

SECTION 11 31 00

RESIDENTIAL APPLIANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Residential Appliances:
 - 1. Microwave Ovens.
 - 2. Refrigerator/freezers.
 - 3. Dishwashers.
 - 4. Washer/Dryer
 - 5. Range Hood.
 - 6. Free Standing Electric Range.

1.02 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. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. Residential Appliances: Comply with NAECA standards.
- D. Energy Ratings: Provide appliances that qualify for the EPA/DOE ENERGY STAR product labeling program.

1.03 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer of each appliance specified agrees to repair or replace residential appliances or components that fail in materials or workmanship within specified warranty period.
 - 1. Microwave Oven: Two-year limited warranty for defects in the magnetron tube.
 - 2. Refrigerator/Freezer: Two-year limited warranty for in facility service on the sealed refrigeration system.
 - 3. Dishwasher: Two-year warranty for in facility service against deterioration of tub and door liner.
 - 4. Washer/Dryer: Two-year limited warranty for in facility service.
 - 5. Range/Oven: Two-year limited warranty for in facility service
 - 6. Range Fume Hood: Two-year limited warranty for in facility service

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
 - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to products specified.
 - 2. Basis-of-Design Product: The design for each residential appliance is based on the product named. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.

2.02 COOKING APPLIANCES

- A. Microwave Oven:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a) General Electric Company, Whirlpool, Kenmore, Kitchen Aid
2. Microwave Oven
 - a) Basis-of-Design Product: General Electric .7 cu. ft. capacity countertop microwave oven. Model #JES1072SHSS.
3. Dimensions:
 - a) Width: 18 ¼”
 - b) Depth: 13 7/16”
 - c) Height: 10 7/8”
4. Capacity:
 - a) Total Capacity: .7 cu. ft.
5. Power Requirements:
 - a) 1,200 watts.

B. Free Standing Electric Range:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a) General Electric Company, Whirlpool. Kenmore, Kitchen Aid
2. Electric Range:
 - a) Basis-of-Design Product: GE 30” Free Standing Electric Range, Model #JBS45DFBB
3. Dimensions:
 - a) Width: 29 7/8”
 - b) Depth: 28 ¾”
 - c) Height: 47”
4. Capacity:
 - a) 5.0 Cubic Feet Oven Capacity
5. Color: Selection from manufacturer’s standard colors.

C. Range Hood:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a) General Electric Company (Basis-of-Design)
2. Range Hood:
 - a) Basis-of-Design Product: GE Range Hood, Model # CV936MSS
3. Dimensions:
 - a) Width: 29 7/8”
 - b) Depth: 17 ½”
 - c) Height: 21”
4. Color: Selection from manufacturer’s standard colors.

5. Coordination: Denver Fire Department requires Ansul fire suppression for residential range hoods in schools. Furnish and install Ansul Fire Protection System.

2.03 REFRIGERATION APPLIANCES

A. Refrigerator/Freezers:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a) General Electric Company, Whirlpool, Kenmore,
2. Refrigerator/Freezer: Two-door refrigerator/freezer with freezer at bottom and complying with AHAM HRF-1.
 - a) Basis-of-Design Product: General Electric Company (GE); GE ENERGY STAR 21.0 cubic feet Bottom-Freezer Refrigerator, Model #GBE21DGKWW.
3. Type: Freestanding
4. Dimensions:
 - a) Width: 32 ¾"
 - b) Depth: 32 ½"
 - c) Height: 66 ¾"
5. Refrigerator Features:
 - a) Interior light in refrigeration compartment.
 - b) Compartment Storage: (2) humidity crispers.
 - c) Door Storage: Modular compartments, Gallon milk-container storage.
6. Freezer Features: One freezer compartment(s) with door(s).
 - a) Automatic defrost.
 - b) Interior light in freezer compartment.
 - c) Factory install icemaker.
 - d) Automatic icemaker and storage bin.
7. Color/Finish: Porcelain Enamel, selection from manufacturer's standard colors.

2.04 CLEANING APPLIANCES

A. Dishwashers

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a) General Electric Company (Basis-of-Design)

B. Dishwasher: Complying with AHAM DW-1 and ASSE 1006.

1. Basis-of-Design Product: General Electric Company (GE); GE Tall Tub Built-In Dishwasher, Model #GSD3301KWW.
2. Type: Tall Tub
3. Dimensions:
 - a) Width: 24"
 - b) Depth: 24"

- c) Height: 32-11/32"
- 4. Tub and Door Liner: Manufacturer's standard with sealed detergent and automatic rinsing-aid dispensers.
- 5. Controls: Electronic front control with 9 touch pads. 4 cycles/4 options.
- 6. Features:
 - a) Delay start 2/4/8 Hr.
 - b) Hot Start
 - c) Heated Dry On/Off
 - d) Hot Wash.
- C. Washer/Dryers
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a) General Electric Company (Basis-of-Design)
- D. Washer:
 - 1. GE ENERGY STAR 4.3 DOE cubic feet capacity frontload washer with stainless steel basket, Model #GFWN1600JWW.
- E. Dryer:
 - 1. GE 7.2 cubic feet capacity electric dryer, Model #GTD33EASKWW.
- F. Dimensions:
 - 1. Washer:
 - a) Width: 27"
 - b) Depth: 32"
 - c) Height: 39 3/8"
 - 2. Dryer:
 - a) Width: 27"
 - b) Depth: 32 3/16"
 - c) Height: 39 3/8"
- G. Color:
 - 1. Color: Selection from manufacturer's standard colors.
- H. Features:
 - 1. ADA Compliant
 - 2. Energy Star Qualified

2.05 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippalbe, 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

3.01 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify proper surface backing for anchoring equipment.
- B. Examine electrical connection to verify actual location and outlet configuration before appliance installation.
- C. Examine walls, ceilings, and roofs for suitable conditions where overhead exhaust hoods will be installed.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.
- E. Prepare written report, endorsed by installer, listing conditions detrimental to performance of the work.

3.02 INSTALLATION

- A. General: Comply with manufacturer's written instructions.
- B. Place unit in final location after finishes have been completed. Verify that clearances are adequate to properly operate equipment.
- C. Utilities: Refer to Division 26 for electrical requirements.

3.03 ADJUSTING

- A. Test each component of appliances to verify proper operation. Make necessary adjustments.
- B. Verify that accessories required have been furnished and installed.
- C. Remove packing material and leave unit in clean condition, ready for operation.

3.04 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain ceramic pottery kiln.

END OF SECTION-11 31 00