

VACUUM CHAMBER VC20

Portable Air Sampling Chamber Machine

The **VC20 Portable Vacuum Chamber Air Sampling Unit** is a compact, field-deployable device designed for collecting air samples efficiently and with minimal contamination. Purposed for environmental monitoring, industrial hygiene, emissions testing, and gas flux studies, the VC20 enables direct collection of gas samples (ambient air, stack emissions, soil gas, etc.) into sampling bags under controlled vacuum conditions.



Features at a Glance

Built-In Sample Pump

The Scentroid Vacuum Chamber is equipped with a powerful built-in sample pump capable of taking 12 lpm of sample even in negative pressure

Long Life

The battery can sustain the sampling pump for more than 12 hours of continuous operation

Viewing Window

Each vacuum chamber casing comes equipped with a large viewing window to see sample bag

Built-In Rechargeable Batteries

The Vacuum Chamber comes with high capacity batteries that can be recharged using wall or automotive power plugs

Multiple Models Available

Need a larger size? The larger models (VC25, VC50) both come with dual pumps for increased flow rate

LED Lighting

Features built-in LED lights to illuminate the sample bag to ease filling operations

The purge function creates pressure within the sampling chamber, forcing all the air inside the sample bag through the sample line. This function makes purging, priming and conditioning an easy, one-step process.

The Vacuum Chamber Sampler (bag sampling chamber) uses a built-in miniature pump to create a vacuum of more than 18" HG inside the sample box. The 12V rechargeable battery is capable of sustaining more than 75 samples with a single charge and can be recharged using a 110/220V outlet or a 12V car outlet

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How To Use

Connect Sampler

Open the vacuum chamber and connect the sample bag to the PTFE tube inside the chamber

Sampling Begins

Close the chamber and connect the external sample line to the sample collection device, or leave off to sample ambient air

Switch Halfway

Switch to the sample function to draw in the sample air. Stop when the sample is half full and switch to a purge routine to exhaust all lines

Continue to Fill Air

Switch to sample function again and fill the bag with sample air. Turn the unit off and open the case

Complete Sampling

Close the sample bag valve and remove it from the vacuum chamber sampler

Vacuum Chamber Sampler Applications

Acquire a sample from ambient air

Acquire a sample from flux chamber

Acquire a sample from the static hood

Acquire a sample from wind tunnel

Acquire a sample from another source that will not create condensation within the sample bag

Must Utilized Industries:

Food & Beverage

Wastewater Treatment Plant

General Manufacturing

Oil & Gas

Agriculture & Livestock

Landfill & Compost