

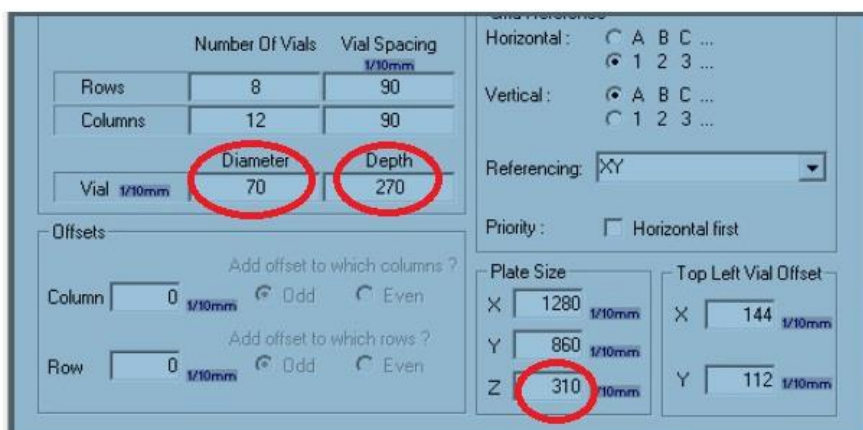
Help Defining Custom Plate Measurements for the U-2D Micro-Sample Management System in the Waters Acquity Console Software - How to

It is always best to consult the user manual for any changes or options before making adjustments to you instruments. Below some notes that you might find helpful

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).



| Number Of Vials | | Vial Spacing |
|-----------------|----|--------------|
| Rows | 8 | 1/10mm |
| Columns | 12 | 90 |

| Vial | |
|--------|-----|
| 1/10mm | 70 |
| | 270 |

Offsets

Column: 0 1/10mm Add offset to which columns? ☒ Odd ☐ Even

Row: 0 1/10mm Add offset to which rows? ☒ Odd ☐ Even

Horizontal: ☐ A B C ... ☒ 1 2 3 ...

Vertical: ☒ A B C ... ☐ 1 2 3 ...

Referencing: XY

Priority: ☐ Horizontal first

Plate Size

X: 1280 1/10mm

Y: 860 1/10mm

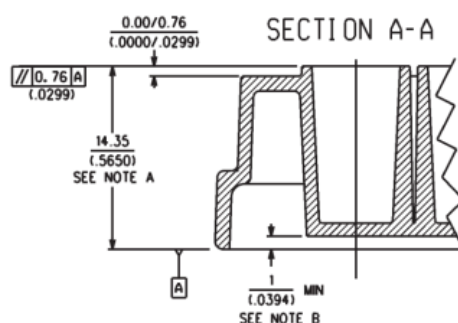
Z: 310 1/10mm

Top Left Vial Offset

X: 144 1/10mm

Y: 112 1/10mm

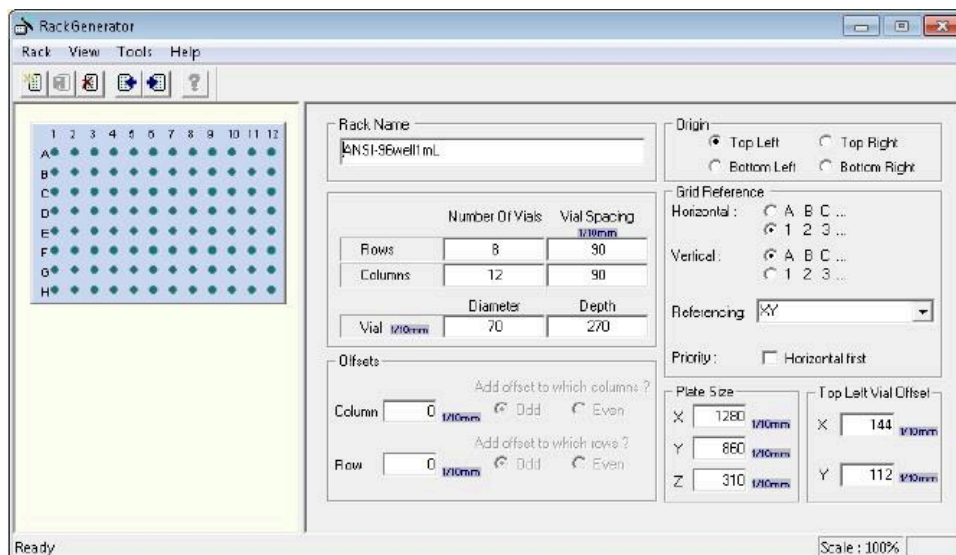
ANSI/SLAS Microplate Standards (ANSI/SLAS 1 to 4 – 2004)



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:



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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