

SolvElectric Kft.

Analysis of workplace air

Purpose of the analysis: Testing the emissions of volatile organic compounds, inert dust and ozone from the SolveAir Uni type air purification system developed by SolvElectric Kft.

The samples were analysed by: Bálint Analitika Kft.
1116 Budapest, Fehérvári út 144.

Air purification equipment tested: SolveAir UNI

Sampling conditions and measurement results

Ambient air status indicators during measurements:

Temperature [°C]: 28,6
Humidity [%]: 42,8
Atmospheric pressure [mbar]: 1004

Status indicators of workplace microclimate during measurements:

Temperature [°C]: 25,1
Humidity [%]: 47,4
Atmospheric pressure [mbar]: 1004

Specific parameters of sampling and the measurement results:

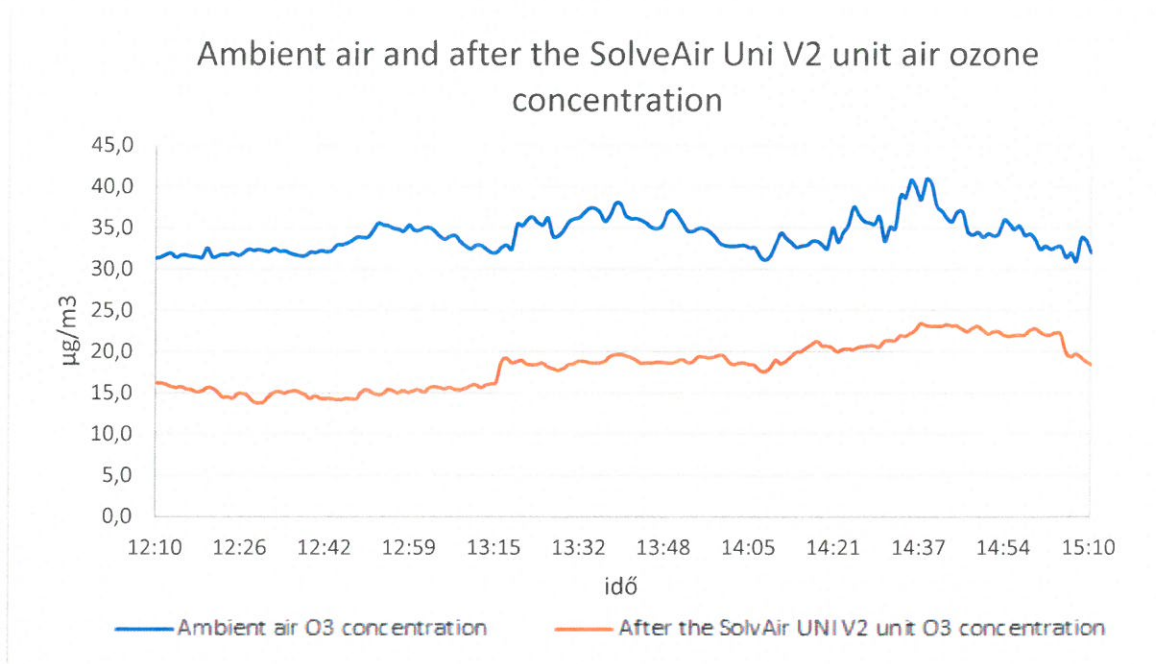
Parameters of solids sampling and measurement results:

Sample ID:	SJ 342
Laboratory code of sample:	21-818/3
Total dust concentration [mg/m ³]:	0,02
Total dust limit value [mg/m ³]:	10

Parameters of organic matter sampling and measurement results:

Pollutant	Measured value [mg/m ³]	ÁK Limit value [mg/m ³]
toluene	0,014	190
ethylbenzene	0,005	442
xylenes	0,023	221
2-propyl alcohol	0,036	500
ethyl alcohol	0,054	1900
acetone	0,149	1210

O₃ concentration measurement results:



Evaluation of measurement results

As a result of the study, it can be concluded that in the case of the SolveAir Uni V2 type air purification equipment developed by SolvElectric Kft., no limit value exceeded of the below listed pollutants was observed comparing to the limit value specified by ITM regulation 5/2020 (II.6.).

Inspected plant	Pollutant tested	Concentration [mg/m ³]	Limit value [mg/m ³]	ÁK exceeding
SolveAir Uni V2	Solid matter	0,02	10	None
	Toluene	0,014	190	None
	Ethyl benzene	0,005	442	None
	Xylenes	0,023	221	None
	2-propyl alcohol	0,036	500	None
	Ethyl alcohol	0,054	1900	None
	Acetone	0,149	1210	None
	O ₃	0,002	0,2	None

Budapest, 21 October 2021.

Palina Devesi

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