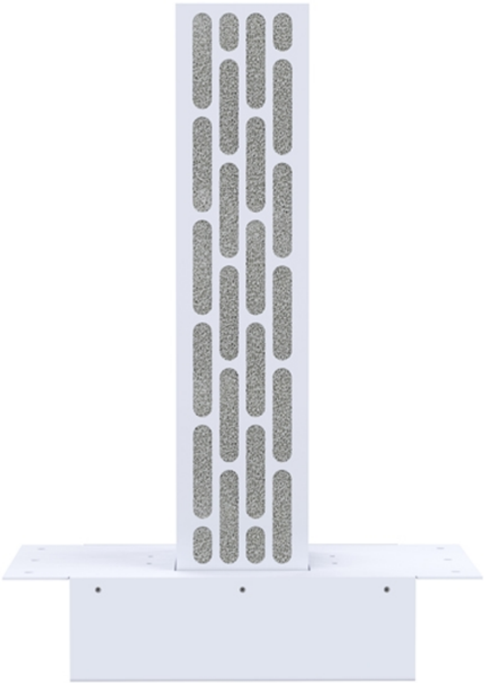
POWERFUL HVAC UVC SYSTEM

Independent Research And Development



Designed for
HVAC Duct

30W UVC Lamp:
Ten times Competitors

Kill 99% of
Pathogens

Energy Savings:
Unique Airflow sensor

Improve HVAC
Efficiency

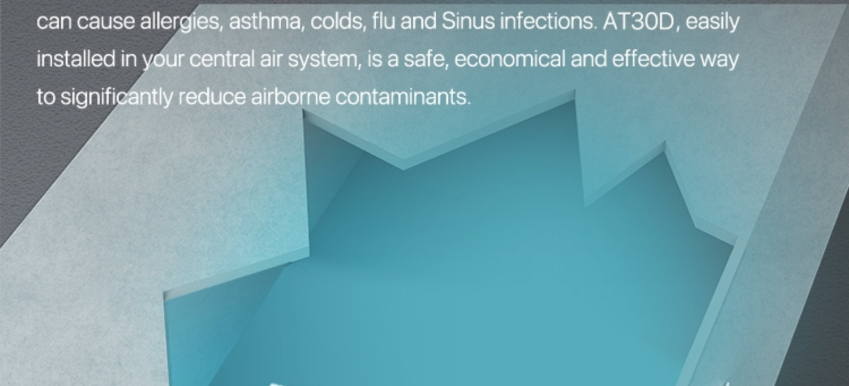
Proprietary
Frame Design

8000-hour
Lifetime

LED Indicator
Light

Designed for HVAC Duct

HVAC systems are typically inaccessible and a reservoir for mold, bacteria and slime that can circulate throughout any dwelling. These contaminants can cause allergies, asthma, colds, flu and Sinus infections. AT30D, easily installed in your central air system, is a safe, economical and effective way to significantly reduce airborne contaminants.

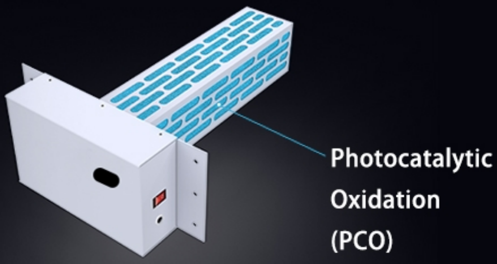


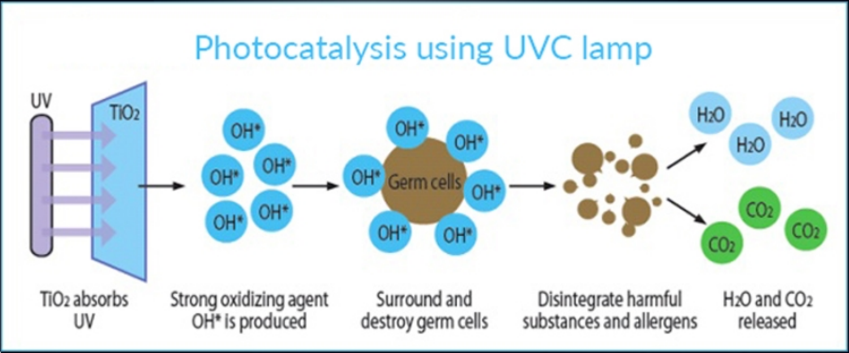
PCO

With PCO.

What is PCO?

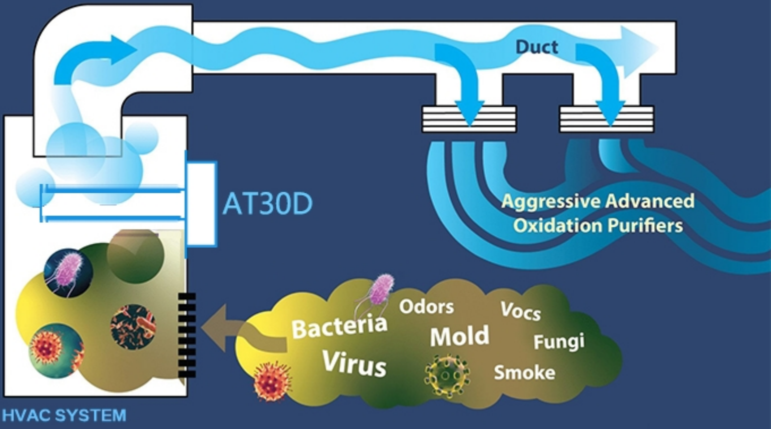
Photocatalytic Oxidation (PCO) is a series of reactions that starts when Titanium Dioxide (TiO2) is exposed to ultraviolet (UV) light rays. TiO2 absorbs photons and liberates electrons that, in contact with oxygen and water vapour molecules in the air, produce ions known a reactive oxygen species (ROS) that are dispersed in the air flow. When VOCs, gaseous contamnants, odors, bacteria, viroses, mold and fungi come in contact with ROS they broken to harmless water vapor and carbon dioxide, and neutralized. When used properly, PCO is a powerful active air sanitizer, ideal for controlling air quality. The neutralizing agent goes to the encounter of contaminants.

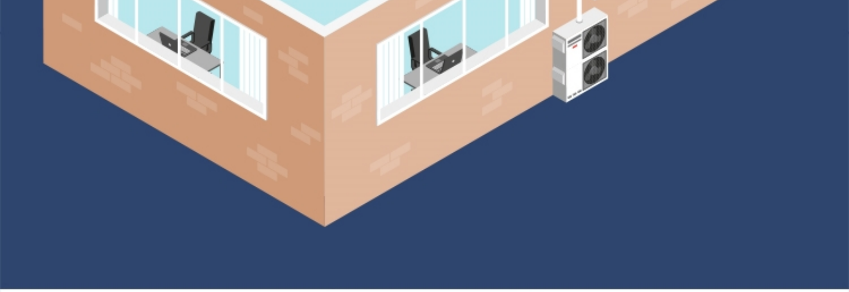


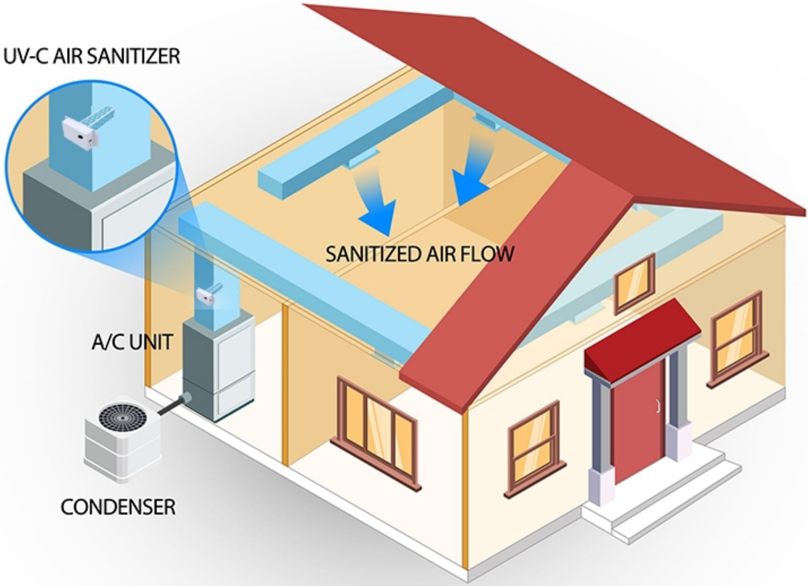

Photocatalysis using UVC lamp
UV
TiO_2
OH*
Germ cells
H_2O
CO_2
TiO_2 absorbs UV
Strong oxidizing agent OH* is produced
Surround and destroy germ cells
Disintegrate harmful substances and allergens
H_2O and CO_2 released

Kill 99% of Pathogens

UV Disinfection is a function of UV intensity and exposure time. AT30D not only has high UV intensity, but also comes with tubes to increase exposure time, which guarantees 99.9% of pathogens is killed once air pass AT30D. Great product helps keep building air as clean as possible.

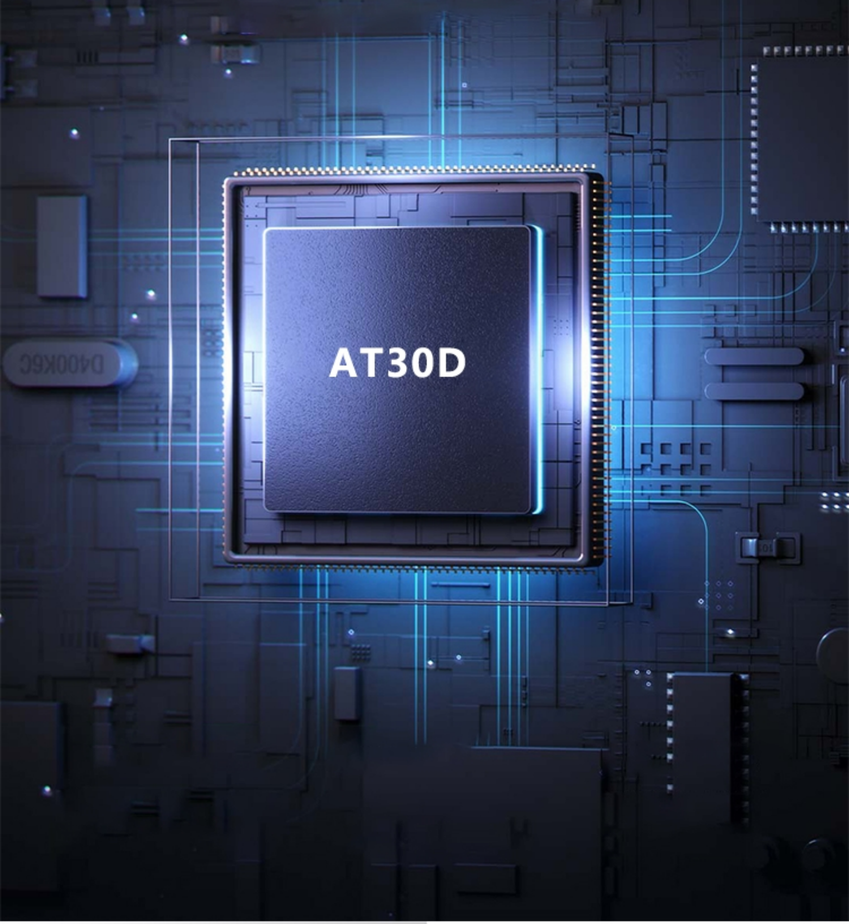






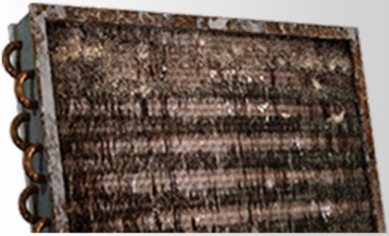
Unique Airflow Sensor

Unlike normal UV ducting system which works all the time, our airflow sensor turns AT30D on only when the HVAC system is operating, which is energy saving and helps prolong the lifespan of tubes.

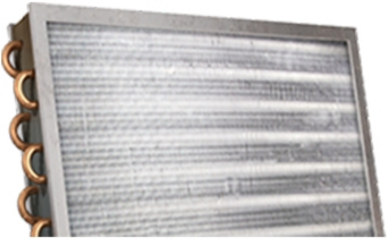


Improve HVAC Efficiency

UV-C eliminates and/or prevents the buildup of organic material on the surfaces of cooling coils, drain pans, and interior duct surfaces. This improves airflow, returns and maintains the heat-transfer levels of cooling coils to 'as-built' capacity, and reduces maintenance.



Coils Before UV-C



Coils After UV-C

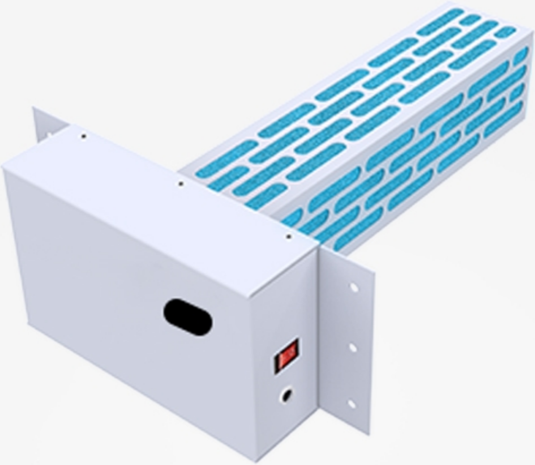
Proprietary Frame Design

Normal UVC lamp only has tube and ballast, but it’s very dangerous, because without fixator, tube easily shakes and finally breaks due to the powerful airflow within HVAC. Therefore, we developed a patented frame design which can stop the tube from shaking.

Normal Competitor

Smart Monitor System

Smart Display to Remind Replacing Lamps,When the lamp has been working for 8000 hours, the LED indicator light will turn yellow to remind you to replace the lamps.



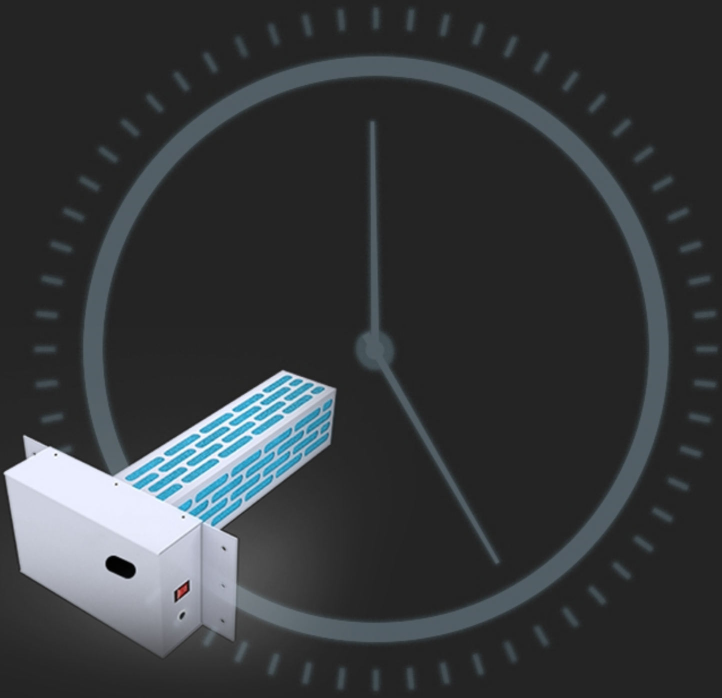
8000-hour

Lifetime

AT30D adopts superior tubes whose lifetime is up to 8,000 hours. If you turn it on for 24h each day, it can work for 334 days, which saves you the trouble of replacing the tubes frequently.

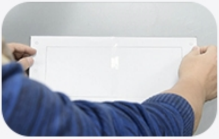
8,000
hours

334
days



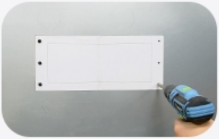
Easy 10min Installation

1



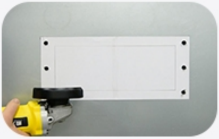
Attach the mounting template to your duct.

2



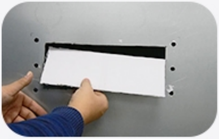
Drill screw holes in the duct with 10mm hole saw (Drill Bit included).

3



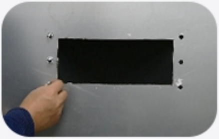
Drill rectangular hole with portable electric saw.

4



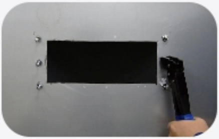
Remove the rectangular metal board.

5



Insert 6 expansion screws into the drilled screw holes.

6



Mounting screw installation position.

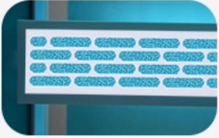
7

8

9

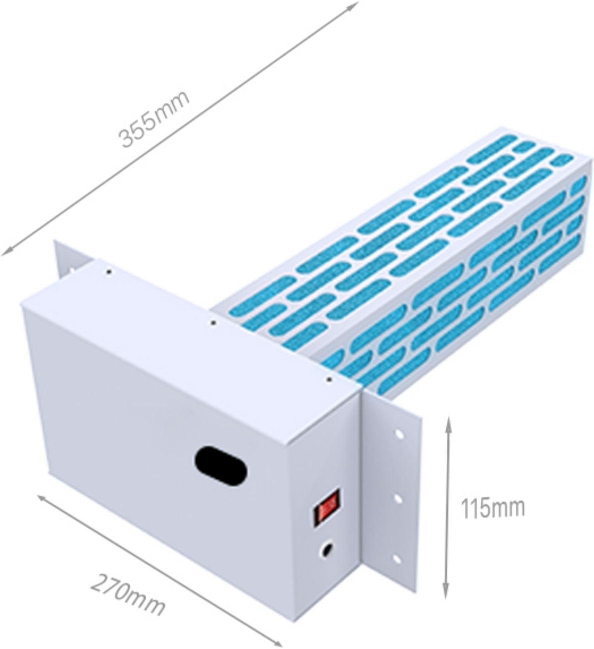
Insert AT30D into the duct.

Screw AT30D to the duct.



Take power-on test.

Specification



Voltage supply
90-264V

UVC Power
30W

Dimensions
115*355*270mm

Tube length
290mm

UV Intensity
30,000uw/cm²

UV Wavelength
253.7nm

Total tube
1pcs

Lamp Operating hours
8,000 hours

Warranty
1 year

Housing
Zinc Plated Stainless Steel

Product Display

Airflow Sensor

Switch on/off the device

Smart Display

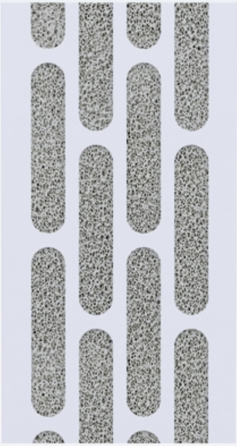
Remind Replacing Lamps

Lamp Holder

Supply electricity to the tubes

Photocatalytic Oxidation

controlling air quality.



CERTIFICATE

Supplier's Declaration of Conformity

FC

FCC

Certificate of Conformity

CE

CE

Certificate of Conformity

RoHS

RoHs

CERTIFICATE

EPA

Caution

It is important to remember that direct exposure to UVC can be harmful to your eyes.
The power source & power adapter should never be connected and plugged into an electrical outlet unless the UVC lamp bulb has been inserted into the duct work hole and secured as follows.