



Fraunhofer

TESTED[®] DEVICE

Trox GmbH
MFPCR series H14 Filter
Report No. TR 1910-1144

Single product
Outgassing Behavior
VOC/SVOC

Qualification Certificate

This is to certify that the product mentioned above, provided by

Trox GmbH
Neukirchen-Vluyn, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number TR 1910-1144.

The outgassing behavior of the MFPCR series H14 Filter at the stated temperatures was investigated according to ISO 14644-15. Based on the outgassing rates determined for the specific units, the following equipment classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER _u ¹⁾ 23°C [g/unit · s]	ISO ACC _e Class (x) based on 23° C
VOC	< 4.5 x 10 ⁻¹⁰	< -9.3
SVOC	4.7 x 10 ⁻¹¹	-10.3
Amines	²⁾ not detectable	--
Organophosphates	²⁾ not detectable	--
Siloxanes	²⁾ not detectable	--
Phthalates	²⁾ not detectable	--

¹⁾SER_u: unit-specific emission rate detection limit for VOC: 4.5 x 10⁻¹⁰

²⁾SER_e: unit-specific emission rate detection limit for the substance groups amines, organophosphates, siloxanes and phthalates: 2.8 x 10⁻¹²

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Stuttgart, November 6, 2019
Place, date of first document issued

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Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under www.tested-device.com.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.