

# SDS-550

## Offline Sample Dilution System



# SDS-550 Offline Sample Dilution System

## Complete

### Dedicated System:

Dilution station comes complete with ASX-520 Autosampler and custom software as an integrated, ready-to-use system.

**Intuitive Software:** Sample diluent and reagent volume easily entered in sequence format (3 main screens), Windows® compatible.



## Precise

**Variable Dilution:** Variable dilution ratios from 1:1 to 1:50.

**Dilution Accuracy and Precision:** Values for dilution accuracy and precision (measured by weight of water) are given below for thirty replicate dilutions. Note that the % RSD for the final 10mL volume is under 0.1%.

	1mL	9ml(g)	10mL(g)
Average (n=30)	1.001	9.006	10.007
Std. Dev.	0.003	0.009	0.009
%RSD	0.3	0.1	0.09

## Flexible

**Multiple Reagents:** Can be used with several reagents with minimal changeover time.

**Variable Volume:** Capable of running either large sample batches or just a few samples.

## Efficient

**Units Over Time:** 1:10 dilution (10ml final volume) 8 to 10 seconds per sample.

**Cost Effective:** Depending on your workload, save 6 to 10K in labor costs the first year.

## Key Characteristics

### Dilution Module

#### Dimensions:

Height: 26.5 cm (10.4")

Width: 14.5 cm (5.7")

Depth: 24.2 cm (9.5")

Weight: 3.9 kg (8.6 lbs)

Syringe: 10 mL capacity

High Resolution: Range 3,000 to 24,000 steps

Plunger Drive: Stepper motor driven lead screw with optical feedback

Fluid contact: Glass, Kel-F®, Teflon®

Switching Valve: 2- position solenoid valve; Teflon® wetted components

Communication: RS-232 via host autosampler

Power Requirements: 100-240 VAC +10% 50/60 Hz

Warranty: 2 year limited

### ASX-520 Autosampler

#### Dimensions:

Height: 61 cm (24") with sample probe

Width: 52 cm (20.5")

Depth: 48.2 cm (19")

X-Axis: 40.9 cm (16.1)

Y-Axis: 27.0 cm (10.6)

Weight: 10.5 kg (23 lbs)

Tray: 4 rack capacity

#### Speed:

Axis	Min	Max
X	70 mm/sec	370 mm/sec
Y	70 mm/sec	340 mm/sec
Z	70 mm/sec	430 mm/sec

Communication: 2 Serial (RS-232) ports; USB (virtual COM port); 5 auxiliary inputs / 5 outputs

Power Requirements: 100-240 VAC, 47-63 Hz, 1.9A

Warranty: 2 year limited