
 - 1. UL 250 or AHAM ER-1.
 - 2. UL 858 or AHAM HRF-1.
 - 3. Microwave Ovens: UL 923.

2.5 ELECTRIC WARMING CABINET

A. Electric Warming Cabinet: Two Compartment

1. Mounting: Built-in wall.
2. Operation: Warming.
3. Dimensions: Confirm overall dimensions with drawings
 - a. Width: 30"
 - b. Depth: 21"
 - c. Height: 74"
4. Electric Heaters: Located on the rear panel of the unit compartment. 350 watts each.
5. Door(s): Flush with observation window and standard door handles.
6. Electric Power Supply: 120 V, 60 Hz, 1 phase, 12.5 A minimum with cord & plug.
7. Controls: Digital panel controls and timer display.
8. Additional Unit Features:
 - a. Lighted Power Switch
 - b. Temperature Conversion switch
 - c. Digital temperature display
 - d. Oven temperature audible alarm
 - e. Printed circuit board for two compartment heat
 - f. Temperature Adjusting controls: 80 degree F to 180degree F. range
 - g. Air circulating fan
 - h. Temperature setting switch
 - i. Circuit breaker disconnect
 - j. Heat resistant door gaskets
 - k. Control panel - membrane switches
 - l. Stainless steel perforated heater guards
 - m. Pilaster strips for shelf adjustments
 - n. Stainless steel perforated shelves - 4 total
 - o. Secondary hi limit thermal element that opens at 200 degrees F.
 - p. 18 gauge stainless steel interior and exterior with type 304 - #4 finish.
 - q. Catheter slides

2.6 STORAGE CABINET

A. Stainless Steel Storage Cabinet:

1. Mounting: Built-in wall.
2. Operation: Storage.
3. Dimensions: Confirm overall dimensions with drawings
 - a. Width: 48"
 - b. Depth: 24"
 - c. Height: 72"

4. Unit Features:
 - a. Adjustable shelves - 4
 - b. Full glass doors
 - c. Pilaster strips for shelf adjustments
 - d. 18 gauge stainless steel interior and exterior with type 304 - #4 finish.
 - e. Catheter slides

B.

2.7 FABRICATION

- A. General: Factory fabricate, finish, and assemble cabinets as a one-piece assembly. Securely fasten components, fixtures, and appliances together.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls and floors, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- C. Examine walls and partitions for proper backing for unit kitchens.
- D. Examine roughing-in for electrical power system(s) to verify actual locations of connections before installation.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install level, plumb, and true; shim as required, using concealed shims. Provide fasteners, clips, backing materials, brackets, anchors, fillers, scribes, trim, and accessories necessary for complete installation.
- B. Comply with requirements for connecting unit to electrical power system.

3.3 ADJUSTING AND CLEANING

- A. Test, adjust, and verify operation of each appliance, plumbing fixture, and component of unit kitchens. Repair or replace items found to be defective or operating below rated capacity.

- B. Verify that operating parts work freely and fit neatly and that clearances are adequate to properly and freely operate appliances.
- C. Clean, lubricate, and adjust hardware. Adjust doors and latches to operate easily without binding. Verify that locking devices operate properly.
- D. After completing installation, remove protective coverings if any.
- E. Replace damaged parts, dents, buckles, abrasions, and other defects affecting appearance or serviceability. Touch up factory-applied finishes to restore damaged or soiled areas.

END OF SECTION