

## Specifications for Vent Master KVS Kiosk Ventilation System

### 1.0 Kiosk cooking, grease and odor control system.

#### 1.0 General

The kiosk ventilation system shall be a complete UL listed system tested in accordance with NFPA 96 and UL 197-1994 for integral recirculation systems for commercial electric cooking appliances. It shall consist of an exhaust filter hood, stainless steel back wall and a filtration fan tower. The system shall be manufactured by Vent Master.

#### 1.0 Construction

The hood shall be a stainless steel tapered canopy with GFIII UL listed baffle filters. The hood shall be mounted 6' 0" from finished floor (6' 2" front clearance) on a stainless steel, 3" air wall. Hood and air wall shall be approved for mounting against a combustible surface.

The filtration tower shall contain the filters, fan and motor, fire protection, odor control system and the electrical cabinet. The filter section shall be complete with three stages of filtration. The first stage shall be a 4" pleated filter rated at 40% per ASHRAE 52-76. The second stage shall be a 22", 95% efficiency bag filter. The final stage shall be a 12" deep absolute filter rated at 99% DOP to 0.3 micron and shall have a locking device to ensure zero air bypass. All filter tracks shall have monitors to prevent operation without filters. In addition, there shall be four pressure switches to monitor each filter stage and the total filter bank. A UL listed fire damper with fusible link shall be located at the outlet of the filter section.

The odor-reducing section shall consist of a liquid atomizer system with timers mounted in the remote control panel to switch on, off and cycle the system to provide infinite adjustment. Charcoal filters are not acceptable.

The backward inclined fan in the filtration tower shall draw the cooking exhaust through the filtration sections, odor reducing section and discharge through the top of the tower.

The KVS assembly shall be stainless steel construction, with all exposed welds ground and polished to the original finish of the metal. The system shall be fully self-supporting, pre-piped and wired for a fully automated operation. The system shall be factory tested and balanced.

#### 2.0 Controls

The filtration tower shall provide all the power, fuses and circuit protection for the cooking equipment utilizing a single point power connection. The tower shall contain the fire protection for total coverage under the hood regardless of the cooking equipment type or arrangement.

#### 3.0 Approvals

Kitchen grease and odor control system shall be UL listed and labeled. The installation shall comply with NFPA 96, chapter 10.