Protocol sheet

Building:	MKLTST	Room:	MKLTST_R02	Equipment No.:	Testequipment
Measurement point:	MP-Filter01			Filter class:	H14
Measure. point group:	Demo MPG Filter Scan-/Leaktest				
Description:	Demo measurement point group for showcasing scan- and leaktests				
Start measuring:	11 Apr 2025 16:49:50 UTC+02:00				

Measuring device used:

Particle measuring device	Name	Flow	Next calibration
Raw air	SIM-SEQ1	472.000 [cm³/s]	30 Dec 2050
Clean air	SIM-SEQ2	472.000 [cm³/s]	30 Dec 2050

Differential pressure measuring device	Next calibration
DPMD01	02 Apr 2029

Dilution stage	Dilution factor	Next calibration
DS271	100	01 Apr 2026

Probe	Measuring notebook
Demo Probe 01	VMWIN11MOQLERO

Filter test measurement results

Filter type	Visual Inspection OK	Differential pressure [Pa]			Scan / Leak test ok
		Actual	Max.	Result	
supply air filter	ok	95.0	500.0	ok	ok

Overall result	O

Measured by: **John, Doe (jdoe)**

Participants: n.d. n.d.

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Dynamic measurement

Probe geometry:

Effective width [cm]:	2.55
Height [cm]:	n.d.
Diameter [cm]:	3.60

Parameter scantest

Scan velocity [cm/s]:	5.0
Track overlap [cm]:	1.0
N_a [1]:	0
N_p [1]:	4
P_L [%]:	0.01
Flow raw air [m³/s]:	0.00047200
Minimum raw air concentration [1/m³]:	166,822,368
Scan time calculated [min]:	6

Requirements scantest

Penetration rate filter	0.00500

Evaluation scantest

Number of possible leaks:	1
Max. penetration rate:	0.00037

Measurement results dynamic measurement

No.	Raw air				Clean air			Penetration rate [%]
	Start measuring	Measurement duration [s]	Particle ≥ 0.3µm [1/m³]	Requirements fulfilled *	Start measuring	Measurement duration [s]	Particle ≥ 0.3µm	
1	11 Apr 2025 16:49:50 UTC+02:00	60	298,046,500	Yes	11 Apr 2025 16:49:50 UTC+02:00	60	1,088	0.00037
2	11 Apr 2025 16:50:50 UTC+02:00	60	302,945,100	Yes	11 Apr 2025 16:50:50 UTC+02:00	60	1,103	0.00036
3	11 Apr 2025 16:51:50 UTC+02:00	60	310,262,300	Yes	11 Apr 2025 16:51:50 UTC+02:00	60	872	0.00028
4	11 Apr 2025 16:52:50 UTC+02:00	60	308,674,700	Yes	11 Apr 2025 16:52:50 UTC+02:00	60	645	0.00021

Protocol sheet

Building: MKLTST Room: MKLTST_R02 Equipment No.: Testequipment

Measurement point: MP-Filter01 Filter class: H14

Measure. point group: Demo MPG Filter Scan-/Leaktest

Description: Demo measurement point group for showcasing scan- and leaktests

Start measuring: 11 Apr 2025 16:49:50 UTC+02:00

5	11 Apr 2025 16:53:50 UTC+02:00	60	300,138,900	Yes	11 Apr 2025 16:53:50 UTC+02:00	60	1,022	0.00034
6	11 Apr 2025 16:54:50 UTC+02:00	60	302,996,700	Yes	11 Apr 2025 16:54:50 UTC+02:00	60	713	0.00024
Summary		360	n.d.	Yes	n.d.	360	n.d.	n.d.

* Particle concentration ≥ 0.3µm [1/m³] > Minimum raw air concentration [1/m³]

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Static measurement

Possible leaks

No.	x-coordinate [cm]	y-coordinate [cm]
1	75.0	105.0

Measurement results static measurement

Requirements leaktest

Penetration rate filter 0.00500

Max. allowable total penetration [%]: 0.01

Evaluation leaktest

Max. penetration rate: 0.00015

			Raw air		Clean air			Result
Leak No.	Sample No.	Start measuring	Measurement duration [s]	Particle ≥ 0,3µm [1/m³]	Measurement duration [s]	Acceptance particle count N_{ar} :	Counted particles ≥ 0,3µm [1]	OCRN
1	1	11 Apr 2025 16:58:34 UTC+02:00	60	278,566,200	60	732	415	O
1	2	11 Apr 2025 16:59:34 UTC+02:00	60	293,671,500	60	774	239	O
1	3	11 Apr 2025 17:00:34 UTC+02:00	60	285,922,700	60	752	378	O