

ECB2004PB

GRADIENT BOX WITH DEGASSER AND PC

Box is suited for liquid handling in ECOM gradient systems. It accommodates a container for solvent bottles, built-in **high-efficiency on-line degasser** and **four-way gradient valve**. To have HPLC system **as small as possible** this box also includes **industrial PC board**. This solution allows installation of **OS** (Windows or Linux) and chromatography **SW ECOMAC or Clarity**.

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 ECB2004BP must be ordered with the pump.



Pumps have new sophisticated electronics which allows achieving precise **low-pressure gradient**.

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	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	
Wetted materials	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
Main board	3.5" Board Intel Atom Processor E3845 (1.91GHz/4Core)
System Memory	SO-DIMM DDR3L-4 GB
Ports	1x USB 2.0; 1 x USB 3.0; 2 x Ethernet 10/100/1000 Mbps; 3x RS232; 1 x RS232/485
Display	1 x VGA; 1 x DDI (DisplayPort, HDMI, DVI)
Storage	SSD 120GB