

# Fume Hoods

## Operation and Maintenance Manual Supplement

For information on operation, maintenance and installation instructions, refer to the manual provided with this product.



CAUTION Symbol—requires attention to the explanatory text



Protective Ground Symbol

### Technical Specifications

This product is classified as Equipment Class I, Pollution Degree 2, Installation Category II. Each circuit rated 120V, 16A, 60Hz (maximum seven circuits).

Electrical supply for each circuit:

Voltage – 120 Volt AC

Amperage – 20 Amps

Frequency – 60 Hertz

(maximum seven circuits)



Main supply voltage fluctuations are not to exceed 10% of the nominal supply voltage. Refer to label on main junction box for specific circuit voltage requirements (see Figure 1).

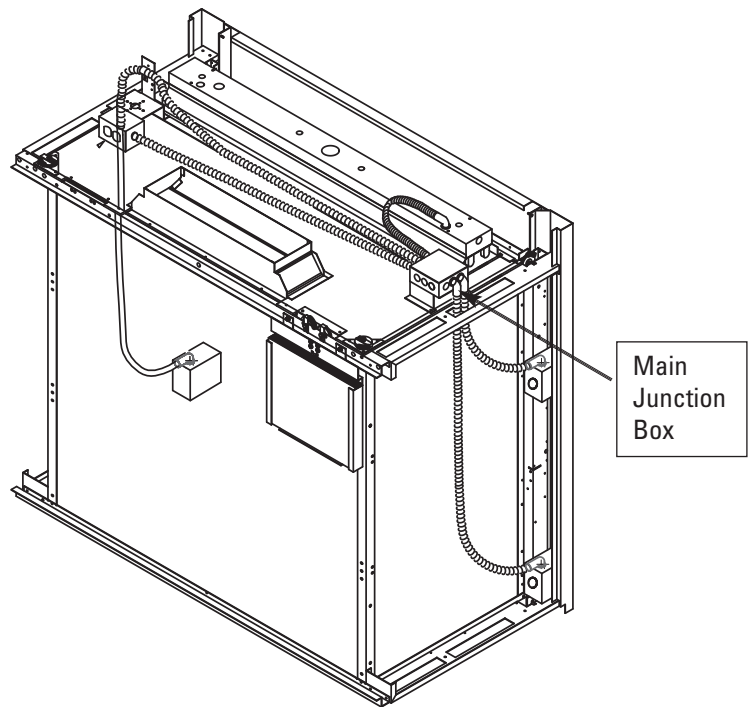


Figure 1

Typical fume hood wiring layout

## Receptacle Ratings

Receptacles rated at 120V, 16A, 60Hz.

All hood receptacles are labeled with a circuit number. The circuit rating is located on the corner-post base label. **Exception:** a hood with only **one** circuit has a corner-post base label **only**; this label lists the circuit rating.

## Recommended Operating Conditions

Altitude – up to 7,000 feet

Temperature – room temperature

Humidity – 40% to 60%



For extreme temperature or humidity, please consult a Hamilton Product specialist to determine the correct application.

## Plumbing

Recommended service fixture operating pressure ranges:

Gas – .2 to .75 PSI

Air – 15 to 25 PSI

Vacuum – 9 to 28 inches of Hg

Oxygen – 15 to 20 PSI

Steam – 15 to 20 PSI

Water – 50 to 80 PSI

Argon – 10 to 15 PSI

Nitrogen – 10 to 15 PSI

Hydrogen – 1 to 5 PSI

Distilled/Deionized Water – 20 to 40 PSI

## Junction Box Wiring Requirements

All wires in the main junction box are labeled with circuit number and polarity. Consult a licensed electrician for proper wiring installation. All fume hood wiring is 12 AWG solid copper wire, except standard T8 light fixtures which are 12 AWG stranded copper wire. The main junction box contains a label that states circuit voltage and amperage requirements.

## Circuit Breaker for Protection

A 20 amp circuit breaker required; it is recommended that the circuit breaker be located near the equipment.

## Warning



Failure to use the equipment in a manner not specified by the manufacturer may impair the protection provided by the fume hood.

## Warning



Before performing any electrical work on the fume hood, disconnect circuit breaker power. For products with multiple circuits, ensure ALL circuit breakers and all supplies are disconnected. Ensure that the power cannot be switched on again, and that the hood is voltage free.