



TOWN & COUNTRY PLASTICS

Customized For Precision

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Sizing Neutralization / Dilution Tanks

FORMULA TO USE:

Sink Fixtures **X** Flow Rate **X** Minimum Retention Time **X** Maximum Percentage Usage
= Usable Sizing Capacity

IMPORTANT INFORMATION ON EACH ABOVE:

Sink Fixtures:

Single student, teacher or lab sinks are 1 sink fixture units. Sinks with two (2) faucets are two (2) sink fixture units. Double and triple compartment sinks are two (2) or three (3) sink fixture units. Cup sinks are one-half (1/2) sink fixture units.

Flow Rate:

Floor drains can either be three (3) to five (5) sink fixture units or no sink fixture units. (Some engineers do not include them in flow rates in some cases where they are strictly used for emergency showers only.) Add to flow rate any additional equipment that may be down the lab drain line. As an example add the flow rate of discharge of glass washers, steam bath, water circulation units, etc. These flow rates are available from the manufacturer of the equipment.

Standard for rates for sink fixtures vary from 3/4 GPM to 1 1/2" GPM. Typically, most engineers use 1 GPM.

Minimum Retention Time:

Minimum retention times should not be less than 15 minutes to 30 minutes (the more sinks in a system, the lower retention time you can use).

Maximum Percentage Use:

The percentage in use (usage) varies from 20% to 50%. 20% is one sink unit in 5 being used. 25% is one sink in 4 being used. 33.3% is one sink unit in 3 being used. 50% is one sink unit in two being used. (The more sinks in a system, the lower the percentage you can use.)

Pick Tank Size:

Please refer to the NT tank data sheet for actual usable capacities of our Neutralizations Tanks both with and without limestone to choose the tank that has the correct capacity for the job. The model # of the tank is much greater than the useable capacity of the tank. Choose method of Neutralization, such as method #1B, #2C or other. We have guide specifications and suggested drawings for each method desired.