

SPECIFICATION

COMBINATION – SHORT CIRCUIT/AIR CURTAIN – VI SERIES

The model VI series ventilation canopies shall provide a combination short circuit internal supply air and vertically discharged supply air curtain as manufactured by Duo-Aire and shall be of the following design:

The ventilator shall be a modified double shell design in a wall (W-VI) or island design (I-VI) and shall be constructed of 18 gauge 300 series stainless steel where visible and aluminized steel where concealed. The ventilator shall be U.L. Listed and shall introduce supply air through the ventilator via two means; internally to short circuit the air through diffusers, and vertically as an air curtain through diffusers.

Internally, the supply air shall be introduced at a high velocity through linear diffusers and shall replace between 60-70% of exhaust air rate through internal diffuser dependent upon cooking battery. Vertically, supply air shall be introduced through an air curtain diffuser at a low velocity creating an air curtain to enhance capture and will replace between 20-25% of exhaust air rate. Supply air through air curtain may have to be tempered dependent upon the location. U.L. tested fire damper and air volume damper shall be provided in the supply collars provided by the factory. The design exhaust CFM of the ventilator shall be sized per manufacturer's U.L. certification for 400, 600 and 700 degree cooking battery.

The ventilation canopy shall include the following standard features:

1. Continuous welded external seams and corners, ground and polished as required to match metal finish.
2. U.L. tested aluminum grease filters
3. U.L. tested incandescent lights
4. Three inch rear air space, where required
5. Hanging brackets
6. Installed exhaust and supply collars
7. One inch thick supply air plenum insulation
8. Linear diffusers installed in short circuit and air curtain supply air slots
9. Mounted hood control panel with fan and light switches wired in conformance with National Electric Code
10. Removable grease trough and cup

All ventilators shall bear the U.L. label and NSF listing. The ventilator shall conform to size and configuration as detailed on plans and shall meet performance requirements as scheduled.

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