Taylor Vortex Flow Continuous Crystallizer / Reactor

TVF® Automated Dosing and Sampling Unit





Compatible Models

TVF 001

TVF 01



Fully Automate Complex Experimental Procedures!

Made in Japan

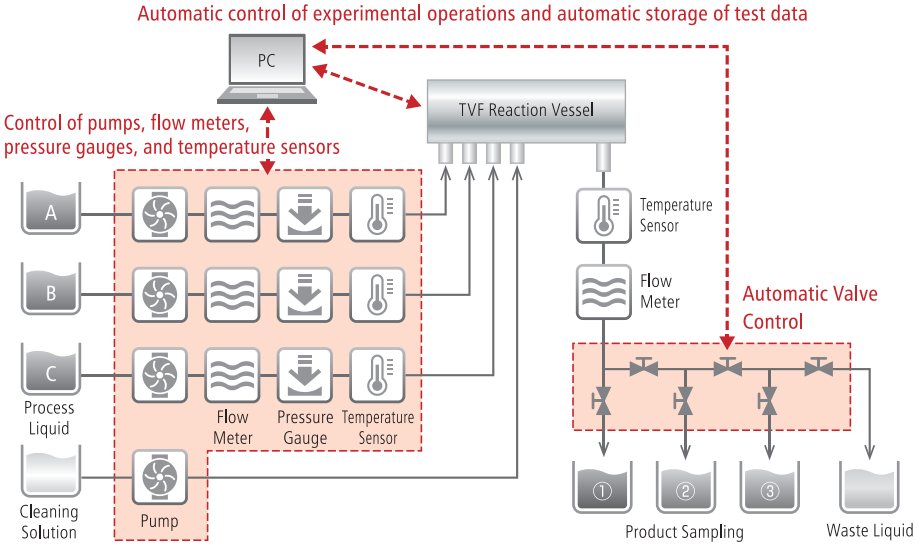
Challenges We Can Solve

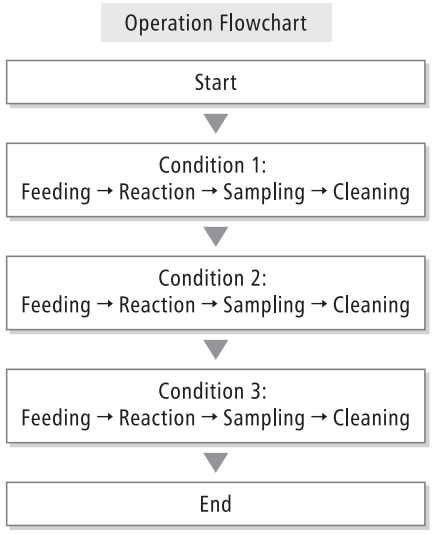
Reduce Labor and Workload	Simply load the materials and start the system in the morning. Sampling under all specified conditions will be completed by the evening.
Efficient Data Collection	Test data is collected at specified intervals and automatically saved to a PC in chronological order.
From Laboratory to Pilot-Scale Production	Streamline system implementation while saving time and costs. Optimize process conditions and improve reproducibility.

Features

- **Fully automate the processes required for experimentation and production**
- **Integration of Centralized Data Management and Control**
- **Customizable (flow rate, temperature control, number of lines, etc.)**
- **Chemical resistance (resistant to hydrochloric acid, caustic soda, acetone, etc.)**

System Configuration





Functions	Premium Package	Basic Package
Process	3 Lines Slurry-compatible, equipped with newly developed pumps	2 Lines
Inlet Flow Measurement	Pump Feedback Control	—
Inlet Sensors	Pressure and Temperature Measurement	—
CIP Cleaning	Built-in Peristaltic Pump	—
Sampling	3 Sampling Lines / 1 Waste Line	2 Sampling Lines / 1 Waste Line
Flow Rate and Temperature	Flow Rate: 0–100 mL/min Temperature: 15–80°C	
Operation	TVF Action Synchronization, Centralized PC Control	
Piping, Fittings, and Sensor Materials	PFA, PTFE, and other fluoropolymers Tube Diameter: 1/4 inch *Optional: 1/8-inch piping and pipe insulation available.	
Frame Material	SUS304 Pickling Finish *Optional: Buff Finishing available.	
Main Unit Dimensions and Weight	W900 × D600 × H700 mm Approx. 40 kg With adjusters and casters	
Control Panel and Power Supply	Separate Unit (W700 × D300 × H900 mm, Approx. 30 kg) Single-phase AC 100 V, 60 Hz, 15A circuit breaker	



Tipton Corp.

Head Office 3-19-21 Toyoda, Minami-Ku, Nagoya, Aichi Prefecture 457-8566 Japan
Tel: +81-52-692-6666 Fax: +81-52-692-9445

Headquarter-Sales 3-19-21 Toyoda, Minami-Ku, Nagoya, Aichi Prefecture 457-8566 Japan
Tel: +81-52-692-7175 Fax: +81-52-692-0249

Tobishima Factory 3-25-1 Odakara, Tobishima-Mura, Ama-Gun, Aichi Prefecture 490-1438 Japan
Tel: +81-567-56-7500 Fax: +81-567-56-7513

Tipton USA Inc. 2450 W Broadway Rd. Suite 108, Mesa, AZ 85202, USA
Tel: +1-480-795-2647

Quality Assurance Section for Product Quality Tel: +81-567-56-7503 Fax: +81-567-56-7516
Engineering Section for Machine Maintenance Tel: +81-567-56-7504 Fax: +81-567-56-7514

Web Site https://www.tipton.co.jp
E-mail sales-department@tipton.co.jp
sales-department@tiptonusa.com (North America)

•INQUIRIES

※All unapproved reproductions of a report, a photograph, etc are forbidden found in this catalog.