**SECTION 23 38 00**

**SPECIFICATIONS**

**TAG: Residential Kitchen Hood**

**PART 1 - GENERAL**

1. **SUMMARY**
2. Residential Range Hood
3. **SUBMITTALS**
4. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes.
5. The manufacturer shall supply complete computer-generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.
6. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
7. **QUALITY ASSURANCE**
8. Residential Hoods are ETL-listed to standard UL 507 when installed in accordance with the installation instructions.
9. Residential CORE Fire Systems are ETL-listed to standard UL 300A when installed in accordance with the installation instructions.
10. The Safety Control Board is ETL-listed to standard UL 60730-1, UL 60730-2-9, CSA E60730-1, CSA E60730-2-9.
11. The hood shall have the size, shape, and performance specified on drawings.
12. **WARRANTY**
13. All units shall be provided with the following standard warranties:
	* 1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.
14. This warranty shall not apply if:
	* 1. The equipment is not installed by a qualified installer per this installation guide; the operation manual should be kept with the equipment once installation is complete.
		2. The equipment is not installed in accordance with Federal, State, and Local codes and regulations.
		3. The equipment design or sizing is not approved per MANUFACTURER'S specifications.
		4. The equipment is misused, neglected, or not maintained per the MANUFACTURER'S maintenance instructions.
		5. The equipment is exposed to elevated temperatures due to a fire originating in the building, hood, fan, vent, or kitchen appliances.
		6. The equipment is not operated within its published capacity.
		7. The equipment is operated, tested, or stored in the presence of chlorines, solvents, refrigerant vapors, caustic substances, halogenated compounds, or other conditions that could cause condensation of corrosive materials within or on the system.
		8. The equipment is substituted or connected with parts not manufactured per Original Equipment Manufacturer.
		9. The invoice is not paid within the terms of the sales agreement.
15. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

**PART 2 ‑ PRODUCTS**

1. **GENERAL**
2. WRH/WRH-T is a UL 507 listed hood for use over residential appliances in a commercial setting.
3. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.
4. **CONSTRUCTION**
5. Construction type shall be type 304 or 430 Stainless Steel. Dependent on metal selection.
6. The manufacturer and ETL shall determine individual component construction.
7. Construction shall be dependent on the structural application to minimize distortion and other defects.
8. The hood shall be furnished with U.L. classified filters, supplied in size and quantity as required by ventilator.
9. **OPTIONAL FIRE SYSTEM**
10. Fire system listed to UL300A.
11. The system is capable of automatic detection and actuation via an electric thermal detector located in the hood capture area. When the temperature exceeds the rating of the sensors, the fire system is engaged. Remote manual activation is also available via a remote pull station.
12. **LIGHTING**
13. Recessed round fixture with dimmable LED light.
14. **FILTERS**
15. Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.
16. Kleen-Gard Stainless Steel Baffle filter with handles and bottom hanging hook, UL Classified.
17. **ACCESSORIES**
18. Quarter end panel.
19. Splash panel(s) selected: Backsplash, Backsplash (inside corner), Backsplash (outside corner), Sidesplash.
20. End Standoff.
21. Wrapper(s) selected: Decorative, Standard, Wrapper Channel.
22. Drop-in Perforated Supply Plenum.
23. Insulation for back of hood.
24. Insulation for top of hood.
25. Residential backdraft damper.
26. Wall end cap.

**PART 3 ‑ EXECUTION**

1. **EXAMINATION**
2. Examine areas and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of work.
3. If unsatisfactory conditions exist, correct conditions prior to installation.
4. **APPLICATION**
5. Suitable for use in commercial cooking installations for the removal of smoke and grease-laden vapors.
6. **INSTALLATION**
7. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.
8. **CONNECTIONS**
9. Piping installation requirements are specified in other Division 23 Sections. Drawings indicate the general arrangement of piping, fittings, and specialties.