



SYSTEM 913A-12

Automated transdermal sampling system
with water jacket cells

- Bubble free cells
- Automated sampling system
- Precise syringe pumps ensure accurate sampling and avoid human errors
- Water jacket heating system ensures temperature accuracy
- Simultaneous permeation test of 12 samples
- Vessel cover design ensures temperature and protects media from light
- Variable thickness gaskets for controlling sample volume
- Two-zone-system with 3 positions per zone
- Data audit tracking function available and it complies to FDA 21 CFR Part 11 requirements



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Product introduction

SYSTEM 913A-12 is an automated 12-position transdermal diffusion cell system designed by updated technology. It contains two FDC-6TA vertical transdermal diffusion systems, a SCR-DL sample collector, dual SYP-12L-10mL syringe pumps, and a DSC-800 system controller.

Applications

It is designed for testing in-vitro permeation rate of semi-solid dosage and topical drug formulation, as well as for cosmetic products, such as ointment, gels, transdermal patches, face masks, lotion, sunscreen, etc.

Extended functions

- Upgrade to a system with multiple transdermal diffusers
- Optional online degasser

Model

Model	Configuration	Sampling method
FDC-6TA	Franz Diffusion Cell Drive Console	Manual sampling
SYSTEM 913A-6	1 FDC-6TA + sample control system	Automated sampling
SYSTEM 913A-12	2 FDC-6TA + sample control system	Automated sampling
SYSTEM 913A-24	4 FDC-6TA + sample control system	Automated sampling

Specifications

FDC-6TA vertical transdermal water jacket diffusion system Speed: 600rpm±1rpm Temperature range: room temperature ~ 45°C ±0.1°C Diffusion cell volume: 12 mL Diffusion cell diameter: 15mm VTC200 wattage: 700W Power: 220V/50-60Hz 110V/50-60Hz Measurements: 50cm×50cm×33cm(L*W*H)	DSC-800 system controller Minimum sample time: 5 min Supports multi-language Color touchscreen display
SCR-DL sample collector Can collect up to 20 rows of sample Sample racks for HPLC vials and glass tubes Supports dual filtrations	SYP-12L-10mL syringe pump Sample range: 1-10mL Sample of accuracy: 0.1mL Sample positions: 12

Various horizontal diffusion cells

Aperture(mm)	Volume(mL)	Proportion(cm ²)
5	3	0.20
7	5	0.38
9	5	0.64
11.2	8	1.00
15	12	1.77
20	15	3.14
25	20	4.19



Franz Diffusion Cell