

SECTION 113013 – RESIDENTIAL APPLIANCES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Cooking appliances.
2. Kitchen exhaust ventilation.
3. Refrigeration appliances.
4. Cleaning appliances.

B. Related Sections:

1. Section 123530 – Residential Casework.
2. Section 123623.13 – Plastic-Laminate-Clad Countertops.
3. Section 262726 – Wiring Devices.
4. Section 262816 – Enclosed Switches and Circuit Breakers.
5. Section 260010 – Supplemental Requirements for Electrical.
6. Section 260519 – Low-Voltage Electrical Power Conductors and Cables.
7. Section 260553 – Identification for Electrical Systems.

C. Reference and Industry Standards

1. The following reference standards shall be applicable to this Section:
 - a. New York City Building Code **current** edition, as amended.
 - b. ICC A117.1 Accessible and Usable Buildings and Facilities, **current** edition.
2. Industry Standards
 - AHAM (Association of Household Appliance Manufacturers)
 - ANSI (American National Standards Institute)
 - NFPA (National Fire Protection Association)
 - UL (Underwriters Laboratories)

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified.

1.4 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Sample warranties.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and maintenance data.

1.6 WARRANTY

- A. Special Warranties: Manufacturer agrees to repair or replace residential appliances or components that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Appliances: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Gas-Fueled Appliances: Certified by a qualified testing agency for each type of gas-fueled appliance according to ANSI Z21 Series standards.
- C. All appliances shall comply with EPA/DOE ENERGY STAR product-labeling program.

2.2 COOKTOPS

- A. Electric Cooktop:
 - 1. Electric Burner Elements: Two [**coil**] [**radiant**] -type burners.
 - 2. Top Material: [**Manufacturer's standard**] [**Ceramic glass**].
- B. Gas Cooktop:
 - 1. Gas Burners: Two.
 - 2. Top Material: Manufacturer's standard.

2.3 RANGES

- A. Electric Range: [**Freestanding**] [**Slide-in**] range with one oven and complying with AHAM ER-1.
 - 1. Electric Burner Elements: Four [**coil**] [**radiant**] -type burners.
 - 2. Anti-Tip Device: Manufacturer's standard.

3. Material: Porcelain-enameled steel with **[manufacturer's standard]** **[ceramic-glass]** cooktop.

B. Gas Range: **[Freestanding]** **[Slide-in]** range with one oven.

1. Gas Burners: Four.
2. Anti-Tip Device: Manufacturer's standard.
3. Material: Porcelain-enameled steel with manufacturer's standard cooktop.

2.4 MICROWAVE OVENS

A. Microwave Oven:

1. Free-Standing Countertop Model.
2. Capacity: **[1.5 cu. ft.]** **[2.0 cu. ft.]** **<Insert capacity>**.
3. Exhaust Fan: **[Variable]** **[Two]** **[Four]**-speed fan, non-vented, recirculating type with charcoal filter and with manufacturer's standard capacity.
4. Microwave Power Rating: **[Manufacturer's standard]** **[1000 W]** **<Insert power rating>**.
5. Material: **[Porcelain-enameled steel]** **[Stainless steel]** **[Manufacturer's standard]**.

2.5 KITCHEN EXHAUST VENTILATION

A. Overhead Exhaust Hood:

1. Type: Wall-mounted, exhaust-hood system.
2. Exhaust Fan: **[Variable]** **[Two]** **[Three]**-speed fan **[built into hood]** **[remotely located, with separate housing]** and with **[manufacturer's standard]** **[500-cfm]** **[900-cfm]** **<Insert value>** capacity.
 - a. Venting: **[Vented to outside through roof]** **[Vented to outside through wall]** **[Non-vented, recirculating type with charcoal filter]** **<Insert requirement>**.
3. Finish: **[Baked enamel]** **[Stainless steel]** **<Insert finish>**.

2.6 REFRIGERATOR/FREEZERS

A. Accessibility Requirements:

1. Refrigerator/Freezers shall have at least 50% of the freezer compartment shelves, including the bottom of the freezer, a maximum height of 54 inches AFF (above finished floor) when shelves are installed at the maximum height possible within the compartment.
2. For *Senior Housing* dwelling units and *Mobility-Impaired* dwelling units, standard door handles are preferred instead of integrated handles which may be difficult to grasp.

B. Refrigerator/Freezer: Two-door refrigerator/freezer with freezer on top complying with AHAM HRF-1.

1. Type: Freestanding.
2. Storage Capacity:
 - a. Refrigeration Compartment Volume: 15.6 cu. ft.
 - b. Freezer Volume: 5.13 cu. ft.
3. General Features:
 - a. Interior light in refrigeration compartment.
 - b. Automatic defrost.
 - c. Interior light in freezer compartment.
 - d. Automatic icemaker and storage bin.
4. ENERGY STAR: Provide appliances that qualify for the EPA/DOE ENERGY STAR product-labeling program.
5. Front Panel(s): [**Porcelain enamel**] [**Stainless steel**].

2.7 DISHWASHERS (Installation Subject to Approval of HPD Loan Program Directors)

A. Dishwasher: Complying with AHAM DW-1.

1. Type: Built-in undercounter.
2. ENERGY STAR: Provide appliances that qualify for the EPA/DOE ENERGY STAR product-labeling program.
3. Front Panel: [**Porcelain enamel**] [**Stainless steel**].

2.8 CLOTHES WASHERS AND DRYERS

A. Clothes Washer: Complying with AHAM HLW-1.

1. Type: [**Freestanding**] [**Stacking**], front-loading unit.
2. Capacity: [**2.7 cu. ft.**] [**3.2 cu. ft.**] [**3.8 cu. ft.**] <Insert volume>.
3. Agitator: Impeller (without spindle)
4. Pedestal Base/Lifting Block: [**8-inch-high**] [**15-inch-high**] [**Manufacturer's standard height**] <Insert dimension> laundry pedestal with storage drawer, matching appliance finish.
5. Water-Efficient Clothes Washer: Provide clothes washer with modified energy factor greater than or equal to 2.0 and water factor less than 5.5.
6. Appliance Finish: [**Enamel**] [**Stainless steel**] <Insert finish>.
7. Front-Panel Finish: [**Porcelain enamel**] [**Stainless steel**]

B. Clothes Dryer: Complying with AHAM HLD-1.

1. Type: [**Freestanding**] [**Stacking**], frontloading, [**gas**] [**electric**] [**electric, ventless**] unit.
2. Capacity: [**5.7 cu. ft.**] [**7.0 cu. ft.**] <Insert volume>.

3. Features:
 - a. Interior drum light.
 - b. Stacking kit to stack dryer over washer.
 - c. Pedestal Base/Lifting Block: **[8-inch-high]** **[15-inch-high]** **[Manufacturer's standard height]** **<Insert dimension>** laundry pedestal with storage drawer, matching appliance finish.
4. Appliance Finish: **[Enamel]** **[Stainless steel]** **<Insert finish>**.
5. Front-Panel Finish: **[Porcelain enamel]** **[Stainless steel]**

2.9 CLOTHES WASHER/DRYER COMBINATIONS

- A. Clothes Washer/Dryer Combination: Complying with AHAM HLW-1.
 1. Type: Freestanding front-loading washer/dryer unit with **[dual-drum design and electric dryer]** **[dual-drum design and gas dryer]** **[all-in-one, single-drum design]**.
 2. Washer-Drum Capacity: **[1.5 cu. ft.]** **[2.0 cu. ft.]** **[2.6 cu. ft.]** **<Insert volume>**.
 3. Dryer-Drum Capacity: **[2.0 cu. ft.]** **[3.4 cu. ft.]** **[5.9 cu. ft.]** **<Insert volume>**.
 4. Washer/Dryer Drum Capacity: **[2.3 cu. ft.]** **[3.6 cu. ft.]** **<Insert volume>**.
 5. Water-Efficient Clothes Washer: Provide clothes washer with modified energy factor greater than or equal to 2.0 and water factor less than 5.5.
 6. Appliance Finish: **[Enamel]** **[Stainless steel]** **<Insert finish>**.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Built-in Equipment: Securely anchor units to supporting cabinets or countertops with concealed fasteners. Verify that clearances are adequate for proper functioning and that rough openings are completely concealed.
- B. Freestanding Equipment: Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.
- C. Range Anti-Tip Device: Install at each range according to manufacturer's written instructions.

3.2 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections with the assistance of a factory-authorized service representative:
 1. Perform visual, mechanical, and electrical inspection and testing for each appliance according to manufacturers' written recommendations. Certify compliance with each manufacturer's appliance-performance parameters.
 2. Leak Test: After installation, test for leaks. Repair leaks and retest until no leaks exist.

3. Operational Test: After installation, start units to confirm proper operation.
 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and components.
- B. An appliance will be considered defective if it does not pass tests and inspections.
- C. Prepare test and inspection reports.

END OF SECTION 113013