Chromatography Station

Automate Process Operations with a Single Unit: Save Cleanroom Space and Time

- **Automated preprogrammed methods**
- **Minimum clean room space required**
- **All-in-one system design**
- **Controlled by industrial wireless tablet PC**
- **U.S. FDA 21 CFR Part 11 regulations–compliant software**
- **Designed for multiple packing methods**
- **Low mechanical shear during media transfer**
- **No media loss during packing**
- **Adjustable height adaptor for axial compression**
- **Hoist-free operation**

VERDOT Ips²'s process chromatography station features a high level of automation.

The configuration with the motorized VERDOT Ips² InPlace™ column automatically runs the complete purification process by using pre-programmed methods, starting from column preparation, filling, packing, purification, re-slurrying, and unpacking to cleaning and post-processing. Operator variances are eliminated and reproducible results are ensured.

The compact design of the process chromatography station is ideal for small-scale production of pharmaceuticals using column diameters ranging from 100–300 mm, with flow rates from 5–120 L/hr.

Its compact size is especially advantageous where space is limited.

All-in-One Design

The VERDOT Ips² process chromatography station 00 is composed of the following:

- VERDOT Ips² process skid MiniPro
- VERDOT Ips² process chromatography column
- Prep station including components for media transfer and column lifting
- Wireless tablet PC

Pneumatic or electric components, as well as additional accessories used for media transfer or for lifting column parts, are integrated in the prep station. This design allows the customer to perform all operations for the chromatography process within a single unit, retaining all features and benefits of the separate equipments.

Controlled by an Industrial Wireless Tablet PC

All actions on the process chromatography station are programmed and controlled with the tablet PC, which is a part of the standard equipment. The wireless connection enables the customer to operate the column and the skid from outside the cleanroom.

InPlace
& Integrated

Purification
Process

Support
& Service

VERDOT

User-friendly Software

The software controls and synchronizes the process skid, column motorization, components for media transfer, and accessories for enabling automatic sequences (that is, slurry transfer combined with packing modes or media re-slurrying combined with unloading).
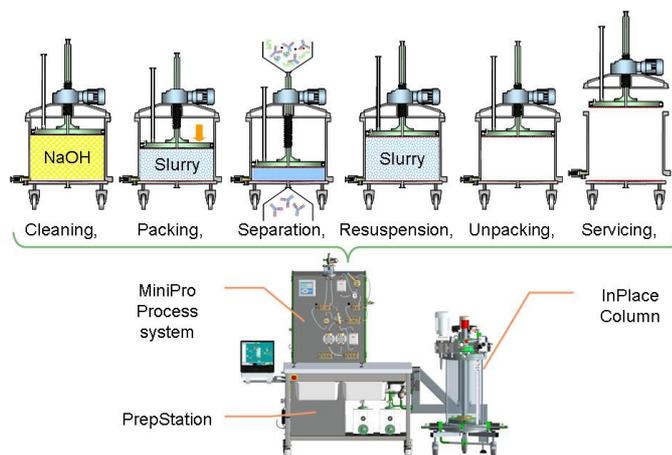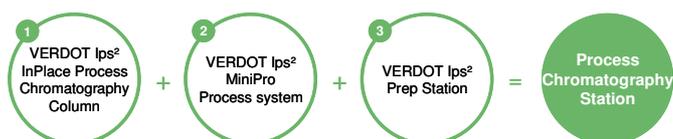
Best practices and methods of VERDOT Ips² in relation with chromatography media vendors have been created for various media. These are preprogrammed as recipes in the software and can be used as is or modified to user-defined procedures. This simplifies the column preparation from slurry transfer to unpacking and ensures reproducibility. It also provides required documentation of each step.

The software is designed according to Good Automated Manufacturing Practice, GAMP 5, 21 CFR part 11 and consists of four access levels (viewer, operator, supervisor, and administrator). It enables the customer to easily program the packing procedure for the column as well as parameters for running the purification on the process skid. Drop-down menus and pop-up screens intuitively guide the user through the programming. Parameter input can be either via keyboard or touchscreen interface of the tablet PC.

Each option includes the required combination of hardware and software modules.

All standard optional components have been validated on the VERDOT Ips² platform.

Create Your Process Chromatography Station

Modular Concept

The process chromatography station can be adapted to process requirements by integrating options for the VERDOT Ips² MiniPro process system (bulletin DP-MKT-297-00 MiniPro) and selecting the appropriate VERDOT Ips² InPlace process chromatography column (bulletins DP-MKT-296-00 InPlace).

Depending on the column type, the prep station is equipped to drive the following:

- Column motorization of the VERDOT Ips² InPlace or VERDOT Ips² EasyPack column

- Media transfer of the VERDOT Ips² InPlace column in a contained system

Ordering Information

Catalog#	Description
Process Chromatography Columns	
Varies*	VERDOT Ips² InPlace Process Column, 180-300 mm
MiniPro Process Chromatography System	
7393006	VERDOT Ips² MiniPro Process Chromatography System
Select your options for VERDOT Ips² MiniPro Process Chromatography System	
7393146	Air sensor after bubble trap
7393272	Pressure sensor after column
7393156	Conductivity monitor before column
7393166	pH monitor before column
7393126	4 additional outlets
PrepStation	
7393810	Configuration for InPlace column motorized

* Please go to www.verdotips2.com to select the appropriate InPlace column

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