

**PORT WASHINGTON WATER POLLUTION
CONTROL DISTRICT**

Internal Grease Trap Sizing Calculation PDI Method:

Steps	Formula	Example
1	Determine volume of fixture(s) by multiplying length x width x depth.	A sink 48" long by 24" wide by 12" deep. Volume = 48" x 24" x 12" = 13,824 in ³ .
2	Determine capacity in gallons. 1 gallon = 231 in ³ .	Volume in gallons = 13,824 in ³ /231 in ³ /gal = 59.8 gallons.
3	Determine actual drainage load. The fixture has a normal displacement of 25% for items being washed so drainage load is 75% of capacity.	Actual drainage load 59.8 gal x 0.75 = 44.9 gallons.
4	Calculations to be based on a 1 minute drainage period.	44.9 gal/1 min = 44.9 gpm.
5	Select proper grease trap.	44.9 gpm requires a 50 gpm grease trap.

Buried/External Grease Trap Sizing Calculations:

A buried/external grease trap shall have a minimum capacity of 25% of the total daily flow or 100% of the kitchen flow, whichever is greater. Calculations of the proposed flow shall be submitted for approval, however in no case shall the buried grease trap have a capacity of less than 500 gallons as measured from the bottom of the tank to the flow line. Separate waste lines for the sanitary and kitchen flow are required with the grease trap located on the kitchen waste lines. Sanitary wastes shall not be discharged into the grease trap. All grease traps shall be brought to grade with a cast iron frame and cover.