

ECP2050 ECP2200 ECP2300

PREPARATIVE HPLC PUMPS

Is a series of three pumps with a flow-rate range up to **50, 250 and 300 ml/min**. These pumps work as **isocratic** pump and together with **Gradient Box** also as **gradient** pump.

ECB2007, ECB2007PC (ECB2005, ECB2005PC) Gradient Box is equipped with four way gradient mixing valve and must be ordered together with the pump.

These pumps are suited for **preparative** applications in liquid chromatography. There are designed with main and auxiliary pump heads connected in parallel with a piston diameter of 3/8". New sophisticated unit allows achieving a precise **low-pressure gradient**, i.e. gradual changes of



solvent composition by mixing **up to four liquids** at the pump's entry. It is also possible to predefine percentage of composition when using the pump in isocratic mode. The gradient profile can be defined from computer or manually using display and keypad. There are many improvements which make pumps more reliable include a new learning algorithm for **pulsation suppression**; leakage sensor etc.

When necessary, it is possible to use **back washing of pistons** (e.g. when using buffered mobile phase).

Pump is supported by **ECOMAC** and **Clarity** software.

All pumps are delivered with GFP (PTFE) seals a default, recommended optimal seals are UHMW-PE seals, ask for more information.

SPECIFICATION

| TECHNICAL PARAMETERS: | ECP2050 | ECP2200 | ECP2300 |
|---------------------------------------|--|---|---------------------------|
| Part number | ACC0000X | ACHE000X | ACE0000X |
| Flow rate | 0.1 – 50 ml/min | 0.5 – 250 ml/min | 0.6 – 300 ml/min |
| Maximum operating pressure | 30 MPa (4351 psi) | 30 MPa (4351 psi) up to 100 ml/min; 15 MPa (2176 psi) at 250 ml/min | 15 MPa (2176 psi) |
| Precision of pressure measurement | ± 2% | | |
| Flow rate setting | 0.1 ml/min steps | 0.1 ml/min steps | 0.1 ml/min steps |
| Repeatability of flow rate adjusting* | ± 0.5 % | ± 1 % | ± 0.5 % |
| Accuracy of flow rate setting* | ± 2 % | | |
| Upper pressure limit (MPa) | 1– 30 (4351 psi) | 1– 30 (4351 psi) | 1– 15 (2176 psi) |
| Wetted materials | stainless steel, PEEK, Tefzel™, PE, ceramic, seals | | |
| Control | RS232, Ethernet(LAN), USB | | |
| Power supply | 100-240V 50/60Hz 100VA | 100-240V 50/60Hz 250VA | 100-240V 50/60Hz 200VA |
| Supported Gradient Box | ECB2007, ECB2007PC | ECB2005, ECB2005PC | ECB2005, ECB2005PC |
| Dimensions (W x H x D) | 280 x 135 x 498 mm (11.02 x 5.12 x 18.23 in) | | |
| Weight | 12 kg (26,5 lb) | 13.5 kg (30 lb) | 13 kg (28.7 lb) |
| Output capillary outer diameter | 1/16" | 1/8" | 1/8" |
| Input tubing outer diameter | 1/8" | 3/16" | 3/16" |

*10 ml/min. 12 MPa H₂O (ECP2050), 100 ml/min 15 MPa H₂O (ECP2200), 150 ml/min. 7.5 MPa H₂O (ECP2300)