Exhaust Ventilation Systems

(To be completed by hood manufacturer, contractor, or mechanical engineer and submitted with the building plans)

Facility name________________________________________ Date________________________

Site address________________________________________ Phone________________________

Hood information submitted by________________________________ Phone________________

1. Submit one (1) set of plans, drawn to scale (i.e., ¼ inch per foot), including:
   a) Front and side elevations for each system with exhaust and make-up air duct details.
   b) Floor plan showing the hood, make-up air registers and cooking equipment or dishwasher.

2. Submit one set of specification sheets with the performance curve for blower(s), filters and make-up air unit(s).

3. Submit a separate data sheet for each hood. For multiple hoods, identify each hood by name or number.

4. For clarification of requirements, refer to the current edition of the Uniform Mechanical Code (UMC), Chapter 5, “Commercial Hoods and Kitchen Ventilation”.

Hood (check applicable categories)

☐ Type I ☐ Type II Hood name or number________________________________________

☐ UL® listed exhaust hood ☐ Canopy* ☐ Compensating* ☐ Non-canopy ☐ Other____

*Provide a 6-inch overhang beyond the cooking equipment on all open sides. NOTE: No exposed horizontal piping within the hood canopy.

Manufacturer and model number of the UL® listed exhaust hood________________________________________

Size of Hood

Length________ x width_______ (inside dimensions) Type of metal________________________

Gauge________ Distance from lowest edge of hood to: cooking surface_________; floor________

Formula used for determining air flow: Q = 50A = __________

Q = 75A = __________
Q = 100A = __________
Q = 200A = __________

Alternate formula: Q = 100PD = __________

Listed CFM/linear foot or Other: Q = ________ = __________

Equipment exhausted by hood________________________________________

Exhaust Duct

Duct size_________ Area of duct_________ sq. ft.

Number of ducts_________ (1 duct per each 12 ft. of hood) Type of metal_________

Gauge_________ Exhaust duct velocity_________ FPM (CFM + sq. ft. of duct)

Grease ducts for a Type I hood must have a duct velocity between 1500-2500 feet per minute (FPM); 1800 FPM is recommended.
Grease Filters (Provide Engineering Data Sheets/cut sheets for all filters)

Manufacturer: ____________________________ Model: ____________________________
Rating: __________________ CFM at: __________ sp (static pressure)
Dimensions: _______ in. x _______ in. Functional surface area per filter: __________ sq. ft.
Are all the filters the same size? □ Yes □ No Size of filters used: __________
Number of filters used: __________ Total filter area: __________ sq. ft.
Number of blanks: __________ Size of blanks: _______ in. x _______ in.
Minimum distance between the lowest edge of the grease filters and the cooking surface: __________ in.
Average FPM design (flow rate) at the filter surface [Q (cfm) ÷ A (sq. ft.) = V (fpm)]: _______ FPM

Static Pressure

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<tr>
<th>Filters¹</th>
<th>Hood</th>
<th>Make-up</th>
<th>Hood Schematic</th>
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<td>_______ sp</td>
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Exhaust Fan/Blower (Provide Engineering Data Sheets for all exhaust and make-up air blowers)

Manufacturer: ____________________________ Model: ____________________________
Exhaust: __________ CFM at: __________ sp Blower: __________ RPM Horsepower: __________
Is the unit UL® listed under UL762 standard? □ Yes □ No □

Makeup Air Fan/Blower (The exhaust and makeup air systems must be connected by an electrical interlocking switch)

Manufacturer: ____________________________ Model: ____________________________
CFM: __________ at: __________ sp Duct size: __________ Duct area: __________ sq. ft.
Make-up air diffuser Type: __________ Number: __________ Mfr. & Model: __________

Average FPM design (flow rate) at the diffuser surface [Q (cfm) ÷ A (sq. ft.) = V (fpm)]: _______ FPM
(Note: 400 – 500 FPM is the average FPM design flow rate at the register surface [Q÷A =V] and is the recommended maximum for each diffuser)

Does the unit supply the required make-up air? □ Yes □ No □
Is the make-up air intake on the roof at least 10 feet from the exhaust blower? □ Yes □ No □

Note: Hood(s) must be tested before the final construction inspection. The hood designer or building contractor may elect to have that test performed by a licensed testing company or contractor. A written report of that test must be submitted to this Department before the final construction inspection.

Comments: ________________________________________________________________

The above information has been reviewed by ____________________________, REHS Date __________

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1 From hood manufacturer
2 From hood manufacturer
3 From mechanical engineer
4 From mechanical engineer
5 From mechanical engineer