

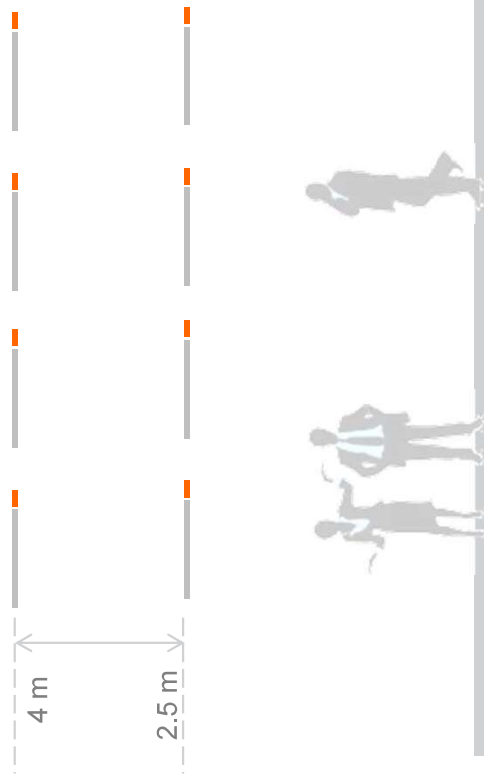
Installation recommendation based on air purification

AirZing™ can be **ceiling mounted** or **wall mounted**, the installation height of general space is between **2.5m-4m**.

36W

The coverage area of one set of fixture is **15-20m²**

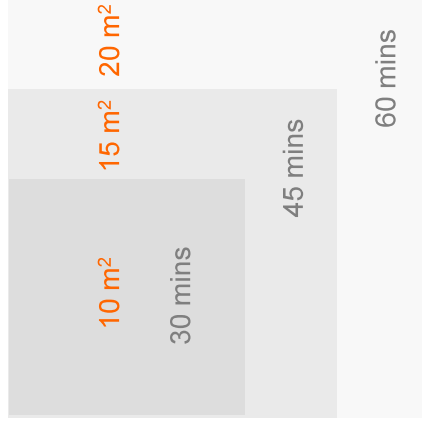
- <10m², 30 mins is recommended;
- 10 - 15m², 45 mins is recommended;
- 15 - 20m², 60 mins is recommended;
- >20m², multiple fixtures are recommended.



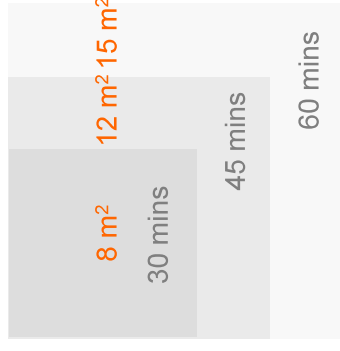
30W

The coverage area of one set of fixture is **12-15m²**

- <8m², 30 mins is recommended;
- 8 - 12m², 45 mins is recommended;
- 12 - 15m², 60 mins is recommended;
- >15m², multiple fixtures are recommended.



Height = 3m



*30W is being tested, will share result once it's confirmed.

AirZing PRO 5040 (36W)

AirZing PRO 5030 (30W)

How much UV-C we need to obliterate microorganisms - Surface cleaning

It depends on

Microorganisms UV Susceptibility

Microorganisms structure and inherent ability to recover from damage induced by UV light



$$\text{UV dose} = \text{Exposure time} \times \text{UV Irradiance}$$



J/m^2

s

w/m^2

Microorganism	99%
Bacillus anthracis(vegetative)	90.4
S. enteritidis	80
B. megatherium sp. (veg.)	75
B. megatherium sp. (spores)	56
B. paratyphosus	64
B. subtilis (mixed)	142
B. subtilis spores	240
Corynebacterium diphtheriae	68
Eberthella typhosa	42.8
Micrococcus candidus	121
Micrococcus piltonensis	162
Micrococcus sphaerooides	200
Neisseria catarrhalis	88
Phytomonas tumefaciens	88
Proteus vulgaris	54
Staphylococcus aureus	99

How long do we need to operate our AirZing?

36W	30W
1.4	1.2
0.22	0.20
0.088	0.07
5	5

@ 1m @ 2.5m @ 4m

For example:

- If we have a 10m² space,
- We use **36W** (AirZing PRO 5040) **0.22 w/m²**
- The installation height is **2.5m** **99 J/m²**
- Our target is to kill 99% of Staphylococcus aureus
- We need to operate 450s = 99/0.22 **7.5 mins**

Source: CIE 155:2003 UV Air Disinfection