

## 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**