

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.

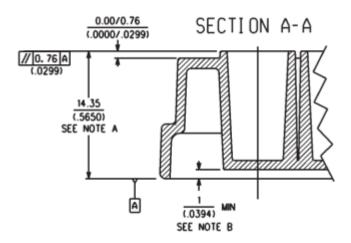
If you want to set a custom plate, an example would be taking a 1ml ANSI plate that has a 7mm ID well, a 27mm depth, and a height of 31mm. If you bring up a plate, modify the dimensions and save it as another name, you should be all set. See below.

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).

	Number Of Vials	Vial Spacing 1/10mm	Horizontal: C A B C © 1 2 3
Rows	8	90	Vertical:
Columns	12	90	C 1 2 3
Vial 1/10mm	Diameter 70	Depth 270	Referencing: XY
Offsets	\sim	\sim	Priority : 🔲 Horizontal first
		which columns?	Plate Size Top Left Vial Offset
Column 0	1/10mm 🙆 0 dd	¢ Even	X 1280 1/10mm X 144 1/10mm
		which rows?	Y 860 1/10mm
Row 0	1/10mm © 0dd	€ Even	Z 310 10mm Y 112 1/10mm

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

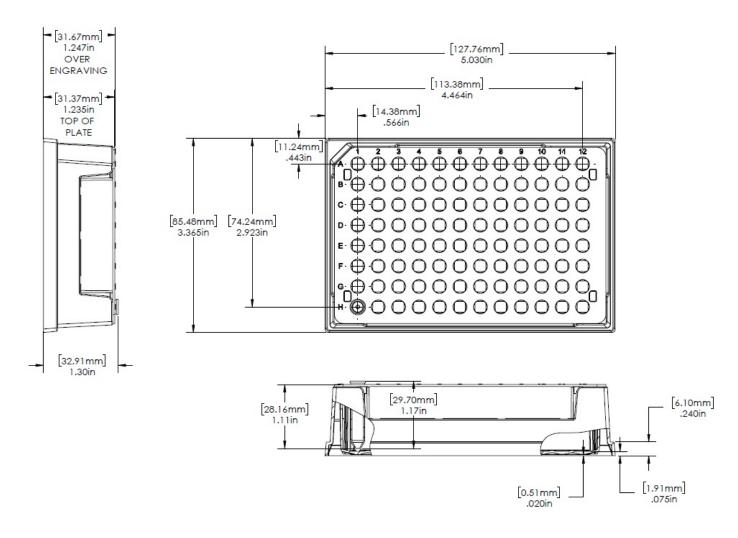




Mechanical Drawings Defining Height Of A Typical Microplate

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:



MICROS

Open inlet method:

View Tools LC					
100					
Status	Status ACQUITY Addi	tional Status Solvent Levels	1		
Status	- Indicators	Pumps			
	Burning	Time (min*):	D.00	ā	98.0 %
Inlet	🔵 Pump Dn			٦	20 %
	🔘 Inject Cycle	Flow (ml/min):	0.00	-	
	Ready			Č	0.0 %
Autosampler	🔵 ок	Pressure (psi):	З	固	0.0 %
	Detector	J L			
Acquity CM	Scan:	Mode: Idle			

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

MICROS

RackGenerator						
Rack View Tools Help						
1 2 3 4 5 6 7 8 9 10 11 12 A	Drigin Tap Left C Tap Right C Battom Left C Battom Right					
		Number Of Yials	Vial Spacing	Grid Reference Horizontal : ○ A B C ⓒ 1 2 3		
	Rows	8	90	Vertical:		
6	Columns	12	90	C 1 2 3		
H		Diameter	Depth	Referencing XY -		
	Vial 1210mm	70	270			
	- Olfsets			Priority : 🔲 Horizontal first		
		Add offset to Tomm C Ddd Add offset to Tomm C Ddd	which rows ?	Plate 5 ize Top Leit Vial Offset X 1280 Y 860 Z 310		
Ready				Scale : 100%		

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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