



# VACUUM CHAMBERS

The Scentroid Vacuum Chambers are easy to use, portable, and cost-effective air sample collection devices. Vacuum chambers are used to pull samples directly without dilution from stack, ambient air, or other sampling devices such as flux chamber or wind tunnel. The Scentroid vacuum chambers come in multiple sizes to fit bags of up to 10L, 25L, and even 50L.

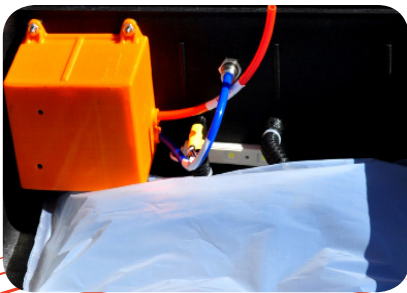
## ▶ CAPABILITIES

Scentroid Vacuum 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 charged

## ▶ EASE OF USE

The auto purge function creates a positive pressure inside the chamber forcing all the air inside the sample bag to exhaust through the sample line. This auto function makes purging, priming, and conditioning a one-step simple process.



## ▶ OPERATION

1. Open the Vacuum chamber.
2. Connect the Sample bag to the PTFE tube inside the vacuum chamber.
3. Close the vacuum chamber.
4. Connect the external sample line to the sample collection device (i.e probe or Flux chamber) for source sampling or leave off if sampling ambient air.
5. Switch to Sample function to draw in the sample air.
6. Stop when sample is half full and switch to purge routine to exhaust all the lines and the sample bag with source air.
7. Switch to Sample function again and fill the bag with sample air.
8. Turn unit off and open the case.
9. Close sample bag valve and remove it from the vacuum chamber.



## ▶ VACUUM CHAMBER APPLICATIONS

- Acquire sample from ambient air
- Acquire sample from flux chamber
- Acquire sample from static hood
- Acquire sample from wind tunnel
- Acquire sample from other source that will

## ▶ BUILT-IN SAMPLE PUMP

The Scentroid SB10 vacuum chamber is equipped with a powerful built-in variable flow rate sampling pump capable of taking up to 12 lpm of sample even in negative pressure conditions. The larger models (SB20, and SB50) come with dual pumps for increased flow rate.



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## ▶ EXTERNAL TRIGGER

Scentroid vacuum chambers come equipped with an external trigger that can easily connect to odotracker, Scentinal, GSM modem, or weather station to acquire a sample when the odour exceedance is detected, the wind directions changes, or when there is a compliant.

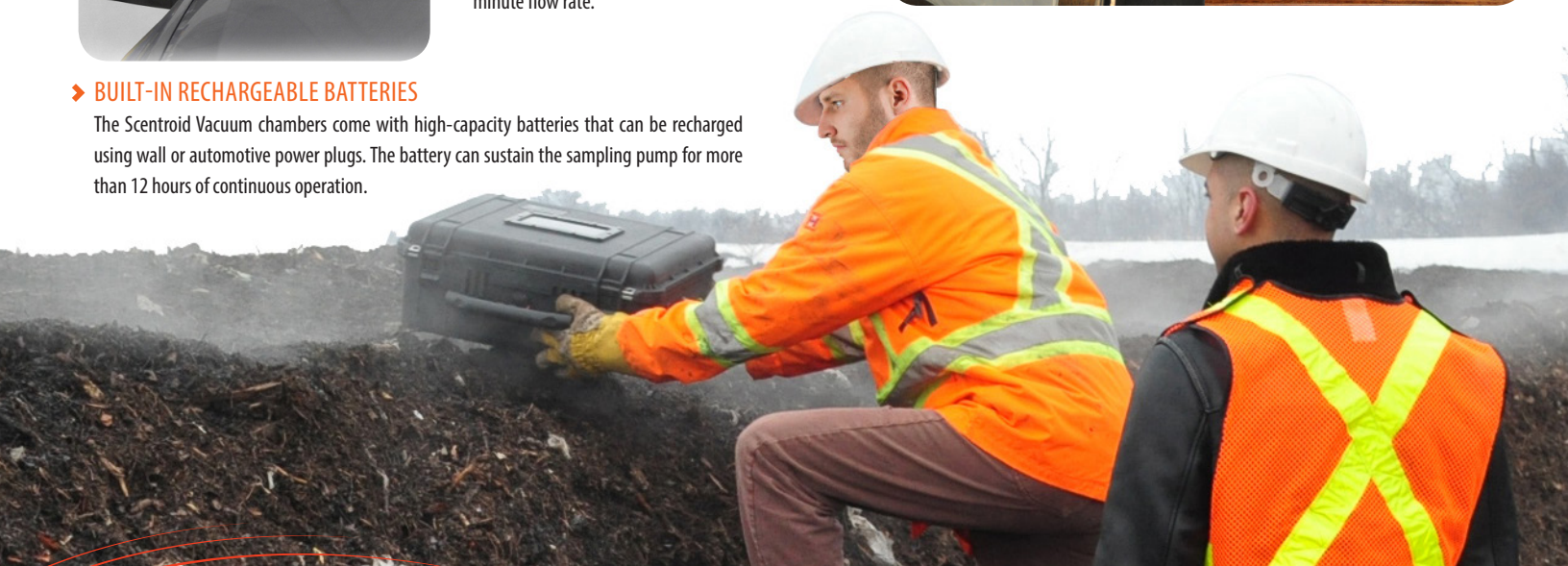
## ▶ ADJUSTABLE SAMPLING FLOW RATE

To achieve "time sampling" the user can vary the sampling rate via small external knob. The motor speed is adjusted to reach from 0.1 to 12 Liters per minute flow rate.



## ▶ BUILT-IN RECHARGEABLE BATTERIES

The Scentroid Vacuum chambers come with high-capacity batteries that can be recharged using wall or automotive power plugs. The battery can sustain the sampling pump for more than 12 hours of continuous operation.



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