



# **GETXENT RASCO**

## USER GUIDE

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## INTRODUCTION

The Getxent Remote Air Sampling Canine Olfaction system - Getxent RASCO - is a unique affordable solution to collect and concentrate volatile from huge volumes.

The Getxent RASCO system is based on the combination of the Getxent tube and a specially designed accessory to plug on a Dyson or a Xiaomi vacuum cleaner. The patented technology of the Getxent tube (WO2018206808) is based on an innovative polymer able to capture all the molecules constituting an odor. Once captured, the Getxent tube releases them accurately. Thanks to the Getxent RASCO accessory (patent pending), the Getxent tube can now be plugged on a Dyson or a Xiaomi vacuum cleaner to collect and concentrate the odor in huge volumes such as rooms, freight containers, cars, trucks, and planes. The process only takes few minutes. The presence of the odor can be checked immediately or later by trained dogs.

The Getxent RASCO accessory has been especially designed to optimize the air flow around the Getxent tubes and to be compatible with one of the most performing portable vacuum cleaners on the market. Only few minutes are required to collect the odors for huge volumes. The accessory is made of 316L stainless steel grade, commonly used for medical devices. It is thus easy to clean and durable.

We have chosen the Dyson and the Xiaomi vacuum cleaners that are light, portable, long-lasting, affordable, and available anywhere in the world.

Getxent RASCO is used throughout the world in the areas of defense, health and environment to detect prohibited goods in air and sea freight, search for bacteria or bedbugs in rooms, and much more.

# PROTOCOL

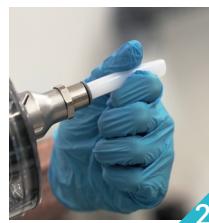
Always wear gloves for each step

## A. Sampling

1. Open the Getxent RASCO wallet and take the Getxent RASCO accessory out.



2. If necessary, plug the plastic tubing in the push connector.



3. Open the pouch containing non-impregnated Getxent tubes and pick-up a Getxent tube with pliers.



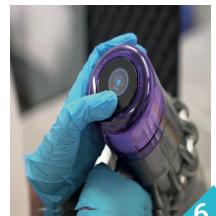
4. With pliers, slide the Getxent tube in the Getxent RASCO accessory until you feel it blocked inside.



5. Plug the Getxent RASCO accessory on the Dyson vacuum cleaner; a click will make sure it is fastened correctly.



6. Select "Medium" vacuum speed on the vacuum cleaner



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7. Press the trigger on the Dyson vacuum cleaner to start the collection of odors and keep on pressing during the time required for the sampling (see the recommendations about sampling duration).



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8. When the sampling is done, press the puller on the Getxent RASCO accessory while pulling it until it slides out of the vacuum cleaner.



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9. With pliers, remove the impregnated Getxent tube and store it in a clean, small volume, odor-free and tightly closable container.



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10. Clean the plastic tubing and the Getxent RASCO device with ethanol and let it dry before re-packing in the Getxent RASCO wallet.



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## B. Detection

1. Take the impregnated Getxent tube to be detected from the storage container with pliers.



1

2. Place it in your detection set-up (line-up, etc.).



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3. After the detection, dispose the Getxent tube and the storage container.

## RECOMMENDATIONS

**Storage conditions:** between -30°C and +50°C, clean and dry. Our best recommendation is to store the Getxent RASCO accessory in the wallet supplied, in a clean and dry place at room temperature.

**Duration:** The sampling duration depends on the odor concentration and the volume of the area to be scanned. It follows the rule of thumb below:

Sampling duration (in seconds) = detection coefficient K x volume of the area (in m<sup>3</sup>) / amount of odor (in kg)

The detection coefficient depends on the odor, the dog sensitivity or the method and equipment used for GC-MS, typically, K=5-10. For example, a sea freight container of 32m<sup>3</sup> containing 1kg of explosives and considering K=7,5 must be sampled during 240 seconds or 4 minutes.

**Manipulation:** Always wear gloves when handling Getxent RASCO accessory and Getxent tubes. Before impregnation: ideally manipulate tubes in an odor-free area with metal pliers and disposable gloves. Our best recommendation is to use powder free nitrile gloves. Always minimize the time spent handling the Getxent tubes and its exposure to the environment.

**Cleaning:** Use volatile organic solvent to clean the Getxent RASCO accessory and let it dry. Our best recommendation is to use ethanol 99%. The Getxent RASCO accessory can be washed with tap water to remove dust, mud or any particles then dried. Make sure the accessory is dry when re-packed. Avoid the use of acids and bases that could damage the accessory. Avoid the use of soaps or cleaning solutions as they contain chemicals and fragrances that will pollute the accessory and interfere with the analysis.

**Reuse:** Getxent RASCO accessory can be reused after proper cleaning and drying. Getxent tubes cannot be reused.

**Elimination:** Dispose Getxent tubes and packaging in the trash. If Getxent tubes or packaging are contaminated with a substance requiring specific elimination conditions, comply with the legal requirements for disposal of the contaminant.

**Compatible models:** Dyson V11 and V15, Xiaomi Mi Vacuum Cleaner G10. For recommendations about the Dyson or the Xiaomi vacuum cleaner, please refer to the user guide edited by the brands.

# Any questions ?

+41 79 664 59 08

[contact@getxent.com](mailto:contact@getxent.com)



[www.getxent.com](http://www.getxent.com)