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RANGE OF SERVICES:

AIR QUALITY PROTECTION:

- air quality protection documentations
- emission measurements
- charging for environment using

WATER SOURCE PROTECTION:

- water management documentations
- water and sewage analyses

NOISE PROTECTION:

- noise level measurements
- noise protection documentations
- technical projects of noise protection installations

WORK ENVIRONMENT:

- environment measurements (gas concentration, dust concentration, noise and vibration, microclimate and lightning)

VENTILATION:

- ventilation effectiveness measurement
- technical projects of ventilation systems

GEOLOGICAL AND GEOTECHNICAL DOCUMENTATIONS

WASTE MANAGEMENT DOCUMENTATIONS

Laboratory of Environmental Acoustics and
Clean Rooms Qualification, and Ventilation
ul. Południowa 5, 62-006 Kobylnica

REPORT ON THE MEASUREMENT OF FILTRATION EFFICIENCY NR ZO/136/04/2021-2(en)

for

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Made:

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Kierownik Pracowni
Akustyki Środowiska

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Kobylnica, 17 may 2021 r.

- report include 3 sites -

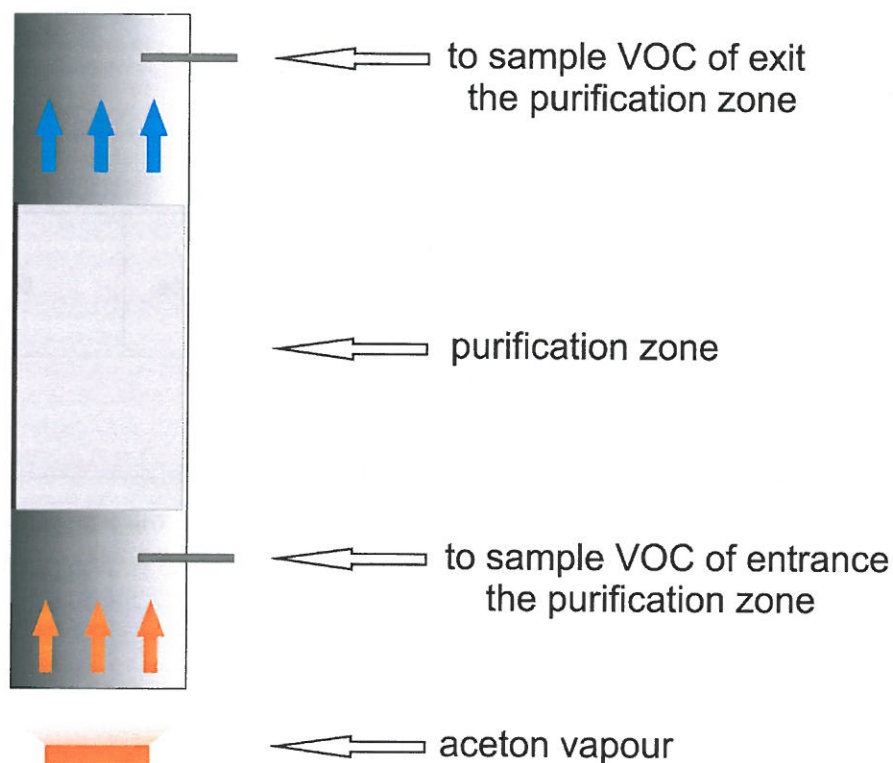
1. Purpose and scope.

The subject of the contract was to estimate the effectiveness of the LUMEELAMP TripleForce RX and LUMEELAMP TripleForce RX100 devices based on the results of VOC concentration measurements.

2. Methodology.

Efficiency of reducing volatile organic compounds (VOC) estimated based on measurements of acetone vapor concentration before purification zone and directly behind the purification zone. The purification zone is a special TiO₂ coating and UV-C radiation that triggers the process photocatalytic ionisation process. Measurements were made with AWE hydrocarbon meters at two different airflow settings.

Below is a diagram of the measurement system for measuring the VOC reduction.



Subject of test

- Measuring the VOC reduction
1. LUMEELAMP TripleForce RX
 3. LUMEELAMP TripleForce RX100

REPORT ON THE MEASUREMENT OF FILTRATION EFFICIENCY

Equipment	LUMEELAMP TripleForce RX	measurement data	5.05.2021
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Subject: Measuring the VOC reduction.

Efficiency of reducing volatile organic compounds: LUMEELAMP TripleForce RX,			
Airflow setting	concentration of VOC upstream of the filter [mg/m ³]	concentration of VOC downstream of the filter [mg/m ³]	Efficiency of reducing [%]
TURBO	1 497	417	72
SILENT	1 103	385	65

Equipment	LUMEELAMP TripleForce RX100	measurement data	5.05.2021
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Subject: Measuring the VOC reduction

Efficiency of reducing volatile organic compounds: LUMEELAMP TripleForce RX100,			
Airflow setting	concentration of VOC upstream of the filter [mg/m ³]	concentration of VOC downstream of the filter [mg/m ³]	Efficiency of reducing [%]
TURBO	766	385	50
SILENT	554	354	36