

Te-VacS™ vacuum separation module



Fully automated vacuum separation

The Te-VacS system is a versatile vacuum separation module for Tecan pipetting platforms. It is designed to fully automate cartridge-based filtration and/or solid phase extraction (SPE) processes. The Te-VacS is able to host virtually any microplate type extraction cartridge. It can be operated singly or in combination with other modules on Tecan pipetting platforms thereby eliminating cost-intensive hands-on time by lab personnel.

The Te-VacS module provides two separate vacuum positions connected to a high performance vacuum pump, with separate vent lines for each vacuum position to prevent aerosol-caused cross-contamination. The module can easily be integrated into the Freedom EVO® or Genesis™-based workstations without the need for an external power supply. Straightforward operating and control of the device is enabled by Tecan's pipetting software packages, like Freedom EVOware®. Laboratory processes can easily be scaled up by using multiple Te-VacS systems in parallel on one workstation.

The Te-VacS can be used for all nucleic acid purification applications, such as:

- extraction of plasmid DNA
- purification of PCR products and cycle sequencing products
- purification of genomic DNA from blood, body fluids, cells, tissue, micro-organisms, food or plants
- isolation of viral nucleic acids from blood plasma or serum.

Its use, however, is not limited to nucleic acid processing, and the Te-VacS is also valuable for other applications:

- filtration and ultra-filtration
- extraction of drugs from blood plasma.

Not for use in clinical diagnostics.

- Hosts virtually any type of SPE cartridge from various suppliers.
- Compatible with vacuum-based reagent kits from numerous vendors.
- Automated exchange of tubes or plates allows automated multiple batch processes.

Specifications

Dimensions	vacuum block	50 mm (height) x 255 mm (width) x 155 mm (depth)
	waste bottle	530 mm (height) x 160 mm (width) x 160 mm (depth)
	Te-VacS tower	340 mm (height) x 700 mm (width) x 300 mm (depth)
Weight	vacuum block	3.3 kg
	waste bottle	2 kg
	Te-VacS tower	12 kg
Power supply		24 VDC max. 192 W
Software control		Freedom EVOware, Gemini™, FACTS™
Performance	capacity	two 96-well plates/cartridges
	vacuum	max. pressure difference 700 mbar; max. effective flow rate 22 l/min