

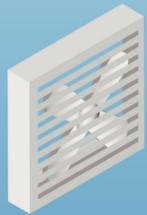
#CleanAir Improvements in air quality

1



Air Purifier
with HEPA

2



Constant/
Tilt Ventilation

3



Open
Windows

4



Exhaust
Ventilation
System

5



HVAC
System

6



CO₂
Measuring
Device

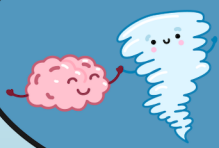


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#CleanAir Improvements in air quality answers



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#CleanAir

CO₂ values

1

**Approximately
420 ppm**

Fresh air
necessary

2

**Until
600 ppm**

Performance
drops by 30%

3

**Over
800 ppm**

Healthy
outdoor
air

4

**Over
1000 ppm**

Headaches &
fatigue

5

**Over
1400 ppm**

Healthy
indoor
climate

6

**Over
2000 ppm**

Performance
drops by 15%



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#Clean Air

CO₂ measurements
answers



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#CleanAir

Exhaled air &
CO₂ values

1

1000 ppm

0,04% CO₂ =
no exhaled air

2

420 ppm

10% CO₂ -
each 10th breath
is made of fully
exhaled air

3

3600 ppm

4% CO₂ - each
25th breath is
exhaled air

4

4400 ppm

1.5% CO₂ - each
65th breath
is exhaled air

5

800 ppm

8% CO₂ - each
13th breath
is exhaled air

6

2000 ppm

1% CO₂ - each
100th breath
is exhaled air



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#CleanAir

Exhaled air
answers

If we don't drink water
that others spat out,
why do we breathe air
that others exhaled?



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#CleanAir

Exhaled air &
CO₂ values

1

1000 ppm

Zero percent
of air is
exhaled air

2

420 ppm

1/10 of the air
was exhaled

3

3600 ppm

For visualization:
1 in 25 breaths
comes from
inside others
in room

4

4400 ppm

Almost every
65th breath
consists of
breathed out air

5

800 ppm

8% of the air
around was
before being
exhaled

6

2000 ppm

1% exhaled air -
so only each
100th breath was
already breathed



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#CleanAir

Exhaled air
answers

If we don't drink water
that others spat out,
why do we breathe air
that others exhaled?

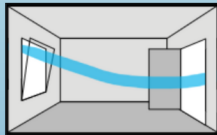


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#CleanAir
for clever minds!

1 VENTILATE



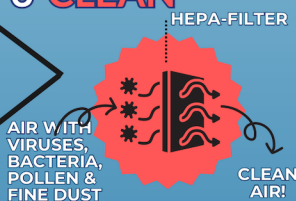
Air quality is important for comfort - just like light, temperature & quiet!

2 MEASURE



Outdoor air / air purification: 40m³ per person per h or 6 air changes per h

3 CLEAN



Air purifiers with HEPA filters help maintain good air quality

4 HEALTH



CO₂ values show the air quality; used & unhygienic air becomes visible

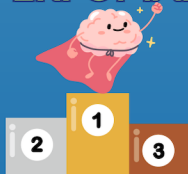
5 WELLBEING



Over 1000ppm CO₂ impairs

- learning,
- creativity,
- performance,
- attention

6 PERFORMANCE



avoid infections,

- reduce absenteeism,
- enable participation
- save the lungs, ...

#CleanAir
for clever minds!
answers



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