

# 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. The **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 through the computer.

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

### SPECIFICATION

#### TECHNICAL PARAMETERS

<b>Degasser</b>	
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®
<b>Gradient valve</b>	
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
<b>Common parameters</b>	
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