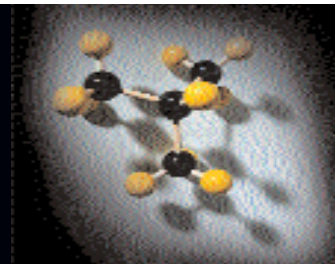


CEREX System-96

for Positive Pressure SPE



BETTER REPRODUCIBILITY

Highly uniform flow column-to-column

MORE CONVENIENT

No caps or plugs required for open column ports

EASIER TO USE

Higher pressure differential for viscous samples

REDUCED CARRY-OVER

Pressure-sealed column processing

MORE POWERFUL

Built-in nitrogen or air drying of extracts

The new CEREX System-96 processor for Positive Pressure SPE offers state-of-the-art operation for SPE in 96-well plate formats. Positive pressure processing of SPE plates has a number of advantages compared to traditional vacuum manifold processing.

A major problem with conventional vacuum manifolds occurs as faster flowing channels in the SPE plate run dry, allowing a free flow path for vacuum through the dry ports, thereby slowing the flow on the remaining columns. This results in additional variation in column processing times, thus contributing to irreproducible analyte recoveries. Also, modular plates populated with fewer than 96 columns must be plugged on the open ports to prevent loss of vacuum, which causes insufficient flow for the populated channels.

In contrast, the System-96 uses unique, restricted gas ports. These ports create gas flow control such that even if 95 processing channels are wide open, the remaining single channel will receive appropriate pressure to allow facile processing. This feature provides very uniform flow across all column channels, and eliminates the need for plugs or caps when processing fewer than 96 samples on a modular plate.

When processing viscous samples, vacuum manifolds often cannot provide adequate processing power, since the maximum pressure is limited to something less than atmospheric pressure (approx. 15 p.s.i.). The System-96 allows for gas pressures up to 30 p.s.i., supplying greater motive force for viscous sample flow. If the user adjusts the pressure up or down, the column flow response is smooth and immediate.

In addition, the column openings are sealed by positive gas pressure applied to the sealing gasket. This ensures no carry-over channel-to-channel. Use of gas pressure adds a built-in capability for evaporation of extract elution solvent prior to reconstitution in mobile phase.

Finally, unlike many 96-well vacuum manifolds, the CEREX System-96 is self-adjusting to plate height, thus accommodating all commercial 96-well plates, both modular and integrated, without the need for gaskets or spacers.

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Everything New Under the Sun.

OPERATION

The System-96 is simple and convenient to operate. After initial connection to an instrument-grade gas supply (typically nitrogen), the System-96 may be controlled via the switches illustrated in Figure 1. The 96-well

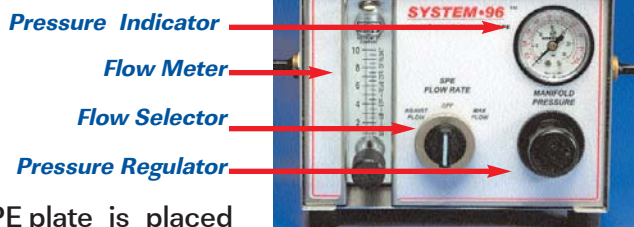


Figure 1 - System-96 Control Switches

SPE plate is placed atop a reusable waste collection plate, and the assembly is set onto a sliding platform (Figure 2). The protocol solvent to be processed is added to the



Figure 2 - Plate atop sliding platform

SPE plate, the assembly is slid to the rear of the unit under the pressure manifold and the plate is raised against the pressure manifold via a hydraulic piston using switches on either side of the unit (Figure 3). Gas is then applied to one of two preset, continuously adjustable pressures, via a user-selectable switch position. The protocol solvent passes through the columns, the process is reversed, and the next solvent is applied. These steps may be repeated as many times as desired (once for each protocol solvent).

For elution, the waste plate is replaced with a collection plate, and the collected eluent in the plate may be dried down using the processing gas, or transferred directly to an HPLC autosampler for injection. The entire process is rapid and facile.



Figure 3 - Plate slides back and is raised against pressure manifold

In summary, the CEREX System-96 is powerful, fast and convenient, offering the best technology available for reproducible, high quality SPE processing of 96-well plates.

CEREX 96-WELL SPE PLATES

Hologent also supplies a line of SPE plates optimally designed for use with the System-96 processor. Based on patented manufacturing technology and using advanced microparticulate sorbents, CEREX SPE plates offer much higher performance than conventional SPE sorbents, with greater relative capacities and reduced elution volumes. Please contact Hologent for more information.

CEREX SYSTEM-48

For individual SPE column processing, contact Hologent about the CEREX System-48 processor. Using the same principles of operation as the System-96, the System-48 can process 48 SPE columns of up to 6 milliliter barrel size.

ORDERING INFORMATION

Part Number	Description	Price (\$)
288-0001	*System-96 Processor-II	\$3328
278-0032	10mL x 24 Collection Tray	11
278-0034	1mL x 96 Collection Tray	11
278-0038	2mL x 96 Collection Tray	11
278-0037	96 Column Holder	42
278-0035	96 Place Sealing Gasket	45
279-0010	Gas Supply Adapter	15

(*Includes 278-0034, -0035, -0037, & 279-0010, Optional Heater avail.)

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