



Health Technology Review	
Technology Ref:	HTA21039
Technology Name:	Wellis Air Purifier
Approvals by International Bodies:	FDA Registered and Institutional organization MRI Global in U.S.A.
Company name:	DIRECT SERVE GENERAL MAINTENANCE & CONTRACTING
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Short Description of the Technology:	<p>Wellis Air Purifier is 'Indoor Air Quality Solution'. It is the world's only air sterilization technology that generates OH radicals by reacting a little amount of ozone (O₃) with terpene oil in the cartridge. A mechanism is required to successfully sterilize bacteria and viruses. The OH radicals are highly reactive; therefore, they combine quickly with bacteria and viruses, and at the same time, they take away the H atoms and incapacitate them in the process of binding. Along with OH radicals, F (fluorine), O₃ (ozone), and H₂O₂ (hydrogen peroxide) have such reactions, but these possess toxic substances. On the other hand, OH radicals are harmless yet still have high reactivity. In the case of noxious gases such as VOC, OH radicals remove these gases through a series of reactions, whereas bacteria and viruses are neutralized through a single reaction. The oxidation reaction of OH radicals is 1 billion times faster and more than 13 times more effective than that of ozone.</p> <p>The OH radicals steal hydrogen (H) from proteins on the bacteria's surface, breaking down the proteins. The combining of an OH radical with hydrogen (H) creates water (H₂O), which returns to the air. Therefore, a key notion in this disinfection technology is creating naturally formed OH radicals artificially</p>
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Health Technology Assessment Team Recommendation:	Not Require DOH Approval
Summary of Review:	



Wellis Air Purifier is air disinfection system which is holding two patents from South Korea and China, The product is awarded the best innovation in 2020 in South Korea based on The theory of "natural purifiers" present in the atmosphere known as hydroxyl radicals. It's an Innovative technology (hydroxyl radicals technology) provides a solution in disinfecting the air and space surfaces. It continuously removes harmful bacteria, viruses, fungi, and odour indoors.

Advantages	Disadvantages
Holder of two patents from China and South Korea as an "APPARATUS FOR AIRBORNE DISINFECTION"	The Applicant didn't provide specific efficiency report for COVID 19 Virus
Registered by FDA & EUROPEAN UNION INTELLECTUAL PROPERTY OFFICE	The device needs to replace OH cartridge every three months
High efficacy against airborne and surface harmful microorganisms such as Coxsackievirus BS, Rotavirus & RSV	
Light weight and It is equipped in mobile devices and air conditioning	
Can be used in high risk clinical areas, patient rooms and even schools, convention centers, office buildings, government buildings... etc	

Since it is a consumer product but not a medical product there is no requirement for DoH approval or marketing authorization. We would highlight furthermore:

- This product will not replace any infection control and sanitization measures mandated by Abu Dhabi or UAE government for healthcare facilities or public places.
- Hence, DoH recommendation is to only use this technology as an additional measure for the prevention of infectious diseases.

Therefore, from our point of view this technology has great ability but does not require DOH approval.

Health Technology image

