



Calculations Sheet For Sizing Hydro-mechanical Grease Traps

- Calculations for a two (2) or three (3) compartment sink -

I. Enter Dimensions (in inches) of each sink compartment

_____ x _____ x _____ = _____ cubic inches

II. Multiply the result above by the number of compartments

_____ cubic inches x _____ (# of compartments) = _____ cubic inches

III. Divide the result above by 231 cubic inches to convert to gallons

_____ cubic inches ÷ 231 = _____ gallons

(This will be assumed to be your total potential gallons per minute [GPM] flow)

IV. Since the sink will not likely be completely full, multiply the above GPM by 0.75 to arrive at the ¾ full GPM flow from the multi-compartment sink

_____ GPM x 0.75 = _____ GPM (at ¾ full sink)

Note: Where the total impact of fats, oils, or grease loading on the sanitary sewer system is determined to be minimal due to food types, processes, or volume (drainage period), this number may be divided by 2.

This facility qualifies for the reduced rating in accordance with the UPC 1014.2.1

V. Now round to the next nearest available unit size as rated in GPM.

_____ GPM (at ¾ full sink) rounds to: _____ GPM

**THIS WILL BE THE PROPERLY SIZED
UNIT FOR YOUR APPLICATION :**

_____ **TTL GPM**

The final result is the *minimum* rating for a properly sized grease trap as rated in Gallons Per Minute. Please note that when ordering a grease trap, it will be rated in both GPM and in pounds of grease the unit can accommodate. For our purposes, please ignore the pound capacity and order based on the flow through GPM rating only.

Also note the flow restrictor may be included or ordered separately depending on your device or source, and is mandatory for restaurants within the jurisdiction of the City of Lakeport.

An example calculation is shown below for a 3-bay sink:

24" x 24" x 12" deep = 6,912 cubic inches
6,912 cubic inches x 3 (number of bays) = 20,736 cubic inches
20,736 cubic inches ÷ 231 = 89.766 gallons (GPM)
89.766 GPM x 0.75 = 67.34 GPM @ ¾ full sink

This example facility would need to install a Hydro-mechanical grease trap and flow restrictor rated at 70GPM.

Date: _____

Location: _____