

CONTICHROM® CUBE 30 TECHNICAL SPECIFICATIONS

Main system components	• 2x dual-head pump	sor lve (actuated) ated) ve	
Communication and control	 1x operating compu 1x ChromIQ® operation 		
Maximum system pressure	• 100 bar (10 MPa, 14	50 psi)	
System dimensions	Contichrom CUBE, (stacked CUBE and CUBE+ modules):		
	• Width:	450 mm	
	Height:	584 mm	
	Depth:	456 mm (600 mm incl. dynamic m	ixing chamber)
	• Weight:	30 kg (67 lbs, CUBE unit), 17 kg (3	8 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)
	Complete system incl. frac	tion 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:	170 W 120 W each
	• Fuses:	CUBE and CUBE+ unit: External UV detectors:	2x T2AL250V each 1x T2.5AH250V each
Pump description	• Flow rate:	0.1 – 36 mL/min	
	Accuracy:	Within 2 % above 0.80 mL/min	
	• Precision:	0.5 % relative standard deviation	
	Pulsation:	Within 2 % (1 mL/min, 50 bar/750) psi)
	Active seal wash	BEEK 6	
	 Wetted materials: 	PEEK, Synthetic Ruby, Sapphire, Z FFKM, PFA, ETFE	irconia, UHMWPE,
UV detector description	 Variable wavelength 	UV detector	
	• Channels:	4 per column position	
	Wavelength range:	200 – 600 nm	
	Linear range:	0 – 1000 mAU	
	Light source: Optical path length:	Deuterium lamp	
	Optical path length:Wetted materials:	PEEK, Quartz, PTFE, SST	
Multiport valve description	 Electrical actuation 	1 LLN, Qualtz, F 1FL, 331	
- p	• 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 high pressure side: PEEK, 1/16" OD, 0.03" ID Tubing on high pressure side: PEEK, 1/16" 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 Single column batch chromatography with linear gradient capability Dual column batch chromatography with linear gradient capability Dual column alternating batch chromatography with linear gradient capability Dual column alternating batch chromatography with linear gradient capability Dual column alternating batch chromatography with line dilution in-between the two columns 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 Operation Operating software description Process capabilities Suffer/solvent inlets on isocratic pumps 1 buffer/solvent inlets on isocratic pumps 2 buffer/solvent inlet per pump on binary gradient pump Recommended column inner diameter: 0.5 – 2.7 cm Operating software description Operating software description Operating software description Operating software description AutomAb® dynamic process control for CaptureSMB AutoPeak® 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	Conductivity/temperature	Conductivity 0 – 250 mS/cm. temperature compensated		
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OPC compatible				
 User management gives high operational and data security 		User management gives high operational and data security		