



# **DIFFUSION CELL APPARATUS MODEL EDC-07**

The Diffusion Cell Apparatus EDC-07 is a precision 7-station vertical diffusion testing system designed for evaluating transdermal, topical, and semi-solid drug products. It provides controlled temperature, uniform mixing, and repeatable sampling conditions to support drug release and permeation studies in academic and research laboratories.

Compact and ergonomically designed, the EDC-07 conserves bench space while delivering reliable performance for routine diffusion testing and formulation studies.

## APPLICATIONS

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The EDC-07 Diffusion Cell Apparatus is widely used in pharmaceutical and academic laboratories for drug release and permeation studies.

- Transdermal drug delivery testing
- Topical and dermatological formulation evaluation
- In vitro drug diffusion and release studies
- Formulation screening and comparison
- Academic research and pharmaceutical education

## FEATURES

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### Key Features & Benefits

- 7-station diffusion cell apparatus for parallel drug release testing
- Ideal for transdermal and topical formulations, including gels, creams, ointments, and patches
- Vertical diffusion cells available in 5 mL, 7.5 mL, 12.5 mL, and 20 mL volumes

- 10 programmable test protocols with up to 12 sampling intervals
- Evenly packed surface design for uniform diffusion and reproducible results
- Clear molded water bath for visibility and stable temperature distribution
- Compact, ergonomic footprint optimized for academic and research environments
- PC and LAN connectivity for centralized data storage, sharing, and printing

## Temperature Control & System Performance

- Controlled temperature range: 30.0°C to 40.0°C
- Temperature control accuracy:  $\pm 0.1^{\circ}\text{C}$
- Resolution:  $0.1^{\circ}\text{C}$
- RTD (PT100) sensors for precise temperature monitoring and control
- Magnetic coupling system ensures consistent agitation without mechanical disturbance

## TECHNICAL SPECIFICATIONS

|                  |                           |
|------------------|---------------------------|
| Model            | EDC-07                    |
| Number of Cells  | 7                         |
| No. of protocol  | 10 Maximum                |
| Sample interval  | 12                        |
| No. of motor     | 1                         |
| Range            | 30.0°C to 40.0°C          |
| Control accuracy | $\pm 0.1^{\circ}\text{C}$ |
| Resolution       | $0.1^{\circ}\text{C}$     |
| Heater sensor    | RTD (PT 100)              |

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Heater wattage    | 100 watts                                                                               |
| External probe    | RTD (PT 100)                                                                            |
| Type              | Magnetic Coupling                                                                       |
| Flow rate         | 15 liters/min                                                                           |
| No. of Timer      | 1                                                                                       |
| Range             | 1 min to 999 hrs 59 min                                                                 |
| Display           | 20 x 4 LCD                                                                              |
| Supply            | 230 VAC, 50 Hz OR 110 VAC, 60 Hz (110V is also available. Please specify when ordering) |
| Fuse              | 2 Amp/250 V (For Input 230 V AC,50Hz)                                                   |
| Power Consumption | 1 K VA                                                                                  |



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