qEV ZENCO

Automated chromatography systems for purifying samples using the qEV2, qEV10, qEV100 and larger customised qEV columns.

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The qEV Zenco is available in 2 models:

- qEV Zenco (Standard)
- qEV Zenco Pro: This version incorporates modifications to suit cGMP environments. These specifications are subject to change and can be adapted to suit your specific requirements.

Table 1: Product Compliance Information for both qEV Zenco Models

Safety	IEC/UL 61010-1, CAN/CSA-C22.2. No. 61010.12
EMC (Electromagnetic compatibility)	IEC, US 47 CFR part 15, Subpart B, Class A
Environment	RoSH2&3, WEEE

Table 2: cGMP Compliance Information for the qEV Zenco Pro

Software	21 CFR part 11
Material specifications of wetted parts (i.e., wetted parts of components that come into direct contact with process fluids or product)	USP class VI or ISO 10993, 21 CFR 177, animal origin free or in compliance with EMA/410/01, Quartz glass, Fused silica, Borosilicate glass to ASTM E483 Type 1 Class A, Stainless steel 316L ASME-BPE

Table 3: Specifications of Key Components

	qEV Zenco (standard)	**qEV Zenco Pro (for cGMP-compliant environments)**
Regulatory requirements	See electrical compliance information above	See electrical compliance and cGMP compliance information above
Shell	Powder coated steel	Stainless steel
Device-PC connection	USB-C	USB-A
Touch Screen	No	13 inch, Windows 11
Inlet valve	Rotary valves 8 inlets	Pinch valves 8 inlets

Pump	One piston pump Max operation pressure: 10 bar Max operation flow: 100 mL/min; Accuracy: 1.5%	Two peristaltic pumps with the ability to add or remove one during construction. (i.e. 1 of the pumps is modular) Max operation pressure: 2 bar Max operation flow: 100 mL/min for one pump, 200 mL/min for two pumps Accuracy: 2%
Pressure sensor	0-10 bar Accuracy: BFSL ± 0.5% FSO	0-10 bar Accuracy: BFSL ± 0.25% FSO
In-loop air sensor	No	Modular/optional
Flow direction valve	Rotary valves	Pinch valves
Post-column conductivity detector	Range: 0.02 – 200 mS/cm; Accuracy: ± 2%, min ± 20 µs/cm	Range: 0.02 – 200 mS/cm, Accuracy: ± 2%, min ± 20 µs/cm
Post-column UV detector	1 wavelength (190-400 nm), variable Accuracy: ±1 nm	2 wavelength (190-400 nm), variable Accuracy: ±1 nm
Outlet valves	Rotary valves 8 outlets	Pinch valves 8 outlets
Back pressure valve	Yes	No
Power supply	24 V connection into the unit. 110 V and 220 V to 24 V power bricks so unit can be plugged into wall socket.	24 V connection into the unit. 110 V and 220 V to 24 V power bricks so unit can be plugged into wall socket.
Fraction collector	No	Modular; can be added or removed during construction. Non-pharm grade.
Tubing	Before pump: ID 1.59 mm PTFE; pump to outlet: ID 1 mm PEEK; Outlet: ID 0.75 mm PTFE	Tubing size will be selected according to flow rate Silicone Compliance with USP ‹88› Class IV or ISO 10993
Data outputs	CSV including the following information: Sample ID, column information, fraction identification, retention time, plot of UV vs volume. Include any adjustable parameters Sample rate: 0.5 samples per second is acceptable	PDF including the following information: Sample ID, column information, fraction identification, retention time, plot of UV vs volume. Include any adjustable parameters Sample rate: 0.5 samples per second is acceptable
Mixer	No	Mixing is achieved by mixing buffers from different pumps to create a salt gradient
Enclosure protective class	IP21	IP21

Got questions?

Get in touch for more information about product details, lead times or to request a quote.

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