



# Octave™ BIO Specification Sheet

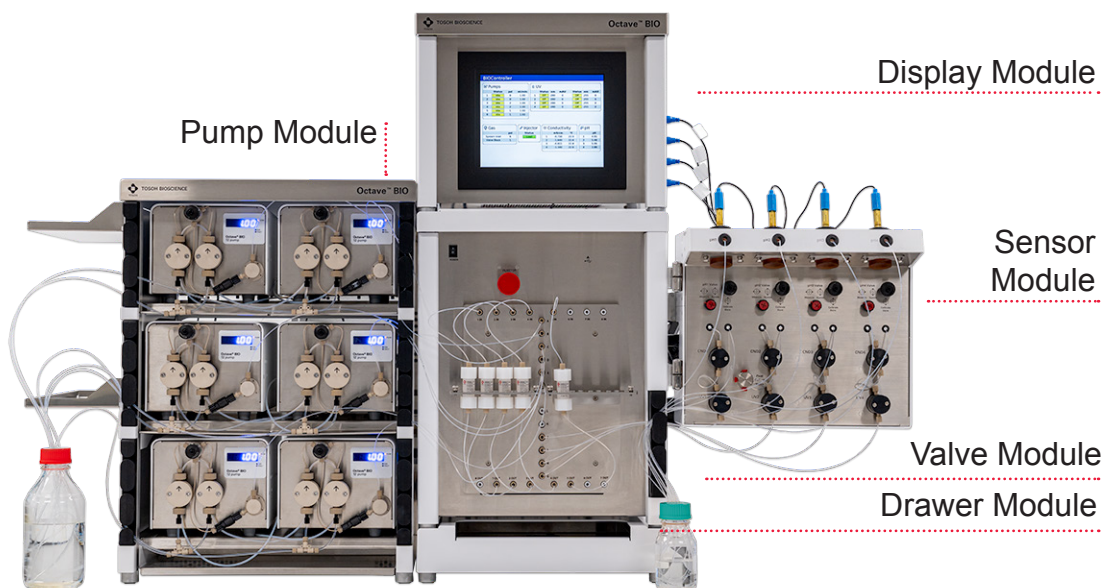
## System Overview

The Octave BIO from Tosoh Bioscience is the most comprehensive and versatile multi-column chromatography (MCC) system for process development and proof of concept. Leveraging established Octave MCC technology from other industries and tailoring it for bioprocess use cases, these systems are designed to intensify your existing biologic purification process. The unique modular design will fit your requirements and unlock the resin savings, buffer savings, and other tangible benefits that MCC can provide.

The system flowpath features PEEK tubing and a biocompatible valve block design that allows for the connection of 1 to 8 columns to accommodate increasingly intensified upstream titers, while reducing the clutter of rotary valves and external tubing. The system features

six independently driven pumps that are each assigned to a process fluid, with each pump being user replaceable among four sizes to cover a wide range of process scales. Built-in UV, conductivity, pH detectors enable complete process monitoring, while added features like the onboard sample injector, mixer, and gradient capability enable process design experiments as well.

The Octave BIO is the system to begin your process intensification journey, with tools and software to ease the transition. The BIOController™ system control software provides a clean, user-friendly interface to execute and monitor your MCC process, the PROComposer™ MethodWizard process design tool will translate your batch processes to continuous, while the PROComposer method authoring software is a unified solution to design not only small-scale processes, but also process-scale methods for our GMP-ready MCC solutions.



Pump Module	
6	Octave BIO Pumps
Valve Module	
1	Valve Block
1	Sample Injector
Drawer Module	
1	Reservoir Tray
Display Module	
1	System Status Display

Sensor Module	
4	Dual-channel UV Sensors
4	Conductivity Sensor
4	pH Sensors
1	Peak Collect Valve
User Interface, Software, and Support	
1	Windows 10 computer with monitor, keyboard, and mouse PROComposer MethodWizard process design tool PROComposer method authoring software BIOController system control software

## Specifications.

Description	Specifications
Dimensions (W / D / H)	159 x 51 x 98 cm; bench top
Weight	203 kg
Power requirements	100–120/220–240 VAC, 50/60 Hz
Valve pressure	At least 2 bar above process pressure
Flow rate range	up to 40 mL/min (1.0 mm valve block) up to 100 mL/min (1.6 mm valve block) up to 300 mL/min (2.4 mm valve block)
Inlets	6
Outlets	6
Columns	1-8
Maximum operating pressure	270 psi (18.6 bar)
UV sensors	4, LED, dual wavelengths (255 & 280 nm by default)

## Ordering Information.

### Systems

P/N	Description
0041100	Octave BIO System 12 mL/min Configuration.
0041101	Octave BIO System 36 mL/min Configuration
0041102	Octave BIO System 100 mL/min Configuration
0041103	Octave BIO System 300 mL/min Configuration

### Customization Options

P/N	Description
0041104	Octave BIO 1.0 mm valve block
0041105	Octave BIO 1.6 mm valve block
0041106	Octave BIO 2.4 mm valve block
0041107	Octave 12 mL/min pump
0041108	Octave 36 mL/min pump
0041109	Octave 100 mL/min pump
0041110	Octave 300 mL/min pump