Instructions

Gilson Fraction Collection Delay Volume Calculator v2.1

The Gilson Fraction Collection Delay Volume Calculator is used to calculate post flow cell accessory volumes to provide a 'starting' value to enter in the software for delay volume and the length of delay tubing for the system. This tool can be used with Windows® XP and Windows® 7 to calculate the delay volume for TRILUTION® LC systems and for the PLC 2020.

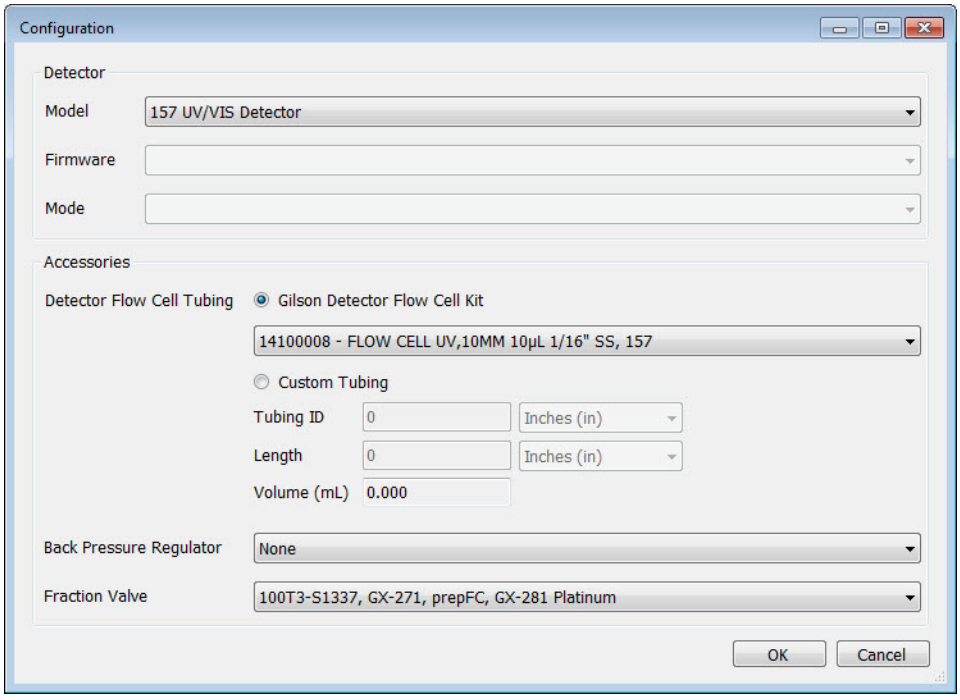
After downloading the file, unzip it to a convenient location. Run SETUP.EXE and follow the on-screen instructions to install the Fraction Collection Delay Volume Calculator.

To start the calculator, click the Start button and then select
All Programs > Gilson Applications > Utilities > Fraction Collection Delay Volume Calculator.

With the Fraction Collection Delay Volume Calculator you can have the values you need to start optimizing the Gilson system being installed or updated. Following the use of the tool, Gilson strongly recommends verifying that the system is fully optimized by performing a recovery study or by running the System Verification Software.

TRILUTION® LC System

1 Fill out the Configuration screen with the system's accessories, and then click **OK**.



2 Enter the values for the operating parameters.

For best results, enter the highest flow rate and the largest fraction collection peak width intended to be used.

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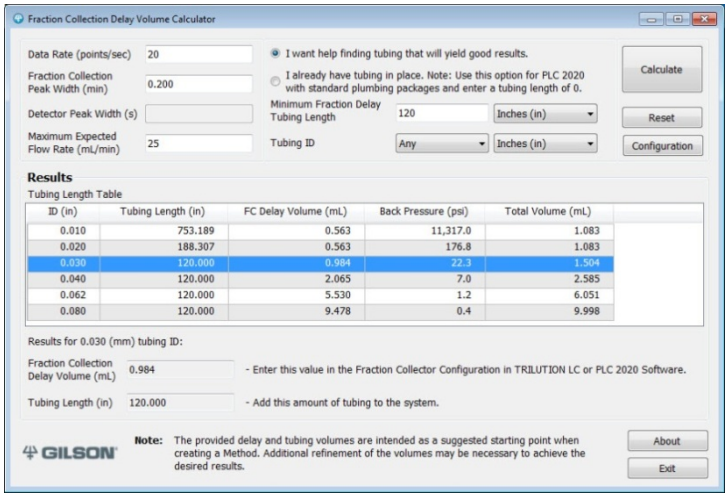
3 Select one of the following options:

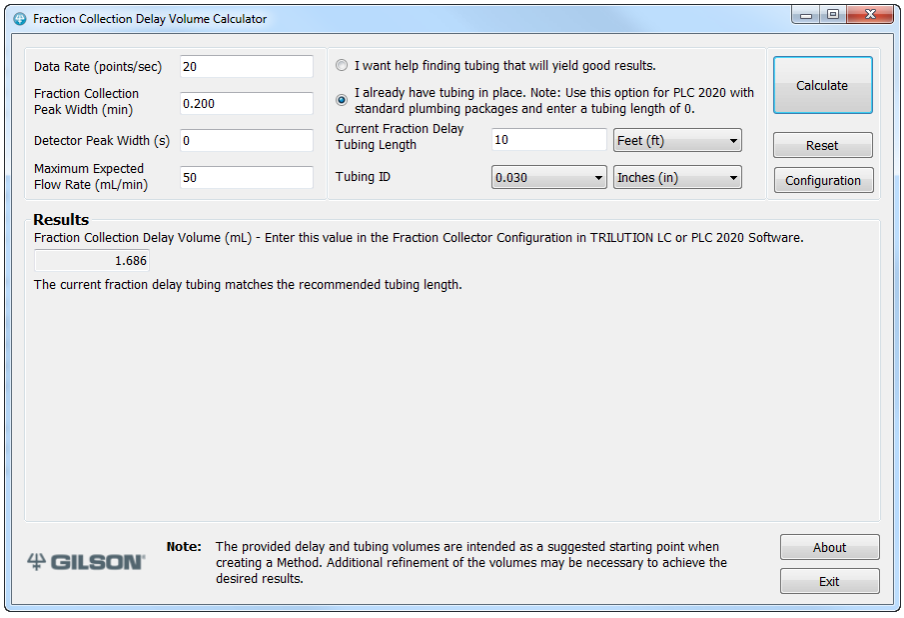
- To have the Fraction Collection Delay Volume Calculator tool tell you the tubing to add for a new install, select *I want help finding tubing that will yield good results.*
- To enter the length and ID of the currently installed tubing, select *I already have tubing in place*.



4 Click **Calculate**. Depending on your selection, the Tubing Length Table will display a single tubing choice or a list of tubing choices.

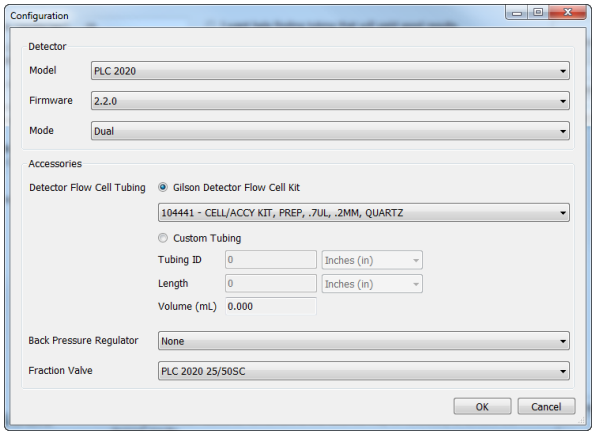
5 Click to select a tubing option from the list. Two values will appear below the table, the Fraction Collection Delay Volume and the Tubing Length. Enter the delay volume in the software and install the suggested length of tubing.

If the *I already have tubing in place* option is selected, Results will indicate whether the installed tubing is adequate and will provide the value to enter in the software for the delay volume.



PLC 2020 System

1 To calculate the delay volume for a PLC 2020 that uses a standard plumbing package, fill out the Configuration screen with the system's accessories, selecting the appropriate option from the list of Fraction Valves based on the pump heads and corresponding plumbing package installed on the PLC 2020 (PLC 2020 25/50SC or PLC 2020 100SC).



2 Enter the values for the operating parameters.

For best results, enter the highest flow rate and the largest fraction collection peak width intended to be used.

3 Select *I already have tubing in place* and enter a Current Fraction Delay Tubing Length of 0.

4 Click **Calculate**. Results will indicate whether the installed tubing is adequate and will provide the value to enter in the software for delay volume.