

CONTICHROM® CUBE 100 TECHNICAL SPECIFICATIONS

Main system components	•	p combined for single binary linear go p with eluent selection valve for up t	
		sor, 4 variable wavelengths	o o cidents
	2x conductivity ser		
	2x temperature se		
	1x pH sensor	11301	
	4x multi-position v	valve (actuated)	
	2x drain valve (act		
	4x manual drain value		
	4x pressure transc		
Communication and control	1x operating comp		
	1x ChromIQ® oper		
Maximum system pressure	• 100 bar (10 MPa,	-	
System dimensions	Contichrom CUBE, (stack	tichrom CUBE, (stacked CUBE and CUBE+ modules):	
	• Width:	450 mm	
	Height:	584 mm	
	• Depth:	456 mm (600 mm incl. dynamic n	nixing chamber)
	• Weight:	30 kg (67 lbs, CUBE unit), 17 kg (3	88 lbs, CUBE+ unit)
	External UV detectors (2 stacked units):		
	• Width:	280 mm	
	Height:	270 mm	
	• Depth:	463 mm	
	• Weight:	15 kg (33 lbs, 7.5 kg/16.5 lbs each	n)
	Complete system incl. fr	action collector excl. operating comp	uter:
	• Width:	120 cm	
Power specifications	Supply voltage:	100-240 V (AC)	
	Maximum power:	CUBE and CUBE+ unit combined:	
		External UV detectors:	120 W each
	• Fuses:	CUBE and CUBE+ unit:	2x T2AL250V each
Pump description	Flow rate:	External UV detectors: 0.5 – 100 mL/min	1x T2.5AH250V each
rump description	Accuracy:	Within 2 % above 2.0 mL/min	
	Precision:	0.5 % relative standard deviation	
	Pulsation:	Within 4 % (50 mL/min, 17 bar/25	
	 Active seal wash 	, , , , , , , , , , , , , , , , , , , ,	,
	 Wetted materials: 	PEEK, Synthetic Ruby, Sapphire, Z	irconia, UHMWPE,
		FFKM, PFA, ETFE	
UV detector description	 Variable waveleng 	th UV detector	
	• Channels:	4 per column position	
	 Wavelength range 		
	Linear range:	0 – 1000 mAU	
	Light source:	Deuterium lamp	
	Optical path lengt		
Multiport value description	Wetted materials:		
Multiport valve description	Electrical actuation Wetted materials:		
	 Wetted materials: 	PEEK	



sensor description Temperature sensor Wetted materials: Titanium, PEEK PH sensor description External pH probe with flow cell pH measurement 1-14 Pressure rating 7 bars (0.7 MPa, 100 psi) Wetted materials: PEEK, glass Flow path materials Tubing on low pressure side: PEEK, 1/16" OD, 0.04" ID Tubing on low pressure side: FEP, 1/8" OD, 1/16" ID Fittings: PEEK (PP + CTFE on buffer selection valves) Process capabilities CaptureSMB with AutomAb® dynamic process control McSGP with AutoPeak® dynamic process control N-Rich with AutoPeak® dynamic process control N-Rich with AutoPeak® dynamic process control Single column batch chromatography with linear gradient capability Dual column batch chromatography with inite gradient capability Dual column batch chromatography with inite dilution in-between the two columns Fraction collector (optional) Fraction collector Foxy R1 with integrated diverter valve, holds up to 1 rack Fraction collector Foxy R2 with integrated diverter valve, holds up to 2 racks Fraction capacity: All standard formats including 96-well plates, 15 mL and 50 mL tubes Operation Cold room (4 "C) compatible 8 buffer/solvent inlets on isocratic pumps 1 buffer/solvent inlets on isocratic pumps Cold room (4 "C) compatible 8 buffer/solvent inlets on isocratic pumps ChromIQ® operating software for operation and evaluation of batch and continuous chromatography Wizards for batch chromatography, integrated 2-column chromatography, CaptureSMB, MCSGP, N-Rich Automab® dynamic process control for CaptureSMB AutoPeak® dynamic process control for method programming with full access to detailed method program for advanced users Pause/continue functionality, also for continuous chromatography operations Data evaluation module	Conductivity/temperature	Conductivity 0 – 250 mS/cm, temperature compensated		
Wetted materials: Titanium, PEEK External pH probe with flow cell pH measurement 1-14 Pressure rating 7 bars (0.7 MPa, 100 psi) Wetted materials: PEEK, glass Flow path materials PTubing on high pressure side: PEEK, 1/16" OD, 0.04" ID Tubing on low pressure side: PEEK, 1/16" OD, 0.04" ID Fittings: PEEK (PP + CTFE on buffer selection valves) Process capabilities CaptureSMB with AutomAb® dynamic process control NrSGP with AutoPeak® dynamic process control NrSich with AutoPeak® dynamic process control Single column batch chromatography with linear gradient capability Dual column batch chromatography with linear gradient capability Dual column batch chromatography with linear gradient capability Dual column batch chromatography with inline dilution in-between the two columns Fraction collector (optional) Fraction collector Foxy R1 with integrated diverter valve, holds up to 1 rack Fraction collector Foxy R2 with integrated diverter valve, holds up to 2 racks Fraction capacity: All standard formats including 96-well plates, 15 mL and 50 mL tubes Operation Cold room (4 °C) compatible B buffer/solvent inlets on isocratic pumps 1 buffer/solvent inlets on isocratic pumps PRecommended column inner diameter: 0.8 – 5.0 cm Operating software description ChromIQ® operating software (in English) Integrated, intuitive software for operation and evaluation of batch and continuous chromatography, integrated 2-column chromatography, CaptureSMB, MCSGP, N-Rich AutomAb® dynamic process control for MCSGP and N-Rich Run log stores all information for each chromatography run Easy-to-use graphical user interface for method programming with full access to detailed method program for advanced users Pause/continue functionality, also for continuous chromatography operations Data evaluation module				
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 AutoPeak® dynamic process control for MCSGP and N-Rich Run log stores all information for each chromatography run Easy-to-use graphical user interface for method programming with full access to detailed method program for advanced users Pause/continue functionality, also for continuous chromatography operations Data evaluation module 		CaptureSMB, MCSGP, N-Rich		
 Run log stores all information for each chromatography run Easy-to-use graphical user interface for method programming with full access to detailed method program for advanced users Pause/continue functionality, also for continuous chromatography operations Data evaluation module 		AutomAb® dynamic process control for CaptureSMB		
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 Pause/continue functionality, also for continuous chromatography operations Data evaluation module 				
Data evaluation module				
		Pause/continue functionality, also for continuous chromatography operations		
OPC compatible				
		OPC compatible		
 User management gives high operational and data security 		User management gives high operational and data security		