

Waters® 2700

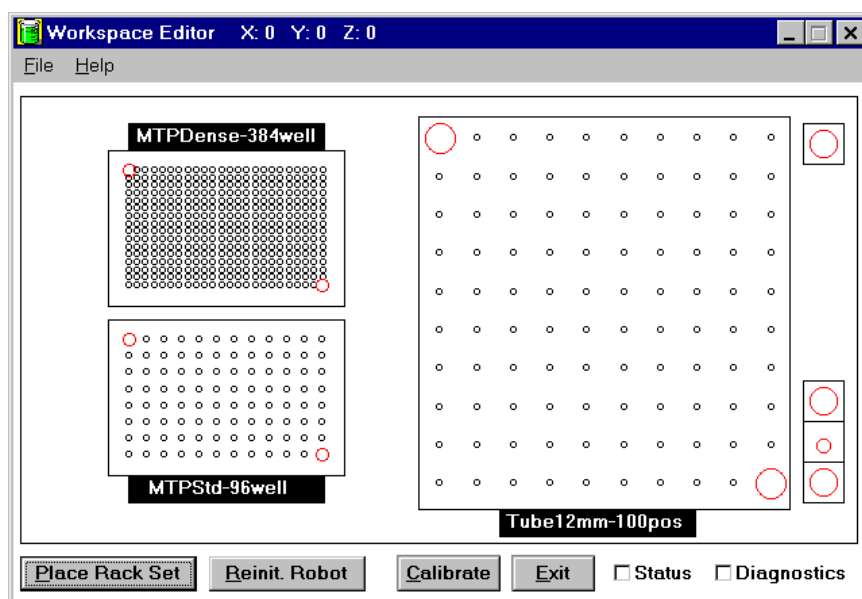
Sample Manager

Flexible Sample Handling

The Waters 2700 Sample Manager is a high capacity sample processing system for the management of sample injection and fraction collection in HPLC. The 2700 automates sample aspiration and injection from microtiter plates, test tubes, or conventional autosampler vials. When the available options are installed, the instrument can provide single point management of sample pretreatment, column selection, injection and collection of separated fractions.

The 2700 sample manager has a graphical workspace editor that allows you to configure the workspace to accept various sample formats. You can easily configure the workspace to accept various microplates (96 and 384 well formats), tubes and autosampler vials. These various formats may be matched or mixed within the workspace. With these formats, sample size may vary from less than 10 microliters to about 10 milliliters. Samples on the workspace can be selected serially or randomly for processing. A programmable wash pump allows you to minimize carryover for unambiguous analytical results.

The figure below represents a configuration example of one 384 well plate, one 96 well plate and a 100 position 12 mm test tube rack.



Defining a Workspace

The 2700 Sample Manager uses regularly spaced racks that are rectangular or square and are positioned parallel to the x/y plane of the instrument. The workspace in the Main window of the software designates the arrangement and the types of racks that hold the sample containers. The racks are designed to contain test tubes, HPLC vials, Eppendorf vials or microtiter plates.

The 2700 Sample Manager provides four default Workspaces:

2SQUARE	Two racks, one for 100 12-mm vials on the left and one for 100 12-mm test tubes on the right.
DENSE	Maximum number of samples, six microtiter plates of 384 wells each.
HEX	Six microtiter plates of 96 wells each, with two plates on the left containing 0.3 mL wells and the remaining four plates containing deep wells.
QUADMTP	Four microtiter plates of 96 wells each, with two on the left containing standard 0.3 mL wells and two on the right containing deep wells.

In addition to the four available defaults, custom workspaces can be designed within the software. The figure below represents the DENSE workspace. There are 384 wells per plate, 2304 samples total. This configuration will meet the needs of a high throughput lab.

