

MODEL CIX BREECHING AND CHIMNEY SPECIFICATION

**-Grease Duct-**

**1. SCOPE**

- 1.1 The pre-fabricated grease duct and components shall be listed as a Grease Duct by Intertek Testing Services (ETL) in the United States and Canada according to UL/ULC standard for use with commercial cooking equipment, as described in NFPA 96, which produce exhausted grease laden vapors at a maximum temperature of 500°F under continuous firing.
- 1.2 The duct shall be listed for temperatures of 500°F under continuous firing and 2000°F in brief forced firing according to UL-1978.
- 1.3 The factory built grease duct system shall be made in accordance with NFPA 96.

**2. CONSTRUCTION**

- 2.1 Each section shall be made of two steel cylinders separated by 2 inch of high temperature fiber insulation. The published clearance of 2 inch to combustible shall be the result of UL standard.
- 2.2 The inner wall (flue) shall be constructed from 304 or 316 stainless steel, 0.035 inch thick. The outer wall (casing) shall be constructed from galvalume, 304 stainless or 316 stainless steel, 0.018 inch thick for diameter 5 inch to 24 inch and 0.024 inch for diameter 26 inch to 36 inch.
- 2.3 Non-stainless steel surfaces exposed to the outer temperature shall be protected by a minimum of one base coat of primer and one finish coat of corrosion resistant paint suitable for high temperature. All primer and paint must be supplied by the contractor and shall be equivalent to series 4100 or 9400 as manufactured by Rust-Oleum. An outer wall made of 304 or 316 stainless steel doesn't need to be painted.
- 2.4 The inner wall (flue) shall be laser or plasma welded.
- 2.5 All section joints shall be self-centering to ensure proper spacing between the inner wall (flue) and the outer wall (casing).
- 2.6 All section joints are connected and sealed with factory supplied locking bands at the outer wall (casing) only. Use appropriate sealant as specified in the manufacturer's installation manual.
- 2.7 The chimney shall be designed to compensate for thermal expansion.
- 2.8 System shall be designed to provide access for inspection and cleaning of each change of duct direction, permit drainage of grease residue through a duct section and enable the system to allow various types of fire suppression equipment to be installed into the grease ductwork.

**3. INSTALLATION**

- 3.1 The installation shall be in accordance with the manufacturer's installation instructions and recommendations and shall conform to all applicable state and local codes.
- 3.2 All section joints are held in place by one mechanical locking band and sealed with appropriate sealant.

- 3.3 Ducts expanding above roof surfaces must terminate as outlined in local building codes or as specified by NFPA 96.
- 3.4 The entire stack system from the appliance to the termination, including all accessories, except as noted, shall be from one manufacturer.
- 3.5 Roof/Wall penetrations shall be suitable for the specified roof construction and shall comply with the manufacturer's installation instructions.

#### **WARRANTY**

- 3.4 The manufacturer shall warranty the chimney for *fifteen (15) years* from date of delivery for functional failure and failure due to condensate in the vent system. See manufacturer's warranty for details.
- 3.5 The sizing of the complete vent system shall be guaranteed by the manufacturer and a copy of the sizing calculations submitted to the engineer for review and approval prior to the contractor placing an order and release.
- 3.6 The manufacturer shall submit a venting drawing for approval showing all vent system components. The contractor must position all venting components, equipment, water and gas piping to accommodate the vent system design.

END OF SECTION 15575