

Institut für Energie- und Umwelttechnik e.V. (IUTA)

Air Quality & Filtration
Bliersheimer Straße 58 – 60
47229 Duisburg
Germany



- IUTA-CERTIFICATE -

Validation of compressed air filters in the style of ISO 12500-3:2009^{1) 2)3)}

(Filters for compressed air – Test methods – Particulates)

- 1) According to the state of the art in particle measurement technology via online optical aerosol spectrometry particle sizes < 0.14 µm cannot be detected under pressure.
- 2) Particle size range: (0.19 – 6.04) µm
- 3) Nominal flow unknown.

Customer: ultra.air gmbh, Im Hülsenfeld 13, 40721 Hilden, Germany

Tested product: 3 cartridges of filter type “FF 04/10 121220”

Manufacturer: Ultrafilter GmbH, Hilden, Germany

IUTA test report: UN2-150930-T55969.00-068b revision 1

Test parameters:										
Inlet pressure		7 bar (e) [8 bar (a)]								
Air flow		50 Nm ³ /h								
Flow direction		from inside to outside								
Test aerosol		DEHS								
Particle size range		0.19 – 6.04 µm								
Aerosol Spectrometer		PCS 2100 (Palas GmbH)								
Test results										
Particle-size range [µm]	lower upper	0.19 0.24	0.24 0.36	0.36 0.52	0.52 0.81	0.81 1.15	1.15 1.78	1.78 2.74	2.74 3.92	3.92 6.04
Average efficiency* [%]		100%	100%	100%	100%	100%	100%	100%	99.9%	98.3%

* Averages were calculated from the data shown in the test report mean values of 3 tests.

The cartridges were mounted in filter housing model “AG 0009”

Duisburg, 29 January 2016

Head of Department

Managing Director