

Appendix C - Plan Review Model Calculations

Food Establishment Plan Review Formulas

Print this sheet and collect the following information from plans. Information will be used to perform calculations.

Facility Name & Address: _____

Hot Water

List each type of plumbing fixture that uses hot water # proposed

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Proposed Size: _____ KW or _____ BTU's

Proposed Storage capacity: _____ gallons Thermal Efficiency: _____%

Proposed (for instantaneous water heaters): _____ gallons per minute (gpm) @ _____ degree rise

Proposed dishmachine booster heater:

Refrigerated Storage

By seats: # seats: _____ # meal periods: _____ Drive-Up Window: Y N

By # meals: # meals between deliveries: _____

Walk-in # or Name	Interior Height (ft)	Interior Length (ft)	Interior Width (ft)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Reach-In # or Name	Interior Depth (in)	Interior Width (in)	Interior Height (in)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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Dry Storage

By seats: # seats: _____ # meal periods: _____

Drive-Up Window: Y N

By meals: # meals between deliveries: _____

Storage Rooms

Interior Length (ft)

Interior Width (ft)

Usable room height (ft)

Or

For full height shelves

Total Shelving Length (ft)

Shelving Width (ft)

Usable room height (ft)

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Ventilation

Proposed make-up air (MUA) fan volume

MUA1= _____ cfm, MUA2=_____cfm, MUA3=_____ cfm

Proposed hood exhaust: hood 1=_____, hood 2=_____, hood 3=_____, hood 4=_____, hood 5=_____ cfm

Required hood exhaust:

Horizontal open perimeter & vertical distance from equipment to hood for each piece of equipment under each hood

Hood 1

Equipment	Alternate Formula		Main Formula
	Vertical Distance (ft)	Open Perimeter (ft)	Area of hood over equip.(sq. ft.)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Hood 2

Equipment	Alternate Formula		Main Formula
	Vertical Distance (ft)	Open Perimeter (ft)	Area of hood over equip.(sq. ft.)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Hood 3

Equipment	Alternate Formula		Main Formula
	Vertical Distance (ft)	Open Perimeter (ft)	Area of hood over equip.(sq. ft.)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Hood 4

Equipment	Alternate Formula		Main Formula
	Vertical Distance (ft)	Open Perimeter (ft)	Area of hood over equip.(sq. ft.)
_____	_____	_____	_____
_____	_____	_____	_____

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Hood 5 Equipment	Vertical Distance (ft)	Open Perimeter (ft)	Area of hood over equip.(sq. ft.)