

How to define custom plate measurements for the U-2D Micro-Sample Management System in the Waters Acquity console software – How to

It is always best to consult the user manual for any changes or options before making adjustments to you instruments.

The Waters Acquity™ UHPLC chromatography software is programmable for X,Y,Z sampling. The pre-existing configurations are pre-programmed and stored for customers to get up and running fast. The system expects to hit resistance within some tolerance of the configured heights, or it will error. This is a 'fail-safe' to prevent damage to the autosampler if the user had the wrong configuration plate or vial loaded into the sample method.

If you want to set a custom plate, an example would be taking a 1ml ANSI plate that has a 7mm ID well, a 27mm depth, and a height of 31mm. If you bring up a plate, modify the dimensions and save it as another name, you should be all set. See below.

The U-2D™ plate is ANSI/SLAS (Society For Laboratory Automation and Screening) compliant and conforms to SBS standards and follows the ANSI/SLAS Microplate Standards and when the Rack and Base are mated is virtually indistinguishable from existing glass insert 96 Formatted well plates (and similar).

The screenshot displays the configuration window for a plate in the Waters Acquity software. The 'Number Of Vials' section shows 8 rows and 12 columns, with a vial spacing of 90 1/10mm. The 'Vial 1/10mm' section shows a diameter of 70 and a depth of 270, both circled in red. The 'Offsets' section allows for column and row offsets (0 1/10mm) with radio buttons for 'Odd' and 'Even'. The 'Plate Size' section shows X: 1280 1/10mm, Y: 860 1/10mm, and Z: 310 1/10mm, with the Z value circled in red. The 'Top Left Vial Offset' section shows X: 144 1/10mm and Y: 112 1/10mm. The 'Referencing' dropdown is set to 'XY' and 'Priority' is set to 'Horizontal first'.

ANSI/SLAS Microplate Standards (ANSI/SLAS 1 to 4 - 2004)

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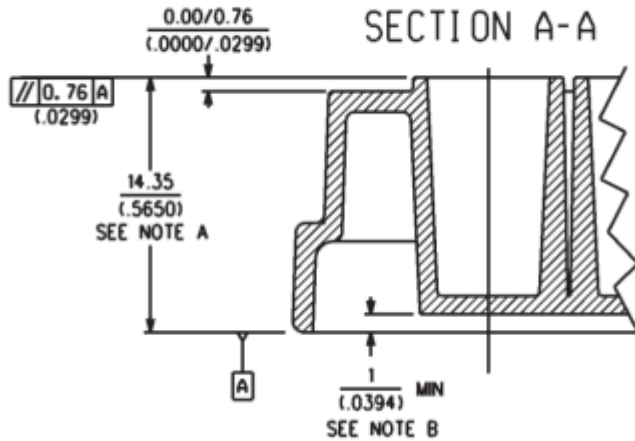
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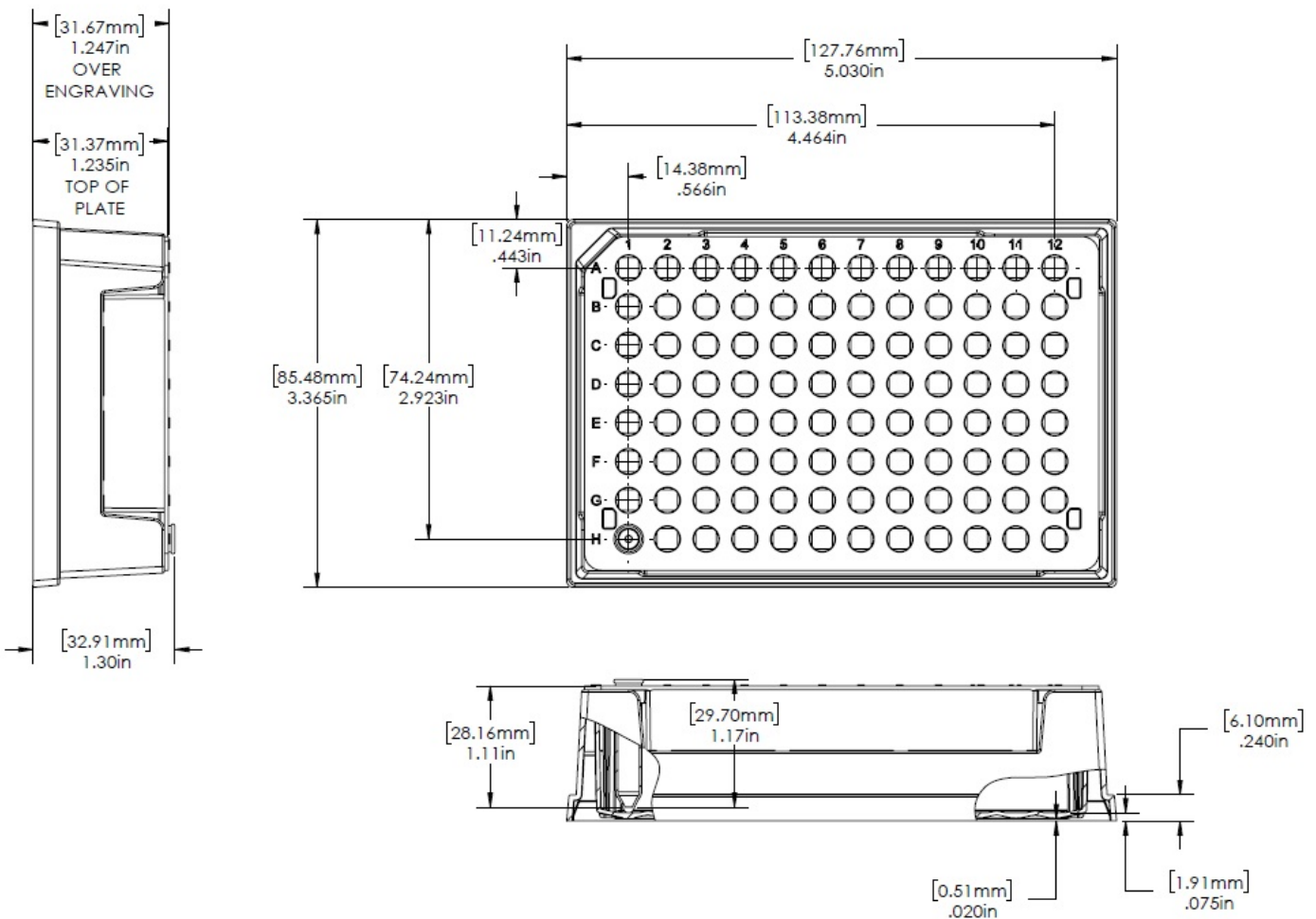
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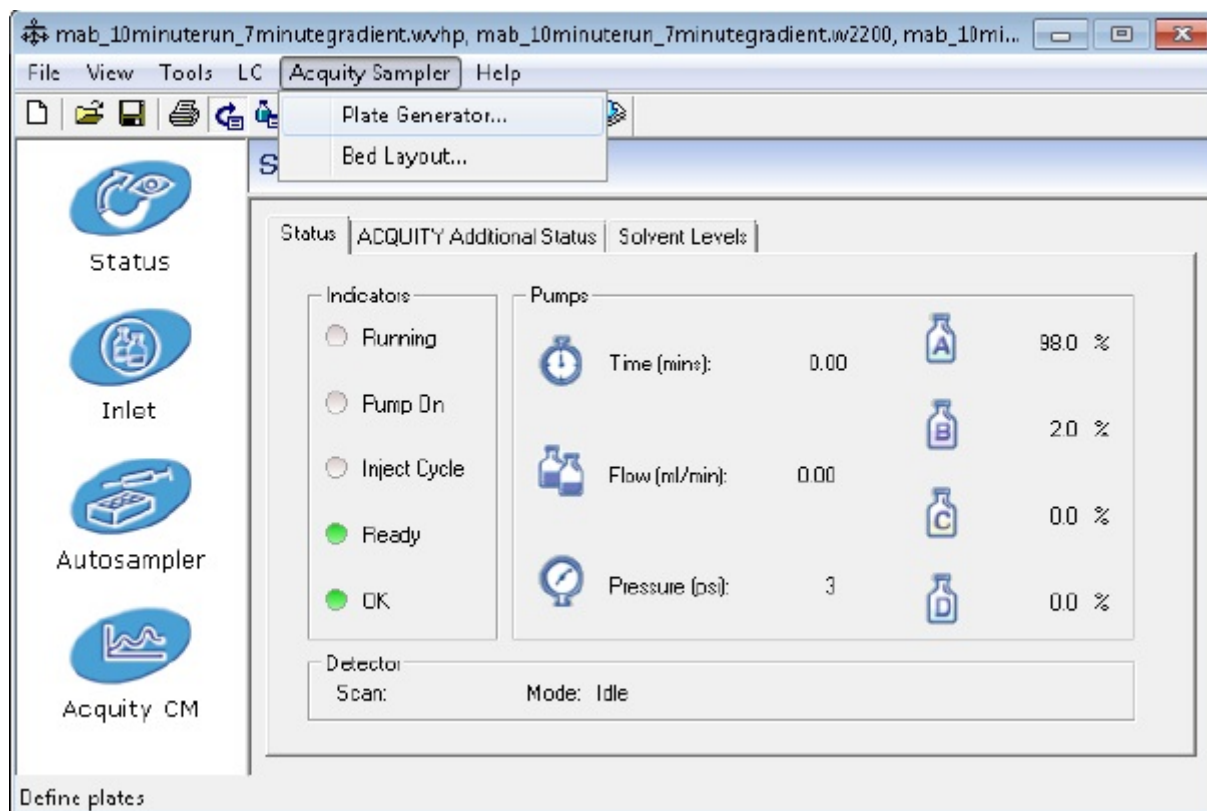
Mechanical Drawings Defining Height Of A Typical Microplate

The Society For Laboratory Automation And Screening (SLAS) is not a standardizing organization; they are a society that provides a working group the ability and platform to standardize along with the American National Standards Institute (ANSI).

Dimensions of the U-2D plates:



Open inlet method:



Modify X, Y, Z:

1. Using the blue arrows at the top, click through the different plates that are already programmed.
2. Click Rack > New Rack to save new plate types.
3. Modify any of the dimensions
4. Click Rack > Save Current Rack

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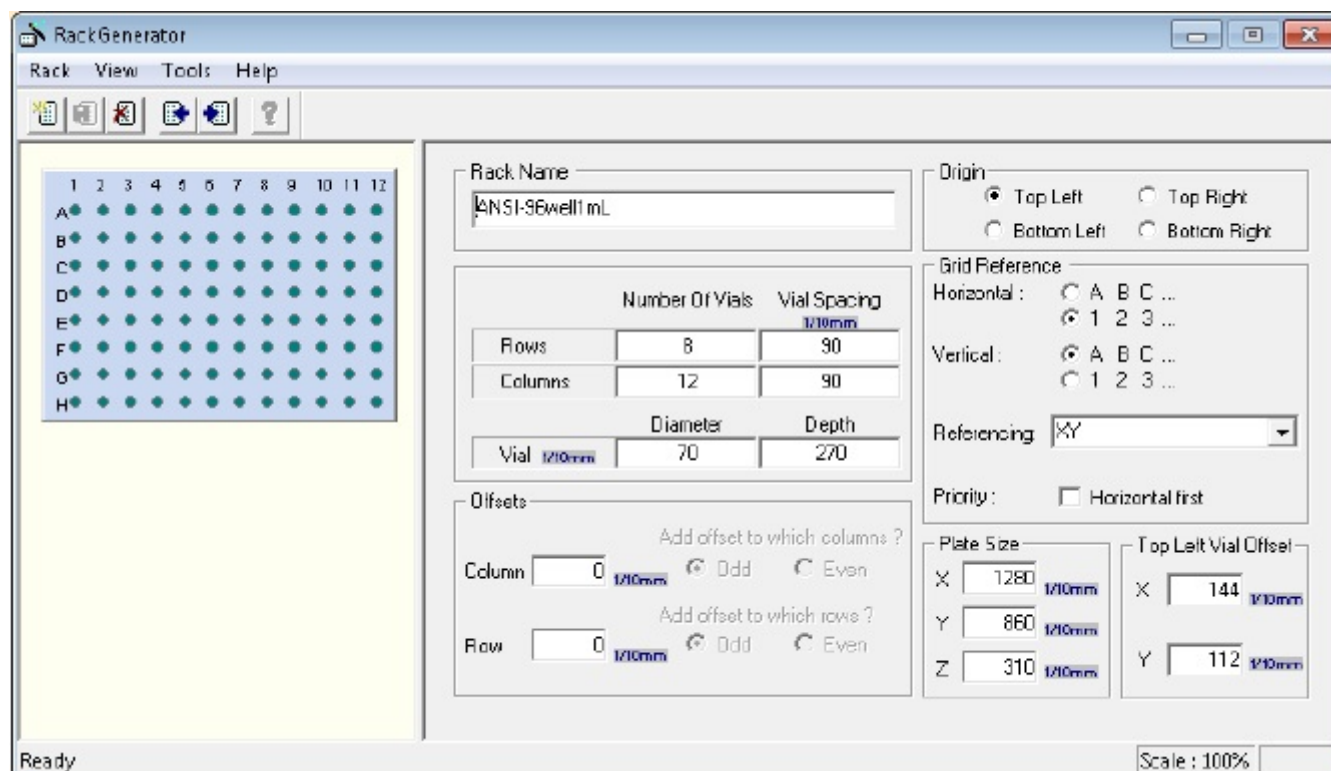
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Click here for more information about Microplate Footprint

Standards https://www.slas.org/SLAS/assets/File/ANSI_SLAS_1-2004_FootprintDimensions.pdf

Click here for more information about Microplate Height Standards

https://www.slas.org/SLAS/assets/File/ANSI_SLAS_2-2004_HeightDimensions.pdf

Click here for more information about Microplate Bottom Outside Flange Standards

https://www.slas.org/SLAS/assets/File/ANSI_SLAS_3-2004_BottomOutsideFlangeDimensions.pdf

Click here for more information about Microplate Well Positions Standards

https://www.slas.org/SLAS/assets/File/ANSI_SLAS_4-2004_WellPositions.pdf

Click here for more information about Microplate Well Bottom Elevation Standards

https://www.slas.org/SLAS/assets/File/Press%20Releases/ASNI_SLAS_6-WellBottomElevation%20NEW.pdf

Attachments

Drawing of specifications 350ul 96 well dimensions pdf [Download File](#)

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