

JADE FAQ | SURGICALLY CLEAN AIR

Q - What technologies are utilized in Jade?

A - There are six stages of technology used in the Jade Air Purifier.

- 1 The pre-filter filters large visible and invisible particles
- 2 The HEPA Rx filters 99.998 to 0.1 microns in size. .1 microns is 10 millionth of a meter or 1/250,000 of an inch
- 3 The activated carbon filter absorbs odors, chemicals and gases.
- 4/5 The photo-catalytic stage/UV kill chamber breaks down residue from destroyed organic VOC's, bacterial and viral organisms. disables the DNA of viruses and bacteria.
5. Before the pure, clean air is circulated back into the room, the air is revitalized with negative ions. Negative ions increase the flow of oxygen to the brain; resulting in higher alertness, decreased drowsiness and more mental energy.

Q - How much electricity does a Jade Air Purifier use?

A - In keeping with our low running cost principles; the Jade air purifier is equivalent to running a 60W light bulb.

Q - How many square feet does the Jade clean?

A - This is the most commonly asked question and it is the answer that can be most misleading. Almost all air cleaning companies quote the square footage coverage based on 1ACH (Air Change per hour) running the unit on the MAX speed. MAX is almost always far too loud and 1ACH is not enough air turns especially if virus filtration is your main concern. CDC (The center for Disease Control) recommends 6 ACH. The chart below gives you the real coverage of Jade.

Jade		1 ACH	2 ACH	3 ACH	4 ACH	5 ACH	6 ACH	10 ACH
SPEED	CFM							
1	153	1148	574	383	287	230	191	115
2	229	1718	859	573	429	344	286	172
3	312	2340	1170	780	585	468	390	234
4	406	3045	1523	1015	761	609	508	305

Q - Will a Jade alter the temperature of my indoor environment?

A - Not directly, as a Jade has no heating or cooling components. It does however circulate the air within a room which can have some indirect positive effects on indoor air temperature.

Q - Will the Jade alter the humidity of my indoor environment?

A - Not directly as a Jade Purifier has no water connected to it. It does however circulate the air within a room which can have some indirect positive effects on humidity.

Q - Are Jade purifiers safety certified?

A - All Surgically Clean Air Purifiers are independently lab tested and certified to be in compliance with UL standard 867 and CSA standard C22.2 No. 187-M1986 by ETL and bears The ETL and CETL mark.

Q - Which speed should run my Jade?

A - The more air that you move through the Jade the more you clean the air. Therefore, you should adjust the air flow based on the level of cleaning you desire. The higher the airflow the "cleaner" your indoor air will be.

Q - How will I know if my Jade is actually removing harmful contaminants?

A - Air purification is generally an invisible operation. That said, our clients tell us that they notice the difference once they install a Jade Purifier. They find the air to be fresher and lighter, they feel more energized, and they see less dust on furniture, floors and fixtures and they get sick far less often. You will also notice how well it is working when you clean the pre-filter which is often black with dirt even from rooms whose air looks relatively clean. The real time IAQ monitor and VOC monitor will also provide you peace of mind knowing the Jade is performing at its best.

Q - Do Jade's produce or introduce anything that can be considered harmful to your health?

A - No. All Surgically Clean Air Purifiers are designed to clean indoor air safely.

Q - Why do Surgically Clean Air Purifiers have a Negative Ion function

A - According to Columbia University, studies of people with winter and chronic depression that were placed in air with a higher concentration of negative ions show that the negative ions helped relieve their depression as much as antidepressants, without the side effects associated with taking drugs. Today, general scientific understanding suggests that negative ions increase the flow of oxygen to the brain which results in more mental energy, decreased drowsiness and higher mental alertness.

Q - I see air purifiers selling for a lot less than a Jade unit, what is the difference between them and a Jade?

A - The cheaper the unit the less sophisticated a filtration system it has and the less air flow movement it creates. The combination of these two results in drastically reduced air cleaning efficiency. Other major issues with low-cost units are increased noise, reduced reliability, Fewer technologies, higher operating costs, difficulties in finding replacement filters, in summary you get what you pay for. Use the chart below when comparing Jade vs other Air cleaners

21 Reasons to say "YES" to JADE	Jade	vs
Prefilter	Yes	
Filter Efficiency Rating	99.998% @.1 micron	
Available Filter Rating Test	Yes	
Carbon Filter	Yes	
UVC (254nm)	10 WATT	
Available Verified Virus Kill Test	Yes	
TiO ²	Yes	
Negative Ions	Yes	
Available Verified CFM Test	Yes	
Five Speeds	Yes	
Speed 1 153 CFM <30db		
Speed 2 229 CFM <50db		
Speed 3 312 CFM <55db		
Speed 4 406 CFM <60db		
Speed 5 Auto Depends on IAQ		
Available Auto Speed	Yes	
Filter Replacement Indicator	Yes	
Real Time IAQ Monitor	Yes	
Real Time VOC Monitor	Yes	
Cold Rolled Steel Construction	Yes	
Touchless "Wave" Technology	Yes	
Sleep Dimmer	Yes	
Lockable Speed	Yes	
Inexpensive Consumables	Yes	
On-line Filter Ordering System	Yes	
"No Tools" Filter Replacement	Yes	
	21/21	/21

Q – Can I leave my Jade on all the time?

A – Yes! Jade units are designed and built for continuous use to keep continuously cleaning the air. We encourage customers to leave one of their air cleaners on at all times. Extra units can be turned off at night to save on filter replacement

Q – How much noise does a Jade create?

A – The Jade Air Purifier is one of the quietest Medical and Commercial Grade systems on the market today. Our unique Sound Dampening Design allows a Jade unit to move a large capacity air flow at whisper quiet levels. (55db is the equivalent to a dishwasher)

Speed 1	153 CFM <30db
Speed 2	229 CFM <50db
Speed 3	312 CFM <55db
Speed 4	406 CFM <60db

Q – Is it difficult to change the filters on a Jade unit?

A – Changing the filters on a Jade Purifier is very easy. No tools are required, and the unit will notify you when attention is needed. It takes less than 2 minutes to change the Carbon, HEPA Rx or UV. Go to our YouTube channel for a video explanation.

<https://www.youtube.com/user/SurgicallyCleanAir>

Q – How expensive are the filters and UV Bulbs?

A – All Surgically Clean Air Purifiers are designed to be very easy and inexpensive to maintain. They can be purchased from your local dealer or online by visiting

<https://surgicallycleanair.com/>

Q – When do I need to clean and change the filters?

A – All Surgically Clean Air Purifiers have indicators on the control panel, and these are explained in the user manual on Page 13.

<https://surgicallycleanair.com/wp-content/uploads/2020/04/SCA-Operation-Manual-JADE.pdf>

Q – Do Jade Air Purifiers emit ozone?

A – No! In fact, indoor ozone levels are actually reduced when operating a Jade Purifier because of the sophisticated technologies contained within our unique 6-Stage Filtration process. Jade passed the strictest ozone test in the world making it suitable for use in California.

Q - What does the number on the front of the machine mean?

A - The number on the front display is measuring micrograms of PM2.5 per cubic meter. A reading of '000' is excellent. You may notice it spike up to 1 or more now and then depending on activities going on around the unit. For example, in a high traffic area this can reach in the 20's or higher. For a detailed explanation of what PM2.5 is please see the following link: <https://www.epa.gov/pm-pollution/particulate-matter-pm-basics>

Further, please note that a reading of '000' does not mean there is no PM2.5 or that the system is not functioning correctly. It means that the current level of PM 2.5 is below 1 microgram per cubic meter – and this is a good thing. Most often when the unit is displaying '000' the actual level is around 0.3 to 0.4 micrograms per cubic meter. Our unit cannot display decimal points - Example – '000.03' so it rounds the value up or down to the nearest whole number.

Q - What does the color on the front of the machine mean?

A - When the unit displays orange or red it means that it is either sensing a spike in VOC's (Volatile Organic Compounds) in the area or a spike in particulate (aerosols), whichever it is sensing as highest.

In a dental setting most often this is from cleaning supplies (wipes) or other disinfectants which linger in the air or aerosols from dental procedures. It will change back to green when the VOC or particulate levels return to normal. DO NOT BE ALARMED BY THE COLOUR CHANGE. THE UNIT WILL EVENTUALLY RETURN TO GREEN ONCE THE VOC'S OR PARTICULATE HAS BEEN CLEARED.