

# SYSTEM 860CDL

Automated Dissolution Sampling System W/Cameras

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The Logan System 860CDL Automated Dissolution Testing & Sampling System with cameras is a modularly designed dissolution testing & sampling system. The integral UDT-814-12 Dissolution Tester can be configured with 3 speed control zones, comprising of 12 vessels and spindles. It can be operated at one speed for all 12 spindles, or 2 speed zones for 8 spindles and 4 spindles, or 3 speed zones for 3 groups of 4 spindles. The 2 and 3 zone speeds may be different. UDT-814-12 has 12 cameras under the vessels, allowing one to visualize and record how the tablets are dissolving. For USP I method, the camera is inserted into the basket shaft allowing one to see how tablets are dissolving in each basket. This system is used for dissolution testing of a variety of pharmaceutical products including tablets and capsules. This new unique design with varying speeds during the same run provides an invaluable tool for R&D.

The Tablet Dropping Tray accessory automates the process of tablet dropping. It drops the tablets simultaneously, thereby marking the beginning of each test with far greater precision than manual techniques allow. The dual vessel covers are mounted on the dropping tray, which seals all the vessels and prevent evaporation. Temperature reading can be taken before, after, and periodically during a run to ensure compliance throughout the test. The automated sampling manifold can be controlled to lower itself into the vessels. The samples may also be filtered through a membrane or other filters. At each sampling point, the syringe pump takes samples from the vessels and flushes out the sampling lines. After flushing the lines, the samples return to the same vessels. This system does not send any samples to waste. The time, speed and temperature will be recorded at the beginning of each test as well as when samples are being taken. Such features ensure compliance with regulatory requirements.

2 of the SYP-6L2B-10ml Syringe Pump modules are built-in with the DSC-800 System Controller, which saves lab bench space. The syringe pumps withdraw samples to rinse the lines right before each time interval; individual samples are dispensed simultaneously into collection tubes or vials in the SCR-DL Sample Collector. After collecting the samples, the syringe pumps replace the media; back flushes the filters, and purges all the sampling lines. The auto wash function can be programmed to wash the lines right after the test or programmed to wait for user commands; this is to ensure all lines in the system are clean.

The DSC-800 System Controller permits quick and easy programming of all parameters and gives the user total flexibility in the use of up to 2 (12 position) systems simultaneously. Each system can be programmed to control all dissolution parameters, all test method are printed by a provided printer.

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Full sample recycling with no waste/self cleaning system



Recorded camera view of dissolving tablets



Dual filtration system with filter valve set, multi-sampling points with HPLC vial collection with same membrane filters



Printer for full report



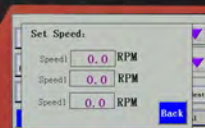
Basket Camera Footage



Paddle Camera Footage



Camera inside the basket shaft



Option: 2 or 3 speed control zones / Individual temperature display & report



Password to meet CFR 21 Part 11

## Specifications

### SCR-DL Sample Collector

12 Samples per time point, 20 time points

No sample waste system

Sample return station to limit waste

12 Position delivery head w/ piercing needles

Power supply for 110/220 Volts, 50/60 Hz

Size: 19" X 22" X 19"

### UDT-814-12 Automated Dissolution Tester

Drive Position: Can be used as 12 - position tester

Speed Range: 25-250 ±0.1 RPM

Temperature Range: Room temp.-45°C ±0.1°C

Shaft Size: 3/8 inch DIA, S.S. 316

Water Bath: One piece molded seamless tank

Password protection

Pre-set dissolution test methods

Built-in external water heater/circulator for fast heating & space saving

Built-in automated sampling manifold

Auto-Dropping Tray to drop all samples simultaneously

PGC: Positive Gripping Chunk design

Non-corrosive vessel plate

No-vibration performance

110/220 Volts , 50/60 Hz

Size: 21" X 36" X 40"

### DSC-800 System Controller

Controls the dissolution tester, the transfer pump and sampler collector

Sampling interval within 3 minutes

Large touch panel with color display

Link up with printer

Provides an SCR-DL Support Rack

110/220 Volts , 50/60 Hz

Size: 12" X 15" X 24"

### SYP-6L2B-10ml Syringes X 2

High torque motor driven with encoder feedback loop

Controls Up to 6 x 10 ml syringes

Syringe accuracy: ±0.05 ml for transfer volume more than 1 ml

Maximum transfer volume: 10 ml (as per stroke)

Built-in with DSC-800 System Controller

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