

ECB2004

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 Teflon 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. Pump new sophisticated



electronics 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. The gradient profile can be defined from computer.

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

SPECIFICATION

TECHNICAL PARAMETERS

Degasser	
Degasser channels	5 independent
Degassing process	Gas permeation through a fluoropolymer membrane
Maximum flow rate	10 mL/min.
Degassing capacity	~2 ppm at 1 mL/min.
Dead volume of degasser channel	~480 µl per channel for standard channel
Wetted materials	PEEK, Glass-filled PTFE, Teflon AF®
Gradient valve	
Number of gradient valves	4 (A,B,C,D)
Maximum operating pressure	1.38 bar (20 PSI)
Orifice	0.062" (1.6 mm)
Wetted materials	PTFE
Common parameters	
Connecting thread	¼"-28 flat bottom
Power supply	100-240V 50/60Hz 20VA
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