

SECTION 113100 - RESIDENTIAL APPLIANCES

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:

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

B. Related Sections:

1. Division 22 Section "Plumbing Fixtures" for kitchen sinks, waste disposers, and instant hot-water dispensers.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, dimensions, furnished accessories, and finishes for each appliance.
- B. Product Schedule: For appliances. Use same designations indicated on Drawings.
- C. Operation and Maintenance Data: For each residential appliance to include in operation and maintenance manuals.
- D. Warranties: Sample of special warranties.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer for installation and maintenance of units required for this Project.
- B. Source Limitations: Obtain each type of residential appliance from single manufacturer.
- C. Regulatory Requirements: Comply with the following:
 1. NFPA: Provide electrical appliances listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

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- D. Accessibility: Where residential appliances are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines.

1.5 WARRANTY

- A. Warranties: Manufacturer's standard form in which manufacturer agrees to repair or replace residential appliances or components that fail in materials or workmanship within specified warranty period.
- B. Electric Range: Full warranty including parts and labor for on-site service on surface-burner elements.
 - 1. Warranty Period: Five years from date of Substantial Completion.
- C. Refrigerator/Freezer, Sealed System: Full warranty including parts and labor for on-site service on the product.
 - 1. Warranty Period for Sealed Refrigeration System: Five years from date of Substantial Completion.
 - 2. Warranty Period for Other Components: Two years from date of Substantial Completion.
- D. Dishwasher: Full warranty including parts and labor for on-site service on the product.
 - 1. Warranty Period for Deterioration of Tub and Metal Door Liner: Five years from date of Substantial Completion.
 - 2. Warranty Period for Other Components: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 RANGES

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated or comparable product by one of the following:
 - 1. Amana; a division of Whirlpool Corporation.
 - 2. BOSCH Home Appliances.
 - 3. Electrolux Home Products (Frigidaire).
 - 4. General Electric Company (Hotpoint).
 - 5. KitchenAid; a division of Whirlpool Corporation.
 - 6. LG Appliances.
 - 7. Maytag; a division of Whirlpool Corporation.
 - 8. Sears Brands LLC (Kenmore).
 - 9. Sharp Electronics Corp.
 - 10. Whirlpool Corporation.
- B. Electric Range (Living Units): Where this designation is indicated, provide electric ranges listed by UL and complying with the following:

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1. Products: Available products include the following:
 - a. Hot Point: Model RB757WHWW
 2. Type: 30-inch- wide, freestanding electric range.
 3. Cooktop: Recessed, hinged, tilt-up, porcelain-enamel cooktop with four surface burners.
 - a. Burner Types: Two 8-inch (2600-W maximum) and two 6-inch (1500-W maximum), plug-in, coil-burner elements.
 - 1) Burner Trim: Provide each burner with a removable chrome-plated drip pan and chrome-plated trim ring.
 4. Oven: Manual-cleaning oven with porcelain-enamel interior with two tilt-proof, chrome-plated, self-locking oven racks.
 - a. Oven Door: Counterbalanced, removable, porcelain-enamel oven door, with observation window.
 5. Control Panel: Porcelain-enamel combination surface-burner/oven control panel mounted at the back of cooking surface. Include burner "ON" indicator light, automatic oven timer, and electronic clock.
 - a. Controls: Rotary-dial type with removable knobs.
 6. Storage Drawer: Removable, full-width storage drawer below oven with porcelain-enamel front panel.
 7. Finish: Porcelain enamel on steel.
 - a. Color: White.
 8. Standard features include the following:
 - a. Rimmed cooktop deck.
 - b. Interior oven light.
 - c. Two-piece, porcelain-enamel broiler pan.
 - d. Four adjustable legs.
- C. Electric Range (Accessible Living Units and Community Building): Where this designation is indicated, provide electric ranges listed by UL and complying with the following:
1. Products: Available products include the following:
 - a. General Electric: Model JDP39WWWW
 2. Type: 30-inch- wide, drop-in electric range.
 3. Cooktop: Recessed, hinged, tilt-up, porcelain-enamel cooktop with four surface burners.
 - a. Burner Types: Two 8-inch (2600-W maximum) and two 6-inch (1500-W maximum), plug-in, coil-burner elements.

- 1) Burner Trim: Provide each burner with a removable chrome-plated drip pan and chrome-plated trim ring.
4. Oven: Manual-cleaning oven with porcelain-enamel interior with two tilt-proof, chrome-plated, self-locking oven racks.
 - a. Oven Door: Counterbalanced, removable, porcelain-enamel oven door, with observation window.
5. Control Panel: Porcelain-enamel combination surface-burner/oven control panel mounted at front of cooking surface above oven door. Include burner "ON" indicator light, automatic oven timer, and electronic clock.
 - a. Controls: Rotary-dial type with removable knobs.
6. Finish: Porcelain enamel on steel.
 - a. Color: White.
7. Standard features include the following:
 - a. Rimmed cooktop deck.
 - b. Interior oven light.
 - c. Two-piece, porcelain-enamel broiler pan.

2.2 KITCHEN EXHAUST VENTILATION

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated or comparable product by one of the following:
 1. Amana; a division of Whirlpool Corporation.
 2. BOSCH Home Appliances.
 3. Electrolux Home Products (Frigidaire).
 4. General Electric Company (Hotpoint).
 5. KitchenAid; a division of Whirlpool Corporation.
 6. LG Appliances.
 7. Maytag; a division of Whirlpool Corporation.
 8. Sears Brands LLC (Kenmore).
 9. Sharp Electronics Corp.
 10. Whirlpool Corporation.
- B. Overhead Exhaust Hood:
 1. Basis-of-Design Product: To be determined.
 2. Type: Wall-mounted, exhaust-hood system.
 3. Dimensions:
 - a. Width: 30 inches.
 4. Exhaust Fan: Three-speed fan built into hood and with manufacturer's standard capacity.

- a. Venting: Vented to outside through wall with weatherproof wall cap, backdraft damper, and rodent-proof screening.
 - b. Fan Control: Hood-mounted fan switch, with separate hood-light control switch.
5. Duct Type: 3-1/4 by 10 inches rectangular.
 6. Finish: Baked enamel.
 - a. Color: White.
 7. Features:
 - a. Permanent, washable aluminum mesh filter(s).
 - b. Built-in lighting.

2.3 REFRIGERATOR/FREEZERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated or comparable product by one of the following:
 1. Amana; a division of Whirlpool Corporation.
 2. BOSCH Home Appliances.
 3. Electrolux Home Products (Frigidaire).
 4. General Electric Company (Hotpoint).
 5. KitchenAid; a division of Whirlpool Corporation.
 6. LG Appliances.
 7. Maytag; a division of Whirlpool Corporation.
 8. Sears Brands LLC (Kenmore).
 9. Sharp Electronics Corp.
 10. Whirlpool Corporation.
- B. Top-Mount Refrigerator (Community Building): Where this designation is indicated, provide refrigerator/freezers complying with the following:
 1. Products: Available products include the following:
 - a. General Electric: TAX10SNX.
 2. Type: Freestanding, frost-free, two-door, top-mount freezer refrigerator/freezer with ABS thermoplastic-copolymer interior cabinet liners.
 3. Refrigerator Storage Capacity: 7.9 cubic foot total interior refrigerator volume measured according to ANSI/AHAM HRF-1 and certified by AHAM.
 4. Temperature Controls: Separate temperature controls for each compartment and a switch for condensation-control heating element at freezer opening.
 5. Standard storage features include the following:
 - a. Fresh Food Compartment:
 - 1) Vegetable crisper.
 - 2) Utility bin.
 - 3) Dairy compartment.

6. Finish: Porcelain enamel on steel.
 - a. Color: White.
 7. Standard features include the following:
 - a. Interior light in fresh food compartment.
 - b. Adjustable rollers.
 - c. Adjustable compartment shelves.
- C. ADA-Compliant Dishwasher (Accessible Living Units): Where this designation is indicated, provide dishwashers listed by UL and complying with the following:
1. Products: Available products include the following:
 - a. General Electric: Model GLDA690PWW
 2. Type: Automatic, built-in, under-the-counter dishwasher; sized to replace 24-inch base cabinet; operable at water pressures from 15 to 120 psi.
 3. Tub and Door Liner: Stainless steel.
 - a. Detergent Dispenser: Sealed detergent and automatic rinsing-aid dispensers in door liner.
 4. Rack System: Nylon-coated sliding dish racks with removable silverware basket.
 5. Operation: Four wash cycles with hot-air and heat-off drying cycle options.
 6. Controls: Solid-state, electronic, press-to-start type.
 7. Front Panel Finish: Manufacturers standard, trimless panels.
 - a. Color: White.
 8. Standard features include the following:
 - a. Full-extension, vinyl-coated, upper and lower dish racks.
 - b. Removable silverware basket.
 - c. Sound-absorbing exterior insulation blanket around tub and back.
 - d. Soft food disposer.
 - e. Self-cleaning food-filter system.
 9. Optional features include the following:
 - a. Delay start feature.

2.4 DISHWASHERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated or comparable product by one of the following:
 1. Amana; a division of Whirlpool Corporation.

2. BOSCH Home Appliances.
3. Electrolux Home Products (Frigidaire).
4. General Electric Company (Hotpoint).
5. KitchenAid; a division of Whirlpool Corporation.
6. LG Appliances.
7. Maytag; a division of Whirlpool Corporation.
8. Sears Brands LLC (Kenmore).
9. Sharp Electronics Corp.
10. Whirlpool Corporation.

B. Dishwasher (Living Units): Where this designation is indicated, provide dishwashers listed by UL and complying with the following:

1. Products: Available products include the following:
 - a. General Electric: Model GSD2230ZWW
2. Type: Automatic, built-in, under-the-counter dishwasher; sized to replace 24-inch base cabinet; operable at water pressures from 15 to 120 psi.
3. Tub and Door Liner: Porcelain enamel.
 - a. Detergent Dispenser: Sealed detergent and automatic rinsing-aid dispensers in door liner.
4. Rack System: PVC-coated sliding dish racks with removable silverware basket.
5. Operation: Five wash cycles with hot-air and heat-off drying cycle options.
6. Controls: Rotary-dial, turn-to-start type.
7. Front Panel Finish: Manufacturers standard, reversible panels with choice of colors for door front and lower access panel.
 - a. Color: White.
8. Standard features include the following:
 - a. Full-extension, vinyl-coated, upper and lower dish racks.
 - b. Removable silverware basket.
 - c. Sound-absorbing exterior insulation blanket around tub and back.
 - d. Soft food disposer.
 - e. Self-cleaning food-filter system.

2.5 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, power connections, and other conditions affecting installation and performance of residential appliances.
- B. Examine roughing-in for piping systems to verify actual locations of piping connections before appliance installation.
- C. Examine walls, ceilings, and roofs for suitable conditions where overhead exhaust hoods will be installed.
- D. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written instructions.
- B. 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.
- C. Freestanding Equipment: Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.
- D. Range Anti-Tip Device: Install at each range according to manufacturer's written instructions.
- E. Utilities: See Divisions 22 and 26 for plumbing and electrical requirements.

3.3 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- B. Tests and Inspections:
 - 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.

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4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and components.
- C. An appliance will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain residential appliances.

END OF SECTION 113100