



Chromatography columns from Ø10cm to Ø20cm

Modular design easily adapted to various applications

High-performance flow distributor

High packing efficiency

Complete documentation for regulatory submissions

A modular and compact chromatography column for pilot and small scale purification

VERDOT PilMod column range is specifically designed for pilot and GMP industrial scale applications. The sanitary design ensures hygienic performance and thorough cleanability. A complete set of documentation is supplied for regulatory submissions.

PilMod columns support packing of all chromatographic media and are easily adaptable to various chromatography modes.

VERDOT PilMod columns are made from very durable materials. Good conditions of use and regular maintenance (annual change of seals, checking of the filters) allow them an indefinite lifetime.

Different type of motorization are available:

- Electrical motorization is proposed in 115V or 220V
- Pneumatic motorization is compatible with explosive atmosphere

▪ 2S column

VERDOT PilMod 2S column is specifically designed for applications using food grade media. High H/D ratio combined to high-performance, low volume dispensers allows an optimal concentration of the purified product.

Please contact VERDOT's team for any special request.

Flexible design for multiple applications

VERDOT flexible design allows PilMod column to be converted in a few minutes from one mode to another just by replacing the top assembly.

▪ Packed Bed

With packed bed mode, media can be packed in homogeneous beds from 10cm high by using either flow packing or axial compression techniques.

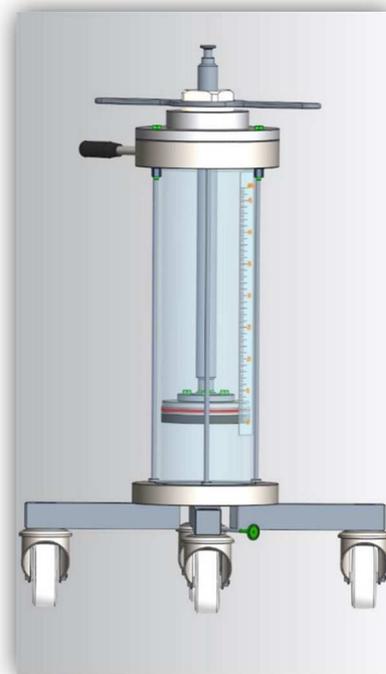
The variable height adaptor is equipped with a mechanic seal and suits ideally for dynamic axial compression.

▪ Expanded Bed

The packed bed mode can be converted to expanded bed mode by replacing the bottom filter by a special module to improve distribution through the media.

▪ Agitated Mode

VERDOT offers solutions for your stirred bed chromatography processes with the Agitation Kit enclosing special cover with 2 ports and Low Shear Propeller.



PilMod D140 in Packed Bed Configuration



The PilMod D100 mm configurations

Easy to use

Up to 10 cm, Pilmod columns are presented on a special stand. Tubes feature handles for easy removal from the support to facilitate filling and emptying operations. The stand also includes a support for holding the top adaptor when the column is opened. This special support can be placed on the floor as well as on a lab table.

PilMod column above 10cm diameter are installed on quadripod mounted with swivel casters. Filling and emptying can be easily accomplished by using an external pump.

Clamp connections are available on the top and bottom of the PilMod column for an easy connection to your chromatography processes.

VERDOT column are supplied with a complete User Manual including instructions for Maintenance. The columns are totally dismountable and all parts are easy to replace.

Specifications

Dimensions	Internal diameter	10 cm, 14 cm, 20 cm
	Tube height	50 cm in standard 100cm for 2S configuration
Service pressure	Up to 6 bar	
Temperature	2°C to 30°C 60°C max for CIP	
Surface finish	Ra ≤ 0.6 µm	
	Material	Sintered mesh 316L
Filter	Porosity	From 5µm to 90µm absolute (Std: 25µm abs)
	Connections to process	Tri-clamp TC25
Minimum bed volume	0.8L	
Supply	For Electrical agitation	115V or 220V
	For Pneumatic agitation	6 bar
Overall footprint dimension	D10cm	0.22m ²
	D20cm	0.46m ²
Material of the frame	Stainless Steel 304, Plastic	
Materials	Tube	Borosilicate glass 3.3
	Distributors	316L
	Seals	EPDM
	Filters	Stainless Steel 316L
Certificates	All wetted part in compliance with FDA requirement and USP Class VI 3.1 certificates delivered with stainless steel parts	