

Tested device	NUVOHLA ROOM
Date	September 2021
Test performed	Assessment of the reduction of environmental pollutants (air quality)
Place	Air quality laboratory room (8m ³)
Realized by	Esther Montesinos
Supervised by	Dr. Pere Monagas

PROCEDURE

To carry out relevant tests of the product, an 8m³ room has been used. Within the room, stable conditions of temperature (20 ± 3 °C) and relative humidity (50 ± 5 %) have been maintained.

Two tests have been performed, the first one with the device turned off (as a control) and the second one with the device under normal conditions of operation, to assess its environmental pollutants reduction capacity. For each test performed, 5 samples have been taken every 30 min. At the end of the test, results obtained after 2h of operation have been taken as relevant to assess the product efficiency against environmental pollutants.

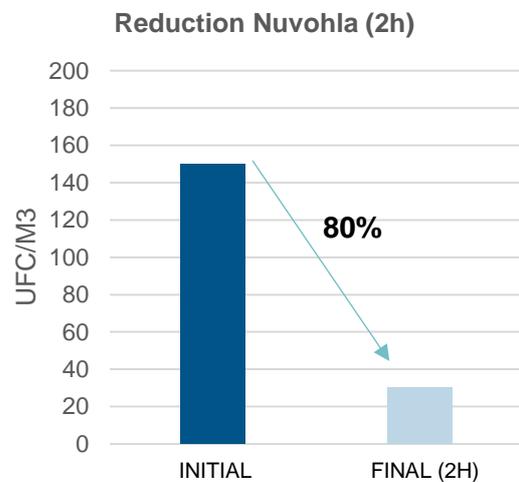
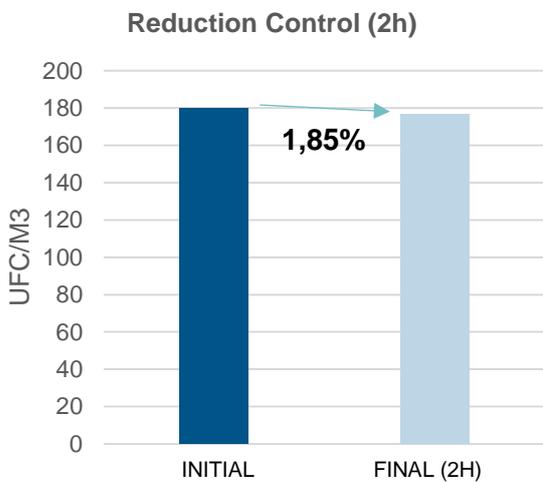
COLLECTED DATA

TEST	SAMPLE	T(°C)	HR(%)	UFC/m ³
TEST 1 – DEVICE TURNED OFF (CONTROL)				
1.1	0h	26,1	53,5	170
	1h			150
	2h			180
1.2	0h	26,1	53,3	180
	1h			160
	2h			170
1.3	0h	26,2	53,9	190
	1h			150
	2h			180
TEST 2 – DEVICE OPERATING				
2.1	0h	24,6	51,7	210
	1h			50
	2h			30
2.2	0h	22,3	58,0	150
	1h			70
	2h			40
2.3	0h	25,1	57,7	90
	1h			50
	2h			20

RESULTS

To assess the obtained results, values obtained at 0h have been considered as initial, and the ones obtained after 2h as final.

TEST	SAMPLE	UFC/m ³	Reduction (%)
1 (Control)	0h	180	--
	2h	177	1,85%
2 (Nuvohla)	0h	150	--
	2h	30	80,00%



CONCLUSIONS

The Nuvohla device ability to reduce airborne microorganisms has been validated, resulting in an **average reduction of 80% in 2 hours of operation.**