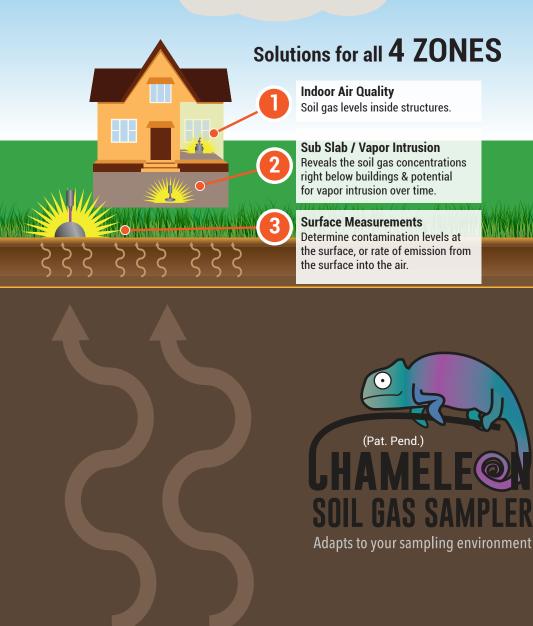


Vapor Intrusion Sampling Solutions





The All-In-One Soil Gas Sampling Solution



Monitoring Well For measuring soil gas concentrations anywhere in the Vadose Zone.

4

Vadose Zone

Capillary Zone

Ground Water Table

Advantages of Soil Gas Sampling with Canisters

Sampling soil gas into canisters provides significant advantages over the use of passive adsorbent samplers with regard to both maintaining the integrity of the sample in the field and ensuring that the best analytical technique is used in the laboratory.

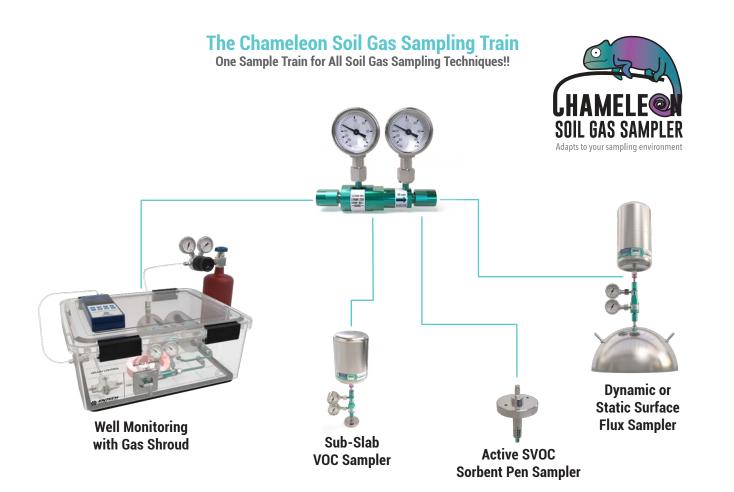
Canisters eliminate the need for pumps, batteries, and media selection, and the same sampling approach can be utilized for any gas concentration while being universal for all compounds. Furthermore, humidity and temperature concerns inherent with tube sampling do not affect canister accuracy.

Entech has a long history of engineering turn-key solutions specific to the environments being sampled. Designed with feedback from numerous sampling professionals, the Chameleon provides an all-in-one solution that is changing the way soil gas studies are conducted world-wide.

Sampling systems must be considered an extension of the laboratory.

The Chameleon improves the accuracy of soil gas sampling by applying basic principles of gas chromatography. Chameleon maximizes recovery while minimizing carryover to yield the most accurate soil gas sample train available.

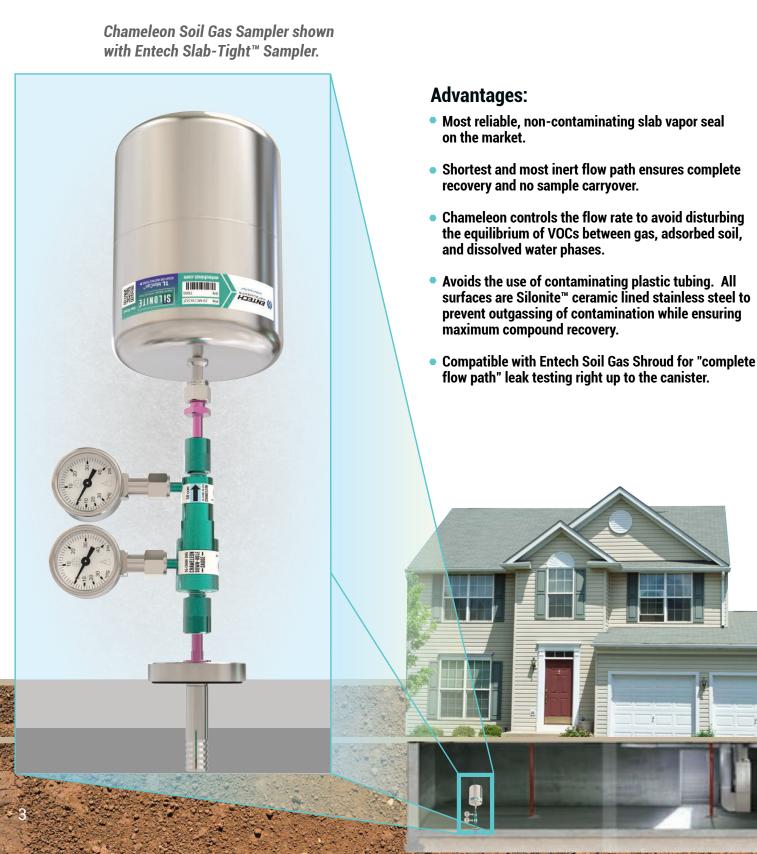
- Ensure all surfaces are inert (Entech Silonite[™] coated stainless steel).
- Minimize surface area and shorten path lengths to canister.
- Minimize leak prone connections by engineering and machining custom solutions.
- Eliminate absorption (no plastic tubing where possible).
- Prove system is leak-tight before delivery to field.
- Isolate the flow path from the outside world during transportation.



Sub-Slab & Vapor Intrusion Monitoring

No Grout. No Mess. No Contamination. Better Results.

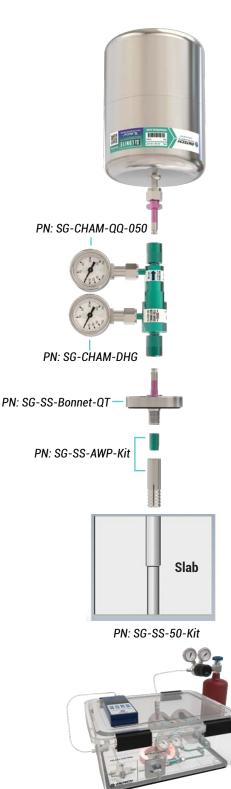
Monitor gases directly under the slab of buildings to determine the potential for intrusion into the indoor environment. A vacuum tight seal is made through the building's foundation, with a unique "triple seal" using two O-rings and a water dam that ensures that only gases from beneath the slab will be drawn into the sample train and canister. After sampling, the slab face sealing fitting is removed allowing a temporary plug to be installed.



Entech's Slab-Tight[™] Sub-Slab Sampler

Complete the Sampling with Chameleon & Silonite[™] MiniCan[™]

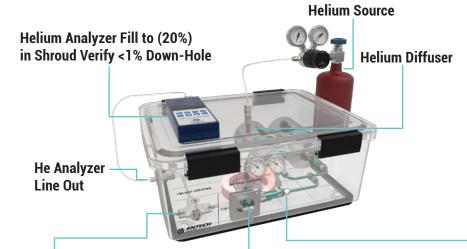
- Entech's unique Slab-Tight™ sub-slab sampler eliminates interferences created by grout and other slab sealing materials.
- Grout may contain contaminants that can positively bias the results.
- Added Down-hole moisture from the grout may affect the solid/liquid/gas phase equilibria.
- The Entech Slab-Tight[™] sub-slab sampler makes a mechanical connection and seal with no chance of contaminating the collected soil gas.
- Tracer Gas Shroud for butane or helium leak checking is available.



Description	Unit	Part #
Sub-Slab Vapor Intrusion Canister Sampling Kit (50cc/min) (600cc, 1L, or 1.4L Cans sold separately)	EA	SG-SS-50-Kit
Slab Anchor, Wedge, and Plug Kit	EA	SG-SS-AWP-Kit
Tool to expand anchor into the concrete	EA	SG-SS-Expander
Face-sealing Bonnet with QT Fitting	EA	SG-SS-Bonnet-QT
Bonnet Wrench - Tightens and releases Bonnet to concrete	EA	SG-SS-Bonnet-Wrench
50cc/min Chameleon with FQT on Inlet & Outlet. Includes down-hole gauge for measuring vacuum below ground soil	EA	SG-CHAM-QQ-050
50cc plastic preflush syringe	EA	07-20050
16 Gauge Sub-Slab Dispensing Needle	5pk	07-20018

Individual Parts	Unit	Part #
Slab Anchor & Plug Kit - Not reuseable. One needed per installation	EA	SG-SS-AWP-Kit
Shroud Foam Sealing Ring	EA	SG-SHR-RNG
Dual Canister Adapter w/ 2 Female Micro-QT [™] Valves	EA	39-99014QT
600mL MiniCan with Micro-QT [™] Valve	EA	29-MC600QT
1L Silonite MiniCan	EA	29-MC10LQT
Helium Analyzer (0.1-100%)	EA	SG-He-Analyzer
Soil Gas Drill Bit Kit 1/2" and 3/8"	EA	SG-SS-DRILL-Kit
Tracer Gas Shroud for Helium	EA	SG-He-Shroud
16 Gauge Sub-Slab Dispensing Needle	5pk	07-20018
10cc/min Chameleon Shroud Sample Train. Includes 3 way valve, magnetic latch, & down-hole gauge for measuring vacuum below ground soil	EA	SG-CHAM-TC-010-S
50cc/min Chameleon Shroud Sample Train. Includes 3 way valve, magnetic latch, & down-hole gauge for measuring vacuum below ground soil	EA	SG-CHAM-TC-050-S
100cc/min Chameleon Shroud Sample Train. Includes 3 way valve, magnetic latch, & down-hole gauge for measuring vacuum below ground soil	EA	SG-CHAM-TC-100-S
150cc/min Chameleon Shroud Sample Train. Includes 3 way valve, magnetic latch, & down-hole gauge for measuring vacuum below ground soil	EA	SG-CHAM-TC-150-S
200cc/min Chameleon Shroud Sample Train. Includes 3 way valve, magnetic latch, & down-hole gauge for measuring vacuum below ground soil	EA	SG-CHAM-TC-200-S

Tracer Gas Shroud For Vapor Intrusion



Purge/Helium Monitor Select Valve

- 1. Pre-Purge/Helium in Soil Gas Test
- 2. Off
- **3. Helium Level in Shroud Test**

Soil Gas Select Valve

1. Pre-Purge/Helium Gas Test

2. Off

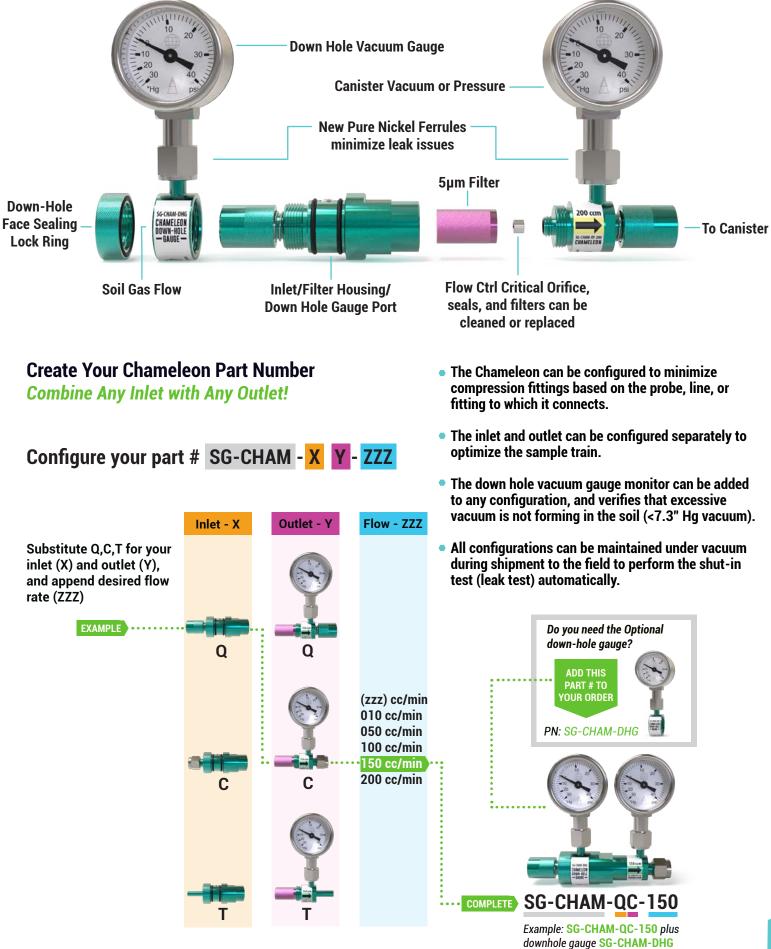
3. Sample

Chameleon, with 1/4" tube inlet and Compression outlet 50cc/min for Accu-Probe and Slab-Tight Samplers, 100 to 200cc/min for Permanent Wells



Description	Unit	Part #
Sub-Slab Vapor Intrusion Canister Sampling Kit (50cc/min) w/ Tracer Gas Shroud (600cc, 1L, or 1.4L Cans sold separately)	EA	SG-SS-SHR-50-Kit
50cc/min Chameleon Shroud Sample Train. Includes 3 way valve, magnetic latch, & down-hole gauge for measuring vacuum below ground soil	EA	SG-CHAM-TC-050-S
Slab Anchor, Wedge, and Plug Kit	EA	SG-SS-AWP-Kit
Tool to expand anchor into the concrete	EA	SG-SS-Expander
Face-sealing Bonnet with QT Fitting	EA	SG-SS-Bonnet-QT
Bonnet Wrench - Tightens and releases Bonnet to concrete	EA	SG-SS-Bonnet-Wrench
50cc plastic preflush syringe	EA	07-20050
Tracer Gas Shroud for Helium	EA	SG-He-Shroud
$^{1\!/\!\!s''}$ Silonite Line from Probe to 3-Way, w/ FMQT & $^{1\!/\!\!s''}$ to $^{1\!/\!\!s''}$ Tube Adapters	EA	SG-SHR-APVI
16 Gauge Sub-Slab Dispensing Needle	5pk	07-20018

Easy Maintenance and Replacement of All Components







Learn more about us:



facebook.com/entechinst

entechinst.com



twitter.com/entechinst



linkedin.com/company/entech-instruments-inc

Entech Instruments 2207 Agate Court Simi Valley, CA 93065 Phone: 805-527-5939

Vapor Intrusion Sampling –210322 - 9.0

© 2021 Entech Instruments. Silonite[™], Chameleon[™], Slab-Tight[™], Micro-QT, Sorbent Pen[™], and MiniCan[™] are trademarks of Entech Instruments. All Rights Reserved. Sorbent Pens (patent pending) & Chameleon (patent pending)