



Flexible Single-Use Bioreactor Controllers Up to 2000 L

The Tezalon large-scale bioprocess controller provides simultaneous control of two single-use bioreactors (any brand) from 30 L to 2000 L. Controls are based on ISA-88 standards for maximum flexibility and enables manual to fully-automated operation.

Future-proof bioprocess control

The Tezalon Advantage:

- Brand-agnostic design for use with any single-use bioreactor from 30 L to 2000 L
- Capable of simultaneous operation of two different single-use bioreactor brands, as well as different size bioreactors
- Up to 8 mass flow controllers with variable ranges for low and high flow rates
- Up to 8 feed pumps with variable ranges for low and high flow
- Connect standard pH/DO probes or use optical patches
- Seamless integration with state-of-the-art automation platforms (DeltaV®, Rockwell Automation®, or other)
- Integrated exhaust filter heaters and RTD with options for temperature control via TCU

Technical Specifications

Attribute	
Operating Temperature	5 - 40°C
Relative Humidity	5 - 95%
Agitation	Single-Use Bioreactor
pH/DO	Presense for optical sensors - capable of standard pH/DO probes
Temp	100 ohm platinum
Liquid Control	Up to 8 feed pumps with variable ranges from low flow (1-1750 mL/min) to high flow (0-3500 mL/min)

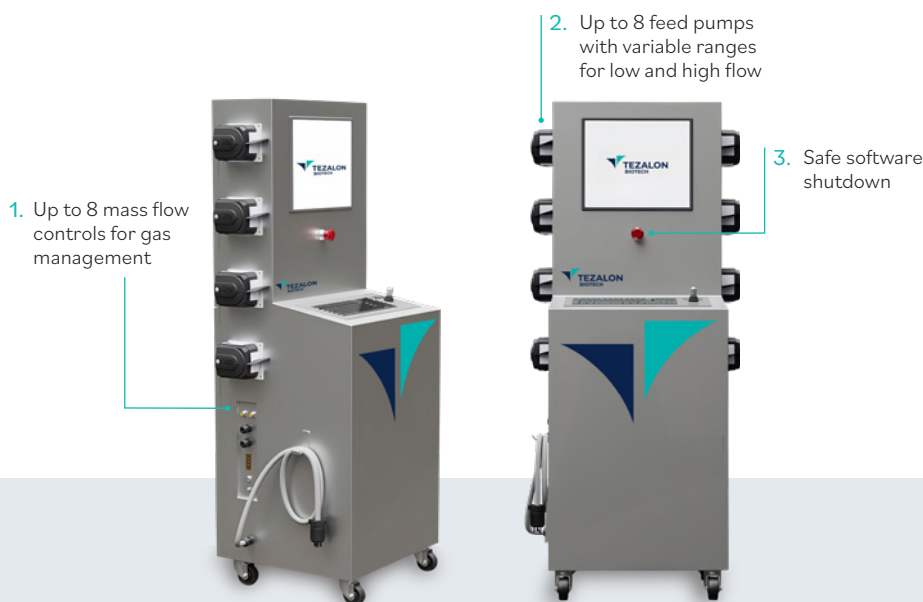
Specifications represent standard Tezalon model and may differ when customized for specific customer applications. DeltaV is a registered trademark of Emerson. Rockwell Automation is a registered trademark of Rockwell Automation, Inc.

ISA-88 standards maximize flexibility

Controls are based on an ISA-88 batch-compliant structure, which provides you the flexibility to use the bioreactor controller as a stand-alone system or part of a larger unified system architecture. Since the building blocks for automation are already in place, you can start out using the system with local control and then integrate with a larger system when you are ready. The controller allows for batch and recipe control and offers MES capability with little or no software modifications.

The bioprocess controller can be adapted to any modern automation and control platform—whether that's DeltaV®, Rockwell Automation®, or another platform. And we never lock down the system, which enables you to make modifications on your own.

Attribute	
Temperature Control	via TCU
Vent Filter Heater	Integrated exhaust filter heater
Gas Control	Integrated exhaust filter heater
Gas Control	Up to 8 MFCs with variable ranges from low flow (0-50 SLPM) to high flow (0-2500 SLPM)
Single-Use Vessels	30 - 2000 L single-use bioreactor
Dimensions	65 x 24 x 27.75 in (H x W x D)



For more information or product support:

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