Canopy hoods as specified shall be as per catalog number length, 36 inches wide and 24 inches high. Hood shall be fabricated of 18-gauge steel. Steel shall be high quality cold rolled, mild steel conforming to ASTM, specification A1008, with all gauges U.S. standard. All joints shall be spot welded, and where required to be watertight, shall be soldered.

Canopy hoods shall be fabricated in single section units, for ease and convenience in handling and installation. Four, 1/2 inch diameter rods solid aluminum, attaches to No. 16 gauge braces shall provide installation means. A six inch, wide facia shall be on front and both ends with roof sloping three ways to a one inch high, circular exhaust outlet.

Exhaust duct, furnished by others, shall be 12 inch, diameter. Exhaust duct, furnished by others, shall be connected to the canopy hood and shall provide the proper exhaust in cfm. as specified. The underside of hood shall have a removable two piece baffle, set up, 3 inch with a one inch slot around the entire perimeter. Baffle 3/4 inch, No. 11 gauge angles shall support the baffle. A water tight condensation gutter shall surround interior perimeter of canopy hood.

Finish of canopy hood shall be a urethane powder coat on all exterior and interior surfaces, resistant to the most commonly found chemicals in a general chemistry lab.

**Canopy Fume Hood:**

# A. Performance

The canopy hood, when installed and connected to a blower of the proper size, shall be capable to collecting and exhausting heat, steam and odors from the work area located directly beneath the hood.

# B. Components

The hood shall consist of a body, baffles, vent collar and support rods.

# C. Body

The body shall be constructed of 18 gauge cold rolled steel and shall be 24 inches high and 26 inches wide. Length shall be in even feet ranging from 3 to 8 feet. The body shall have a sloping top. The back of the unit shall be perpendicular to the base to allow easy mounting against a wall. Each corner of the body shall be fitted with a rod support bracket fabricated from 16 gauge cold rolled steel.

Four 5/8 inch holes shall be cut through the slopping top to provide for installation of support rods. The body shall contain an open condensation gutter around the entire inner perimeter. The gutter shall be 1/2 inch deep, when measured from the base of the hood, and shall be watertight. All body components shall be spot welded in place using good spot welding techniques. The entire body shall be finished with a reagent resistant electrostatically applied powdercoat, or equal.

# D. Baffles

Hoods ranging in length from 5 to 8 feet shall have two baffles. Shorter hoods shall have one baffle. In all cases, baffles shall be sized to allow a one inch slot around the inner perimeter of the hood. When dual baffles are required, they shall be separated by a one inch slot. Baffles shall be fabricated from 18 gauge cold rolled steel. Four steel angles, 11 gauge by 1-1/2 inch wide shall be attached to each baffle to provide support within the body. Baffles shall be finished with a reagent resistant to the most commonly used chemicals found in the lab.

# E. Vent Collars

Collars shall be fabricated from 22 gauge steel. Diameter shall be 12 inch outside, on all hoods respectively.

# F. Support Rods

Four, 1/2 inch aluminum, support rods, shall be supplied with each hood. Rods shall be machined to form a cleave to fit the support rod bracket of the body. The opposite end of the rods shall be threaded for a length of 3 inches. The overall length of rods shall be in accordance with customer requirements.

**END OF SECTION**