

## ONGONIG STANDARDISATION

- ISO TC146/SC6/WG25
  - ISO DIS 16000-44:2022: Test method for measuring perceived indoor air quality for use in testing the performance of gas phase air cleaners
- ISO TC142/WG8: Gas Phase Air Cleaning Devices and Media
  - ISO/PWI 23743 "Testing of gas phase air cleaners for improving perceived indoor air quality".

PERCEIVEI	J AIR QUALITY
INTERNATIONAL ISO STANDARD 16000-28	Test Panel • Trained • Untrained Odour • Acceptance • Intensity • Hedonic tone Examples of diffuser and mask used for odour evaluation
Indoor air — Part 28: Determination of odour emissions from building products using test chambers Air intérieur — Partie 28: Détermination des émissions d'adeurs des produits de construction au moyen de chambres d'essai	Figure C.1 – Diffuser

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A test room for a stand alone air cleaner

- 1 test chamber
- 2 clean air supply inlet
- 3 exhaust outlet
- 4 emission source
- 5 An air cleaner



A test room for an in duct air cleaner

- 6 mixing fan
- 7 tube or duct
- 8 sniffing device,
- 9 front/anterior space in which human panel enter
  10 in duct air cleaner

## ISO DIS 16000-44:2022: Test method for measuring perceived indoor air quality for use in testing the performance of gas phase air cleaners



## A test room for a stand alone air cleaner

- 1 test chamber/room
- 2 clean air supply inlet
- 3 exhaust outlet
- 4 odour emission source
- 5 standalone air cleaners
- 6 mixing fan



A test room for an in duct air cleaner

- 7 tube or duct
- 8 sniffing device,
- 9 front/anterior space in which human panel enter
- 10 in duct air cleaner
- 11 partition
- 12 door for access









## $\Delta CO_2$ levels considering a 30 % reduced ventilation rate due to air cleaners

Space type Single office	Occupancy [m <sup>2</sup> per person]	Category	Derived from qtot	
			Very low-polluting building	Low-polluting building
			Indoor CO <sub>2</sub> level above outdoor level $\triangle CO_2$ [ppm]	
Without air cleaner	10	IEQı	370	278
		IEQп	529	397
		IEQm	926	694
		IEQIV	1389 (1010)	1010 (794)
With air cleaner	10	IEQ	529	397
		IEQu	756	567
		IEQm	1323 (1029)	<b>992</b> (817)
		IEQIV	1984 (1100)	1443 (911)



