

# THETA

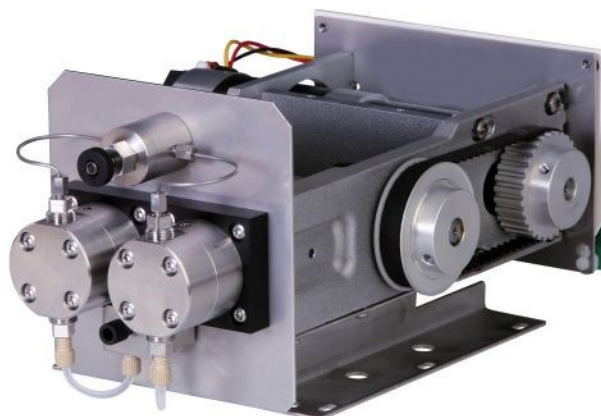
## 50, 100, 300

### PREPARATIVE PUMPS

Is a series of three pumps with a flow-rate range up to **50, 100 and 300 ml/min**. They have two pistons connected in parallel, with diameter of 3/8". They are suited for preparative and flash applications in liquid chromatography but also for solvent pressurizing by samples extractions, etc. Beneficiary is also a **very stable run even at low flow rates**.

These pumps are designed as **OEM / built-in units**.

There is a possibility to use these pumps even at **high pressure gradient mode**, where are two, three or four units controlled from PC using RS232 or voltage.



Control board is mounted at the unit back side therefore the installation is very easy. Only connect power voltage and RS232 and pump is ready to work.

When working with buffered solvents, it is possible to use pistons **back washing**.

Pumps are supported with software **ECOMAC** and **Clarity**.

**THETA PUMPS aren't equipped with pressure sensor.**

#### SPECIFICATION

|                                      | THETA 50                               | THETA 100         | THETA 300         |
|--------------------------------------|--|-------------------|-------------------|
| Part number                          | PT00000X                               | PTC0000X          | PTD0000X          |
| Flow rate                            | 0.1 – 50 ml/min                        | 1 – 100 ml/min    | 1 – 300 ml/min    |
| Maximum operating pressure           | 30 MPa (4351 PSI)                      | 15 MPa (2176 PSI) | 7.5MPa (1015 PSI) |
| Flow rate setting                    | 0,1 ml/min steps                       |                   |                   |
| Repeatability of flow rate adjusting | ± 1 %                                  |                   |                   |
| Accuracy of flow rate setting        | ± 2 %                                  |                   |                   |
| Wetted materials                     | stainless steel, PEEK, ceramic, seals* |                   |                   |
| Control                              | RS232                                  |                   |                   |
| Power supply                         | 24 – 36 V DC                           |                   |                   |
| Power input                          | 100 W                                  | 100 W             | 150 W             |
| Dimensions (W x H x D)               | 212 x 153 x 338 mm                     |                   |                   |
| Weight                               | 7 kg                                   | 7 kg              | 8 kg              |
| Output capillary outer diameter      | 1/16"                                  | 1/16"             | 1/8"              |
| Input tubing outer diameter          | 1/8"                                   | 1/8"              | 3/16"             |

\* all pumps are delivered with GFP (PTFE) seals a default, optional is UHMW-PE seals, ask for more information