



> RT3-AT Reciprocating Cylinder Dissolution System

The best dissolution partner for matrix tablets and chewable tablets



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Model Configuration



**RT3 Manual Sampling Reciprocating
Cylinder Dissolution Apparatus**



**RT3-AT Automatic Sampling Reciprocating
Cylinder Dissolution System**

With Accurate and stable instrument performance, and fully meeting the requirements of ChP, USP and EP for the dissolution test of reciprocating cylinder method.

Equipped with multiple row dissolution vessel, it can use a variety of dissolution medium with different pH at the same time to simulate the gastrointestinal conditions of human body.

With Advanced automatic design , including automatic changing of dissolution medium and sampling, making the dissolution experiment more efficient and accurate.

Suitable for in vitro dissolution test of various preparation, such as sustained-release, controlled-release, rapid-release, chewing, granule preparations, etc.



Reciprocating Cylinder Mounting Bracket

With coaxial split design, you can quickly replace the reciprocating cylinder with the others.

Automatic Dissolution Vessel Cover

The cover of dissolution vessel can be automatically opened and closed, which effectively reduces the evaporation loss of the dissolution medium.

Integral Moulding Water Bath

Integrated moulding and rounded angle design. There is no cleaning dead end. Water bath can be completely drained.

Reciprocating Lifting Motor

The reciprocating is with rate(4 ~60DPM) and stroke(2 ~ 10 cm). The immersion time and drain time can be set.

Automatic Row-changing Motor

According to the set time interval, motor will automatically transfer the reciprocating cylinder to the next row of dissolution vessel.

User Computer Interface

With 8.4-inch touch screen and preinstalled Raytor dissolution operating system, system can meet the data integrity requirements.



RT3-AT Reciprocating Cylinder Dissolution System

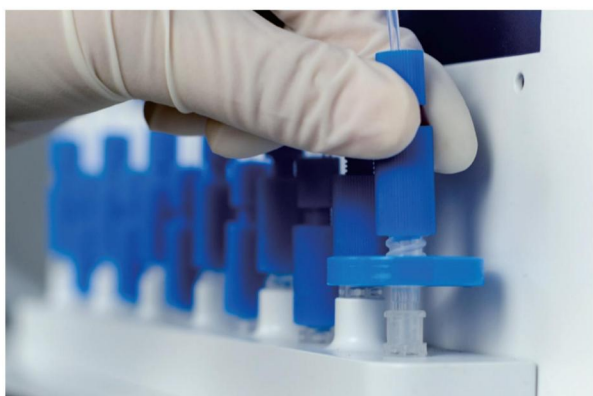
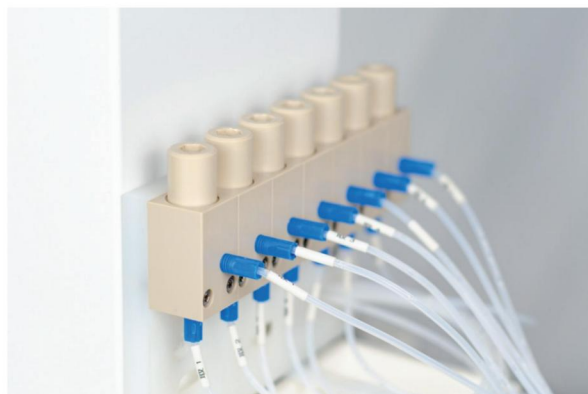
Raytor has a deep study in the field of dissolution automatic sampling and specially designed the automatic sampling solution for the dissolution experiment of reciprocating cylinder method. The RT3-AT automatic sampling reciprocating cylinder dissolution system can effectively provide accurate and precise sampling at each time point, reflecting the advantages of high efficiency, accuracy, stability, and easy-to-use software.



- Sampling pipe and return pipe are embellish washed before sampling to ensure more accurate sample concentration.
- After sampling, the residual liquid in the sampling, return and injection needle pipe will be purged and emptied so that the sampling volume is more accurate and there is no sample residue in the pipe.
- Automatically repairing the solvent and cleaning the pipeline .



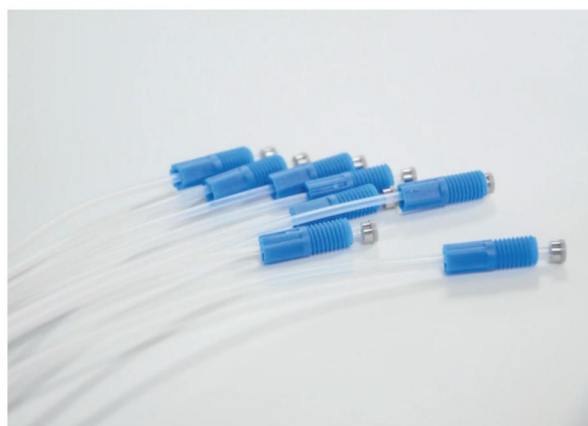
Equipped with a filter device in front of the pump, various specifications of cylindrical filter elements can be installed. In the process of automatic sampling, large particles of drugs that are not completely dissolved can be filtered out to prevent blockage of sampling pipe and valve.



The disk filters can be installed at the front end of the sample injection needle of the automatic sampling workstation to realize the online filtering.

In the method setting interface, we can set the volume of the initial filtrate to be discarded to achieve the purpose of prewetting and saturating the filters.

The Teflon sampling pipe with high chemical stability and high anti-adsorption was used to avoid corrosion and sample adsorption.



RT3 Series Dissolution Accessories

Dissolution Vessel

300ml high quality glass vessel with dimensions meeting pharmacopoeia requirement.

It is applicable to the standard reciprocating cylinder dissolution apparatus.



Reciprocating Cylinder

Glass reciprocating cylinder (length of inner tube : 100mm) with dimensions meeting pharmacopoeia requirement.

It is applicable to the standard reciprocating cylinder dissolution apparatus.



Upper and Lower Cover Accessory of Reciprocating Cylinder

- The dimensions meet pharmacopoeia requirement.
- Material of upper cover and lower cover: Teflon.
- Shaft material: 316L stainless steel.



Mesh Screen

We provide different kinds of mesh that is suitable for standard reciprocation cylinder dissolution apparatus.



Evaporation Cap

Evaporation cap with dimensions meeting pharmacopoeia requirement. It is applicable to the standard reciprocating cylinder dissolution apparatus.



Sampling Filter Element

The cylindrical sampling filter element is installed in the filter device in front of the pump.

Specification of sampling filter element:

10 μm 、30 μm 、50 μm .



Technical Parameter

Reciprocating Cylinder Dissolution System	Dissolution Apparatus Level: $\leq 0.3^\circ$.
	Shaft Verticality: $\leq 90.0^\circ \pm 0.5^\circ$.
	Maximum Running Time: 600Hours.
	Dissolution Vessel Row Number: 7 Vessels \times 6 Row Vessel Volume: 300mL & 1000 mL
Temperature Parameters	Temperature Control Range: Room Temperature $\sim 50^\circ\text{C}$
	Thermometric Resolution: 0.1°C
	Thermometric Error: $\leq \pm 0.2^\circ\text{C}$
	Temperature Difference between Vessels: $< \pm 0.5^\circ\text{C}$
Reciprocating Stroke	Adjustable Range: 20~100mm
	Error: $< \pm 1 \text{ mm}$
Reciprocating Rate	Adjustable Range: 4~60 DPM
	Error: $< \pm 5\%$
Automatic Sampling Workstation	Sampling Pump: High Precision Compact Injection Pump
	Maximum Settable Sampling Number: 30 Times
	Sampling Precision: Error $\leq \pm 1\%$
	Sample Collector: Sample Collection Quantity : 7 Samples \times 15 Rows Sample Collector: Suitable for 10ml Test Tube or HPLC Vial

The information, instructions, and technical parameters in this article are subject to change without prior notice.



Choose Raytor and calmly face the challenges of dissolution testing

Service and Support:
Reduce the potential impact of
dissolution process

Arrange our experienced and professionally
trained engineers to provide you with
instrument installation, software and
hardware training, and complete
qualification services.

We can assist in meeting your
needs in the following areas:

- Instrument repair and maintenance
- Application experiment solution
- Training services



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