

Grease Trap Sizing Example

The City does not provide sizing or design services. It is the owners responsibility to correctly size interceptors **according to the manufacturer’s recommendation**. There are several ways to size interceptors. *The following is one example* for determining drainage loads and is included to explain details normally left out of manufacturer’s forms. This should not be interpreted as City approved sizing criteria since it may not be applicable to the interceptor that you choose to install.

A. Determine the cubic content of each fixture by multiplying the length x width x depth (inches). Then, determine the capacity by dividing by 231 (number of cubic inches in one gallon). Sum these values.

<u>Fixtures</u>	<u>W</u>	<u>L</u>	<u>D</u>	<u>Inches³</u>	<u>Capacity</u>
_____	_____ x _____	_____ x _____	_____	= _____ /231	= _____ gallons
_____	_____ x _____	_____ x _____	_____	= _____ /231	= _____ gallons
_____	_____ x _____	_____ x _____	_____	= _____ /231	= _____ gallons
_____	_____ x _____	_____ x _____	_____	= _____ /231	= _____ gallons
				TOTAL A = _____	gallons

B. Determine the drainage load when the fixture is filled with water to 75% of capacity. (This assumes that 25% would be filled with dishes, etc.) And, determine the flow rate for a the drainage period. The drainage period is defined as the time it takes for the fixture to completely drain. Normally, this is 1 minute, but may be increased to 2 minutes if flow reducers are installed.

TOTAL A from above x 0.75 / _____ minutes = _____ GPM

C. For other fixtures:

Floor Sinks

Number of floor sinks x 4.0 = _____ x4.0
 OR Number of hose bibs x 10.0 = _____ x10.0 = _____ GPM

Dishwashers

Manufacturer’s peak rated as gallons per minute, GPM
 OR Manufacturer’s gallons per hour / 60 minutes
 OR Consumption per cycle= gals x cycles per hr/60 = _____ GPM

Any other specialized equipment (add more lines, if needed)

Manufacturer’s discharge rate = _____ GPM

TOTAL B + C = _____ GPM

D. Load Influences

If the menu is high fat&oil (Asian, Italian, etc.), add 25% = _____ GPM
 If the restaurant is opened 24 hours, add 25%. = _____ GPM

TOTAL = _____ GPM

E. If the final rate is greater than 50 GPM, a large capacity grease interceptor must be installed. Final sizing should be completed by using the manufacturer’s suggested method.

If the final rate falls between two sizes, select the next larger size.