

SPECIFICATION

SHORT CIRCUIT VENTILATOR (S SERIES)

The model SC-S Series ventilation canopies shall be short circuit design as manufactured by Duo-Aire, Inc. and shall be of the following design:

Internal supply air design shall be in wall (SC1S), single island (SC2S) or double island (SC3S) models.

The ventilator shall be modified double shell design, constructed of 18 gauge 300 series stainless steel. Stainless steel shall be of U.L. manufacture and shall meet U.S. standards for gauge, thickness and alloy composition. The ventilator shall be U.L. listed and shall be designed to introduce replacement supply air directly into the exhaust capture area through a full length supply air slot, internally angled to direct the air toward the exhaust filters, at a high velocity. The total quantity of supply air shall equal up to 80% of the exhaust air quantity. The supply air plenum shall have a removable panel, full length of the supply air slot, for access to the supply air plenum. The supply air plenum shall be fully insulated with one inch thick foil backed insulation to prevent condensation. The insulation shall be approved by the National Sanitation Foundation for its intended use.

The supply air plenum shall have two fixed aluminum perforated metal air distribution baffles, to insure equal distribution of supply air along the entire length of the supply air slot. The supply air plenum shall also contain an air inlet collar, complete with U.L. listed fire damper and air volume damper per requirements of N.F.P.A. 96. Supply air shall be discharged through a perforated diffuser the full length of ventilator.

The design exhaust CFM of the ventilator shall be sized per manufacturer's U.L. certification for test performance for either low, medium or high heat/high grease application. The combined airflow designs shall be verified by Underwriters Laboratories test results and manufacturer's listing requirements.

The ventilation canopy shall contain, as standard features, the following:

1. All stainless steel construction - all surfaces, exposed or non-exposed shall be stainless steel.
2. Continuous welded external seams and corners, ground and polished to match adjacent metal finish.
3. A full complement of U.L. classified aluminum baffle type grease filters.
4. Stainless steel grease trough and grease cup, removable for easy cleaning.

Duo-Aire, Inc. 316 W. Central Avenue, Suite 505, Winter Haven, FL 33880
Phone: 863-294-2272 Fax: 863-294-2704 E-Mail: gregb@ventilationmarketing.com

5. U.L. listed incandescent lights, pre-wired to junction box on top of ventilator and control switch
6. Face mounted stainless steel control panel with pre-wired switch for ventilator lights and pre-wired switch for exhaust and supply fan, with indicator light.
7. Three inch rear air space full length of ventilator.
8. Concentric or parallel duct collars, as required.

Other electrical switches and indicator lights, as required, shall be mounted and pre-wired in the control panel and permanently labeled for function and operation mode. All switches and indicator lights shall terminate in junction boxes on top of ventilator, and shall be color coded and number keyed using a terminal strip.

All wiring shall be in conformance with the National Electrical Code and applicable U.L. requirements.

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.

Kitchen ventilation canopies of other manufacturer's differing in any aspect from this specification must be submitted for review and prior approval at least three (3) weeks prior to bid date, except that no manufacturer's ventilator shall be accepted if it deviates from the materials/construction requirement listed under "standard features".

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SPECIFICATION

SHORT CIRCUIT VENTILATOR (D SERIES)

The model SC-D Series ventilation canopies shall be short circuit design as manufactured by Duo-Aire, and shall be of the following design:

Internal supply air design shall be in wall (SC1D), single island (SC2D) or double island (SC3D) models.

The ventilator shall be modified double shell design, constructed of 18 gauge 300 series stainless steel. Stainless steel shall be of U.L. manufacture and shall meet U.S. standards for gauge, thickness and alloy composition. The ventilator shall be U.L. listed and shall be designed to introduce replacement supply air directly into the exhaust capture area through a full length supply air slot, internally angled to direct the air toward the exhaust filters, at a high velocity. The total quantity of supply air shall equal up to 80% of the exhaust air quantity. The supply air plenum shall have a removable panel, full length of the supply air slot, for access to the supply air plenum. The supply air plenum shall be fully insulated with one inch thick foil backed insulation to prevent condensation. The insulation shall be approved by the National Sanitation Foundation for its intended use.

The supply air plenum shall have two fixed aluminum perforated metal air distribution baffles to insure equal distribution of supply air along the entire length of the supply air slot. The supply air plenum shall also contain an air inlet collar, complete with U.L. listed fire damper and air volume damper per requirements of N.F.P.A. 96. Supply air shall be discharged through a linear diffuser the full length of ventilator and shall be an extruded aluminum diffuser with 15° non-adjustable vanes.

The design exhaust CFM of the ventilator shall be sized per manufacturer's U.L. certification for test performance for either low, medium or high heat/high grease application. The combined airflow designs shall be verified by Underwriters Laboratories test results and manufacturer's listing requirements.

The ventilation canopy shall contain, as standard features, the following:

1. All stainless steel construction - all surfaces, exposed or non-exposed shall be stainless steel.
2. Continuous welded external seams and corners, ground and polished to match adjacent metal finish.
3. A full complement of U.L. classified aluminum baffle type grease filters.
4. Stainless steel grease trough and grease cup, removable for easy cleaning.

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5. U.L. listed incandescent lights, pre-wired to junction box on top of ventilator and control switch.
6. Face mounted stainless steel control panel with pre-wired switch for ventilator lights and pre-wired switch for exhaust and supply fan, with indicator light.
7. Three inch rear air space full length of ventilator.
8. Concentric or parallel duct collars, as required.

Other electrical switches and indicator lights, as required, shall be mounted and pre-wired in the control panel and permanently labeled for function and operation mode. All switches and indicator lights shall terminate in junction boxes on top of ventilator, and shall be color coded and number keyed using a terminal strip.

All wiring shall be in conformance with the National Electrical Code and applicable U.L. requirements.

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.

Kitchen ventilation canopies of other manufacturer's differing in any aspect from this specification must be submitted for review and prior approval at least three (3) weeks prior to bid date, except that no manufacturer's ventilator shall be accepted if it deviates from the materials/construction requirement listed under "standard features".

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