



BUILDING & SAFETY

KITCHEN HOOD TEST DATA

www.LasVegasNevada.gov/BuildingPermits

Phone: (702) 229-6251

Date: _____ Contractor Name: _____ Contractor License #: _____

Permit #: _____ Application #: _____ Job Name: _____

Job Address: _____

Hood Location: _____ Plan Sheet #: _____ Testing Equipment Type: _____

1. Type of Hood: _____ Actual Hood Size: _____ ft. X _____ ft. = _____ sq ft.
(hood width) (hood length) (hood area)

2. List all equipment under hood: _____

3. Required quantity of air (see UMC 2018 for appropriate formula) _____ ft X _____ ft. = _____ CFM
(hood width) (hood length) (hood area)

4. Actual Quantity of measured air: _____ CFM Actual Total Filter Area: _____ sq ft.
(actual volume) (filter area)

5. Filter Air flow rate per sq ft: _____ CFM - _____ sq ft = _____ FPM
(CFM from #4) (filter area) (each filter)

6. Listed filter airflow rate = _____ FRM
(as shown on filter)

7. Actual Duct Size: _____ ft X _____ ft = _____ sq ft. or 0.79 X _____ ft = _____ sq ft.
(front width) (side width) (rectangular duct size) (duct diameter) (duct size)

10. Actual Grease Duct Air Velocity: _____ CFM - _____ sq ft. = _____ FPM
(CFM from #4) (Duct size from #7) (Duct Velocity)

11. Required duct system air velocity for shop made hoods: 500 FPM (min)/ 2500 FPM (max) or manufacturers stated velocity: _____ FPM (min) _____ FPM (max)

12. Makeup air source and size: _____ (total CFM)

ELECTRICAL INTERLOCK SWITCH CONNECTS THE EXHAUST AND MAKEUP AIR SYSTEMS

Person performing test

Title and Affiliation

The velocity in given size duct can be found using the formulas below. The minimum and maximum size allowance duct also be determined. By use of maximum velocities, shaft and duct sizes may be reduced to a minimum.

$144 \times Ah \times f \text{ divided by } Ad = V$

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Ah = hood area, in square feet

Ad = duct area, in square inches

F = exhaust factor, for type of equipment (UMC section 2002- g)

V = velocity, in lineal feet per minute

V min = 500 lineal feet per minute

V max = 2500 lineal feet per minute