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## *Shimadzu FRC-10A Fraction Collector*

The Shimadzu FRC-10A fraction collector meets the demands for continuous, automated fraction collection.

### **Features**

#### **Small and Large Volume Collection Capacity**

The FRC-10A collects both analytical and preparative fractions. The standard configuration has a 144 5mL vial capacity. The large volume kit can be added for large volume collection.

#### **Precise Peltier Temperature Control**

For automated collection of thermally-labile fractions, Peltier temperature control keeps temperatures stable within a 4-70° C range.

#### **Simplified Graphical Parameter Entry**

Set up fractionation parameters graphically from the SCL-10AVP System Controller. Eliminate the guesswork of determining slope and level values.



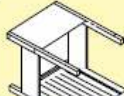


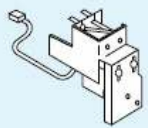
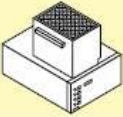





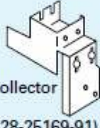
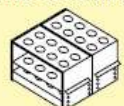









#### **Fraction Collection Flexibility**

Tailor the collection to your application requirements. Choose from collection criteria such as volume, threshold, and peak purity. A precise peak division feature ensures high purity fractions. The FRC-10A automatically adjusts for retention time shifts, so that only the peak of interest is collected. Our slope-override capability enables continued collection, even when the detector signal is off-scale.

## Specifications: FRC-10A (Cat. No. 228-35800-xx)

|  |   |                               |
|--|---|-------------------------------|
| Drive System   | Arm movement (X-Y) system   |                               |
| No. of collection vessels                                  | 16- 144, depending on rack type (variable through parameter setting)                            |                               |
| Collection method  | Solenoid valve (incl.) or direct through nozzle (W/out solenoid valve)                          |                               |
| Maximum flow rate  | 150mL/min (water)   |                               |
| Collection operation                                       | Programmed operation via SCL-10AVP System Controller, or manually                               |                               |
| Fraction modes   | Basic mode (using initial parameters), and Time Program mode (14 different functions available) |                               |
| No. of collection files                                    | Up to 10 in memory (Total No. of program steps: 100)  |                               |
| Output of setting parameters, results                      | Printout via Chromatopac  |                               |
| Cooling of fractions                                       | Possible with Sample Cooler L (Optional)  |                               |
| Collection based on 2-channel generated ratio chromatogram | SPD-10AVP/10AVVP dual-wavelength signal, or signals from 2 detectors                            |                               |
| Linking with external devices                              | With SCL-10AVP System Controller, any of LC-10AVP components may be linked.                     |                               |
| Detector signal input                                      | 0- 1V   |                               |
| Dimensions, weight   | 260W· 420D· 280H· ; 15·   |                               |
| Ambient temperature range                                  | 4- 85·  |                               |
| Power requirements   | -91 100V, 100VA, 50/60Hz  | -93 220V, 100VA, 50/60Hz      |
|  | -92 120V, 100VA, 50/60Hz  | -38 220- 240V, 100VA, 50/60Hz |

## Options for Fraction Collector FRC-10A

|                  | Collector heads  | Racks  | Collection containers  | Collector heads   | Racks   | Collection containers  |   |
|------------------|--|--|--|---|---|--|---|
| Large fractions  | <br>Fraction collector head with valve (Cat No. 228-24105-91) | Large volume kit (includes shown items) (64 fractions) (Cat. No. 228-25324-91)<br>Rack No. 2B<br>Chassis <br>Collection tube (5 pcs.) <br>Mounting frame tray  | <br>Commercial reagent bottles may be used (500~1000mL)        | <br>Fraction collector head with valve (Cat No. 228-24105-91)    | Sample cooler L (50 fractions) (Cat. No. 228-35730-93)     | Vial (glass) 4mL (Cat. No. 228-21287-91)  × 100 pcs.          | Vial (PP) 5mL (Cat. No. 228-25322-91)  × 100 pcs.          |
|                  |  | Rack No. 1 (144 fractions) (Cat. No. 228-25310-91)    | Test Tube (glass) 3.5mL (Cat. No. 228-25315-91)  × 250 pcs. |   | Test Tube (PP) 4.5mL (Cat. No. 228-25319-91)  × 250 pcs. |  |   |
| Normal fractions | <br>Fraction collector head (Cat No. 228-25169-91)           | Rack No. 3 (16 fractions) (Cat. No. 228-25313-91)   | Vial (glass) 50mL (Cat. No. 228-25318-91)  × 20 pcs.          | Vial (polypropylene, PP) 50mL (Cat. No. 228-25321-91)  × 20 pcs. | Rack No. 5 (120 fractions) (Cat. No. 228-25314-91)       | Test Tube (glass) 3.5mL (Cat. No. 228-25315-91)  × 250 pcs. | Test Tube (PP) 4.5mL (Cat. No. 228-25319-91)  × 250 pcs. |
|                  |  | Rack No. 2A (64 fractions) (Cat. No. 228-25311-91)    | Test Tube (glass) 20mL (Cat. No. 228-25316-91)  × 100 pcs.    | Test Tube (glass) 32mL (Cat. No. 228-25317-91)  × 100 pcs.       | Test Tube (PP) 25mL (Cat. No. 228-25320-91)  × 100 pcs.    |  |   |

- Vials and test tubes are optional parts. Please select suitable vials and tubes for each racks.
- For normal fraction collecting, please use the fraction head with valve.
- The fraction head is for very small fraction collecting.



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