



March 2022, ADD

BioTector Vacuum Sampler Specifications_R003

BioTector Vacuum Sampler Technical Specifications

TYPICAL TECHNICAL DATA

Enclosure:	Glass fiber reinforced polyester
Dimensions (HxWxD):	840mm x 540mm x 230mm (See Drawing Page 3)
Weight:	20KG
Noise level:	Below 80dB
Power Consumption:	24 W (1 Amp 24V DC)
Control Wire Specification:	Number of Cores = 6 cores, Current Rating minimum = 3 Amp, CSA (Cross Sectional Area minimum) = 0.5mm ² .

FEATURES IN DETAIL

Operation:	PLC with Membrane Keyboard Automatic no sample fill fault indication Direct control from the BioTector through the 6 core cable
Language Options:	English (Other languages are available upon request.)

OPTIONAL FEATURES

Cleaning:	Sample Chamber and Sample Line Backwash capability
Multi-stream:	Valves for up to 6 streams

CONSUMABLES

Cleaning Fluid:	Backwash water, warm water or specific cleaning fluid (for systems built with cleaning option only)
Service:	Typical 6 Monthly Intervals

SYSTEM PARAMETERS

Sample Container:	PVC-U
Sample Volume:	400 ml
Sample Valve:	Pinch valve with EMPP tubing
Vacuum Pump:	Teflon coated diaphragm with Kalrez valves
Vacuum Valves:	PVDF body with Kalrez valves
Sampler Sample Tubing:	Polyamide 11/12 (nylon) 3/8" OD x 1/4" ID
Cycle Time:	Controlled by BioTector



SAMPLE & ENVIRONMENTAL CONDITIONS

Vacuum Pressure:	800 mbar (standard)
Sample Lift:	6 meters (standard)
Sample Transport:	Maximum 40 meters with a 6 meters lift
Sample Fill Time:	Typically 25 seconds for 3 meters horizontal with a 3 meters lift Typically 120 seconds for 40 meters horizontal with a 6 meters lift
Sample Inlet Pressure:	Ambient (for applications with high sample pressure, alternative sampling systems are available)
Drain Pressure:	Ambient (for applications with high drain pressure, alternative systems are available)
Sample Inlet Temperature:	2°C – 60°C (36°F - 140°F)
Sample Particle Size:	Up to 2 mm, soft particulates
Ambient Temperature:	5°C – 40°C
Humidity:	5% - 85%, non-condensing

BioTector Analytical Systems Limited has a continuous research and development program. Specifications may therefore be changed without notice. For specification updates, please contact BioTector Analytical Systems Ltd.

Biotector Vacuum Sampler

It is recommended that a clear space of 150mm is allowed around the Vacuum Sampler.

