

# DIN EN ISO 10121-3:2023-10 (E)

## Test methods for assessing the performance of gas-phase air cleaning media and devices for general ventilation - Part 3: Classification system for GPACDs applied to treatment of outdoor air (ISO 10121-3:2022)

---

<b>Contents</b>		<b>Page</b>
	European foreword .....	3
	Foreword.....	4
	Introduction.....	5
<b>1</b>	<b>Scope</b> .....	<b>6</b>
<b>2</b>	<b>Normative references</b> .....	<b>6</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>6</b>
<b>4</b>	<b>Symbols and abbreviated terms</b> .....	<b>11</b>
<b>5</b>	<b>Classification system for outdoor air</b> .....	<b>11</b>
	5.1 General.....	11
	5.2 Test setup and test parameters.....	12
	5.3 Initial removal efficiency.....	13
	5.4 Dose concept.....	13
	5.5 Classes, duty levels and dose.....	13
	5.6 Pollutants and concentrations.....	14
	5.7 Integrated removal efficiency.....	14
	5.8 Classification example graph.....	15
	5.9 Desorption and retentivity.....	16
<b>6</b>	<b>Classification test sequence</b> .....	<b>16</b>
	6.1 General.....	16
	6.2 Conditioning.....	16
	6.3 Initial removal efficiency.....	17
	6.4 Capacity determination expressed as $E_c$ (%) versus $D_N$ (g/m <sup>2</sup> ).....	17
	6.4.1 Zero to LD.....	17
	6.4.2 Check $E_c$ at LD.....	17
	6.4.3 LD to MD.....	17
	6.4.4 MD to HD and HD.....	17
	6.5 Retentivity.....	18
	6.6 Premature stop.....	18
<b>7</b>	<b>Classification system</b> .....	<b>18</b>
	7.1 General.....	18
	7.2 LD, MD and HD dose values.....	18
	7.3 Classification example.....	19
<b>8</b>	<b>Report</b> .....	<b>20</b>
	8.1 General.....	20
	8.2 Test report layout.....	20
	<b>Annex A (informative) Information about environment pollutant concentration in outdoor air</b> .....	<b>27</b>
	<b>Bibliography</b> .....	<b>29</b>