

SPECIFICATIONS

FRONT FACE GRILLS – FDH SERIES

The model FDH series ventilation canopies shall be the front fact diffuser supply air discharge design as manufactured by Duo-Aire, Inc. and shall be on the following design:

Front, horizontal supply air design shall be in wall (WFDH), single island (SIFDH) or double island (IFDH) models. The ventilator shall be a modified double shell design, constructed of 18 gauge 300 series stainless steel. Stainless steel shall be of U.S. 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 air horizontally along the front of the ventilator in a quantity equal to at least 80% of the volume of the air to be exhausted. The supply air shall be discharged through vertically mounted aluminum face grills with both horizontal and vertical adjustable vanes. Perforated metal or opposed blade dampers shall be installed behind each diffuser to even out airflow, dependent upon specific requirements.

The supply air plenum shall have a fixed aluminum perforated metal air distribution baffle to insure equal distribution of supply air along entire length of the discharge face. The supply air plenum shall also contain an air inlet collar, complete with U.L. listed fire and air volume damper per requirements of NFPA 96.

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

STANDARD FEATURES

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. Factory mounted collars, concentric or parallel design, meeting the requirements of U.L. listing and NFPA 96.
4. A full compliment of U.L. classified aluminum baffle type grease filters.

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5. Stainless steel grease trough and grease cup, removable for easy cleaning.
6. U.L. listed incandescent lights, pre-wired to junction box on top of ventilator and control switch.
7. A full compliment of single deflection aluminum face grills, with balancing dampers, mounted at the top front edge of the ventilator.
8. A face mounted control stainless steel panel, with pre-wired switch for exhaust and supply fan wit indicator lights.
9. Three inch rear air space full length of ventilator.

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 manufacturers 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 requirements listed under "standard features".

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