

ECB2004B

GRADIENT BOX WITH DEGASSER



Box is suited for handling liquids in ECOM gradient systems. It accommodates a container for solvent bottles, built-in **high-efficiency on-line degasser** and **four-way gradient valve**.

Degasser unique design assures reliable operation and the highest level of continuous performance available **without the need for helium degassing**. Up to four solvent lines may be degassed simultaneously by one unit. One additional channel is reserved for degassing of gradient valve output.

Extremely low internal volume of each Systec AF™ channel (480 µl) offers very fast equilibration and **very short startup times** compared with PTFE degassing channels which have the same degassing efficiency.

Four-way gradient valve is controlled from the pump ECP2010 and 2010H and gradient box ECB2004 must be ordered with the pump. Pumps have new sophisticated electronics which allows achieving precise **low-pressure gradient**, i.e. gradual **changes of mobile phase composition** by mixing **up to four liquids** at the pump's entry. It is also possible to predefine the percentage of composition when using the pump in isocratic mode. Gradient profile can be defined from computer or pump.

Up to **6 mobile phase reservoirs** LCT 02 (1L) may be put into the box.

SPECIFICATION

Degasser	
Degasser channels	5 independent
Degassing process	Gas permeation through a fluoropolymer membrane
Maximum flow rate	10 mL/min.
Maximum operating pressure	0.5 MPa (70 psi)
Degassing capacity	~2 ppm at 1 mL/min.
Degassing efficiency per channel	up to 3 mL/min excellent, up to 5mL/min sufficient
Dead volume of degasser channel	~480 µl per channel for standard channel
Wetted materials	Systec AF™, PPS, Glass-filled PTFE, Stainless Steel 316
Gradient valve	
Number of gradient valves	4 (A, B, C, D)
Maximum operating pressure	3 bar (43.5 PSI)
Orifice	0.031" (0.8 mm)
Wetted materials	Simriz®, PEEK
Common parameters	
Materiály přicházející do styku s kapalinou	FEP, PEEK, KEL-F, PTFE, PS, Tefzel™
Connecting thread	¼"-28 flat bottom
Power supply	100-240V 50/60Hz 40VA
Inside box dimensions (w x h x d)	267 x 56 x 305 mm
Dimensions (w x h x d)	280 x 135 x 498 mm
Weight	7 kg