

Sample Preparation Product

FM4: Air Sampler for PFAS

Overview

Air Sampler for PFAS(FM4) is new Low Volume Air Sampler which you can analyze PFAS in the particle and gas in one sampling. You can achieve comprehensive analysis in one sampling because each stage of it has optimized material and configuration for each target substance.

What's PFAS

PFAS (per- and polyfluoroalkyl substances) are groups of synthetic fluorinated chemicals.

They are extensively used in various industrial and consumer products because of their extraordinary thermal stability, chemical stability, surfactant properties, etc..

However, some substances in PFAS are regulated by the Stockholm Convention (POPs Convention). There are thousands of types of PFAS in the environment, and there is still little data in the ambient air, so it is necessary to urgently clarify the actual situation.



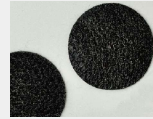
Product Appearance (FM4)



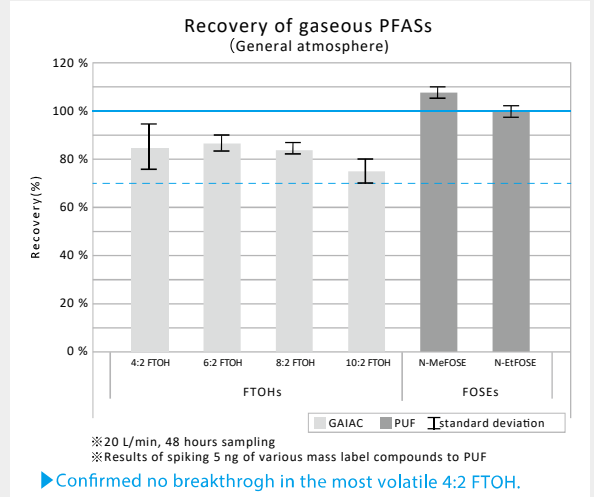
Cascade Impactor
Particulate PFAS



Polyurethan Foam (PUF)
Particulate PFAS
Gaseous PFAS



Activated Carbon Fiber Disk (GAIAC)
Gaseous PFAS



Feature

Comprehensive Sampling Device

Both a particulate substance and a gaseous substance can be collected simultaneously with one compact sampler. Since it is possible to evaluate the collection amount for each material, comprehensive evaluation is possible.

Capable of Collecting Gaseous PFAS (FTOH, etc.)

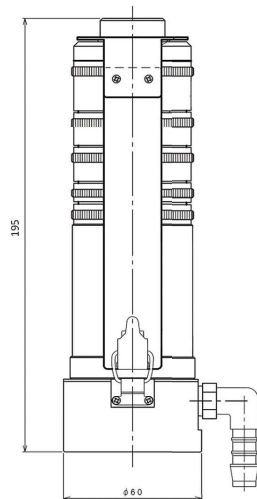
The collection of gaseous PFASs in the air, which was difficult to collect, is now possible with the newly activated carbon desorption material.

Excellent Recovery

We have achieved recovery rates for various PFAS

Compact and Portable

A lightweight and compact air sampler that is easy to carry and does not take up much floor space.



Quartz Fiber Filter (QFF)
(31 mm)

Polyurethan Foam (PUF)

Activated Carbon Fiber Disk (GAIAC)
× 2

Quartz Fiber Filter (QFF)
(47 mm)

Collect Particles
Cascade Impactor
1st stage : > 10 μm
2nd stage : 10-2.5 μm
3rd stage : 2.5-1.0 μm

Collect Particles and Gaseous PFAS

Collect Gaseous PFAS

Sampler

Cat.No.	Item	Qty.	Specifications
1050-10015	FM4	1 set	Material : Aluminium (anodizing treatment) Dimension : 60 mm x 195 mm Weight : approx. 900 g Connection : Rc 1/4"

Consumables

Cat.No.	Item	Qty.	Specificatiois
1050-10022	Quartz Fiber Filter QFF31	100 pcs	Impactor section 31 mm
1050-10023	Quartz Fiber Filter QFF47	100 pcs	Back up 47 mm
1050-10021	Polyurethane Foam PUF4750	10 pcs	47 mm x 50 mm
1050-10020	Active Carbon Fiber Disk (GAIAC FF047)	20 pcs / (pk x 100pk)	47 mm x 2 mm

When using it outside, put it in a place rain cannot enter inside.
This product does not include a sampling pump.

GL Sciences Inc. USA

4733 Torrance Blvd. Suite 255
Torrance, CA 90503, USA
Tel +1 310-265-4424
Fax +1 310-265-4425
Email info@glsciencesinc.com
Web www.glsciencesinc.com

GL Sciences B.V.

Dillenburgstraat 7C
5652 AM Eindhoven The
Netherlands
Tel +31 (0)40 254 95 31
Email info@glsciences.eu
Web www.glsciences.eu

GL Sciences (Shanghai) Ltd.

Tower B, Room 2003, Far East
International Plaza, NO.317 Xianxia Road,
Changning District. Shanghai, China P.C.
200051
Tel +86 (0)21-6278-2272
Email contact@glsciences.com.cn
Web www.glsciences.com.cn

GL Sciences Inc.

22-1 Nishishinjuku 6-chome, Shinjuku-ku
Tokyo 163-1130, Japan
Tel +81-(0)3-5323-6620
E-mail world@glsc.co.jp
Web www.glsciences.com



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