

INSTRUCTIONS FOR USE

SKC VersaTrap Spore Trap Cassette

Choosing the flow rate and sampling time, connecting the cassette to the pump and sending the samples to the laboratory with the SKC VersaTrap spore trap cassette, catalogue numbers 225-9820 and 225-9821.

AMTC-IN-0067

About this document

The SKC VersaTrap is a single-use cassette for sampling mould spores and other particles from the air. A sample pump draws air through it, and the particles stick to a coated glass slide inside. The laboratory then counts and identifies them under the microscope.

These instructions explain how to take a sample with it. Before use (p. 6) helps you choose the flow rate and the sampling time; Procedure (p. 7) gives the steps, from calibrating the pump to shipping the cassettes. How the laboratory analyses the sample, and what the result means, is a matter for the laboratory.

Keep these instructions for the lifetime of the product. The current revision is on the product page at analyt-mtc.com.

How these instructions mark information

NOTICE

Practices not related to personal injury — damage to the product, the process or the sample.

Note
Information that helps understanding; never a hazard.

Tip
A shortcut or recommendation; never a hazard.

Document information

Title	SKC VersaTrap Spore Trap Cassette — Instructions for use
Document number	AMTC-IN-0067
Revision	Rev. 2 — October 2026
Applies to	SKC VersaTrap spore trap cassette, 225-9820 and 225-9821
Language	English
Manufacturer	SKC Inc.

Revision history

Rev.	Date	Change
2	October 2026	Quality programme: new document type, number and identity pages.
1	October 2026	First issue.

SKC, VersaTrap, SureSeal, QuickTake and Tygon are trademarks of their owners. Information in these instructions is subject to change without notice. © 2026 ANALYT-MTC Messtechnik GmbH. All rights reserved.

Contents

1 **Safety** 4
Intended use 4
Safety messages 4

2 **Product and supplied items** 5
The cassette 5

3 **Before use** 6
Choosing the flow rate 6
Choosing the sampling time 6

4 **Procedure** 7
Steps 7

5 **Ordering information** 9

6 **Service and contacts** 10
Disposal 10

CHAPTER 1

Safety

Read the safety message in this chapter before you sample. It appears again in the chapter where its step is described.

Intended use

The SKC VersaTrap spore trap cassette, 225-9820 or 225-9821, is a single-use cassette for sampling mould spores and other particles from the air with a sample pump. One cassette takes one sample, which a laboratory then analyses.

Safety messages

NOTICE

Limited shelf life. The cassettes do not keep indefinitely, and a cassette past its shelf life can give an invalid result. Order them in quantities you will use.

NOTICE

Sample for less time at 30 L/min. At the highest flow rate the slide overloads quickly. Keep to the shorter times in the 30 L/min column.

CHAPTER 2

Product and supplied items

The cassette

Air enters the 37 mm cassette through a narrow slit. The slit directs the particles onto a clear glass slide with a sticky coating, where they collect in a sharply defined rectangle. The slide sits in a SureSeal cassette that does not leak, and each cassette carries its own serial number, so every sample can be traced. Sealing tabs close the inlet and the outlet until you sample. The sample is used to count mould spores and identify their genus; laboratories analyse it to ASTM D7391.



Figure 2-1. The VersaTrap spore trap cassettes.

NOTICE

Limited shelf life. The cassettes do not keep indefinitely, and a cassette past its shelf life can give an invalid result. Order them in quantities you will use.

CHAPTER 3

Before use

Choosing the flow rate

Table 3-1. Flow rate and 50 % cut-point

Flow rate (L/min)	50 % cut-point (µm)
30	1.5
25	1.7
20	1.9
15	**2.3**
10	2.8
5	3.9

The flow rate sets the 50 % cut-point: the particle size the cassette collects with an efficiency of 50 %. The higher the flow rate, the smaller the cut-point. Pick the flow rate whose cut-point suits the particles you want to catch (Table 3-1 (p. 6)).

Tip

Use 15 L/min unless you have a reason not to. It is the recommended flow rate for the VersaTrap.

Choosing the sampling time

The dustier the air, the shorter the sample: too much dust overloads the slide (Table 3-2 (p. 6)).

Table 3-2. Recommended sampling time

Conditions where you sample	At 15 L/min	At 30 L/min
Clean office, or outdoors; no visible dust	10 min	5 min
Indoors, with a lot of activity by people	5 min	2 min
Indoors, during drywall renovation, or with heavy industrial dust	1 min	½ min

NOTICE

Sample for less time at 30 L/min. At the highest flow rate the slide overloads quickly. Keep to the shorter times in the 30 L/min column.

CHAPTER 4

Procedure

One cassette takes one sample. Keep its sealing tabs: they close the cassette again for the journey to the laboratory.

Steps

1. Choose the flow rate (see Choosing the flow rate (p. 6)).

   > **Note**
   > **Calibrate without the cassette.** The VersaTrap adds no significant back pressure, so you do not need a cassette in line while you calibrate the flow.

2. Calibrate the pump to this flow rate.
3. Take the sealing tabs off the cassette inlet and outlet and keep them.
4. Connect the cassette outlet to the pump inlet in one of two ways (Figure 4-1 (p. 8)):
   - **Directly on the pump.** For a pump built to carry the cassette, such as the SKC QuickTake 30 (Cat. No. 228-9530A), which comes with the cassette adapter: fit the rigid end of the adapter onto the pump inlet, then push the round fitting on the cassette outlet into the bowl end of the adapter, so that it seals evenly all round.
   - **With tubing.** Connect the round fitting on the cassette outlet to the pump inlet with tubing of 1/2 in internal diameter, for example 225-1353.

   NOTICE

   Sample for less time at 30 L/min. At the highest flow rate the slide overloads quickly. Keep to the shorter times in the 30 L/min column.

5. Switch the pump on and sample for the time you chose (see Choosing the sampling time (p. 6)).
6. Note the cassette's serial number with the sampling location.
7. When the time is up, switch the pump off.
8. Take the cassette off.
9. Close the inlet and the outlet again with the sealing tabs.
10. Pack the cassettes in a corrugated cardboard box, together with the outdoor background samples, the samples from areas without complaints, and the blanks.
11. Send the box to the laboratory for analysis.

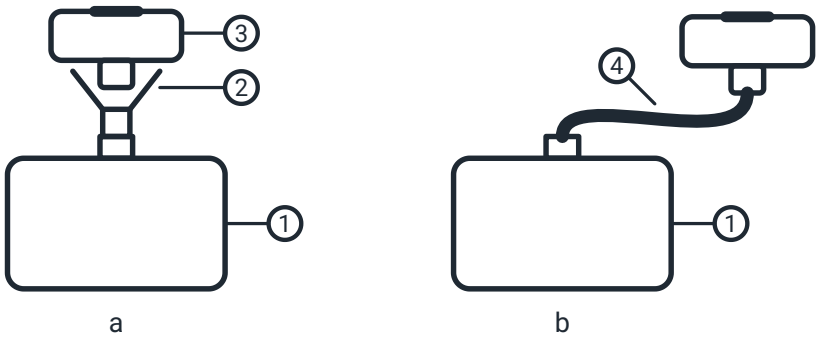


Figure 4-1. Connecting the cassette. (a) Directly on the pump. (b) With tubing. (1) Sample pump. (2) Cassette adapter: rigid end on the pump inlet, cassette outlet in the bowl end. (3) VersaTrap cassette, slit inlet on top. (4) Tubing, 1/2 in ID.

CHAPTER 5

Ordering information

Order from Analyt-MTC with the order codes.

Description	Pack	Order code
SKC VersaTrap spore trap cassette, 37 mm	10	225-9820
SKC VersaTrap spore trap cassette, 37 mm	50	225-9821
Tygon tubing, 1/2 in ID, 5/8 in OD; fits over the cassette outlet	3 m	225-1353

CHAPTER 6

Service and contacts

Ordering and support

ANALYT-MTC Messtechnik GmbH

German Headquarters

Klosterrunsstraße 18, 79379 Müllheim
Germany

+49 7631 5545

info@analyt-mtc.de

French Subsidiary

175 Avenue d'Alsace, 68000 Colmar
France

+33 3 89 41 47 78

info@analyt-mtc.fr

www.analyt-mtc.com

Ordering and questions

Analyt-MTC supplies the VersaTrap cassettes and their accessories and answers your questions about using them. Order with the catalogue numbers in Ordering information (p. 9): 225-9820 (pack of 10) or 225-9821 (pack of 50). Warranty and returns follow the terms of Analyt-MTC.

Order further cassettes and tubing from Analyt-MTC with the catalogue numbers in Ordering information (p. 9). Analyt-MTC also answers questions about the VersaTrap and handles complaints; warranty and returns follow its terms. Contact details are in this chapter and on the back cover.

Disposal

Dispose of used cassettes and their packaging under local regulations.

ANALYT-MTC Messtechnik GmbH

Sales, service and calibration

German Headquarters
Klosterrunsstraße 18, 79379 Müllheim
Germany
+49 7631 5545
info@analyt-mtc.de

French Subsidiary
175 Avenue d'Alsace, 68000 Colmar
France
+33 3 89 41 47 78
info@analyt-mtc.fr

www.analyt-mtc.com

AMTC-IN-0067 · Rev. 2 · 2026-10

© 2026 ANALYT-MTC Messtechnik GmbH. All rights reserved. Subject to technical changes without notice.