ActivTapp™

ACTIVATED OXYGEN FAUCET

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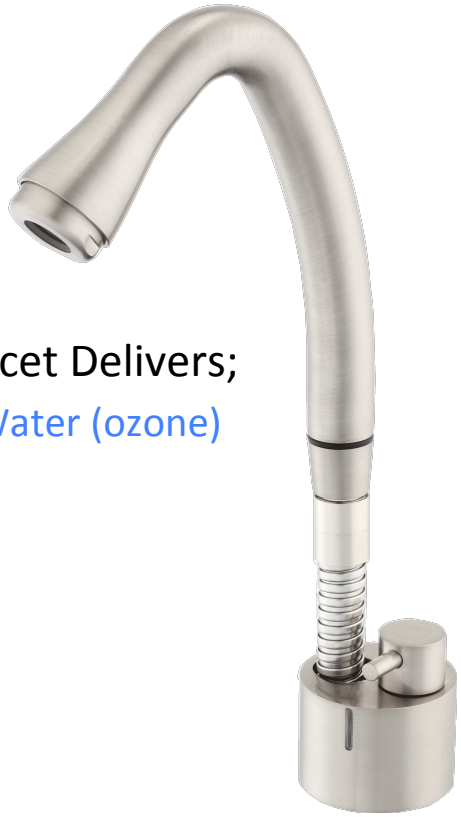
What is *ActivTapp™*

Two Models

3 Way Faucet

Side Spray Faucet



- Secondary kitchen Faucet Delivers;
  - Activated-Oxygen Water (ozone)

- Primary Kitchen Faucet that Delivers;
  - Traditional Hot Water
  - Traditional Cold Water
  - Activated-Oxygen Water (ozone)

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What is Activated-Oxygen

- Activated-Oxygen is also known as, Ozone.
- Ozone is the planets strongest oxidizer and disinfectant readily available for commercial use
- Ozone is 3,000 times faster acting and more effective than is chlorine in killing bacteria and viruses
- Ozone leaves behind no residues, off flavors or tastes, and its only by-product is oxygen
- Ozone is generated on-site, and does not require storage of chemicals
- 100% Chemical free and “Organic” certified

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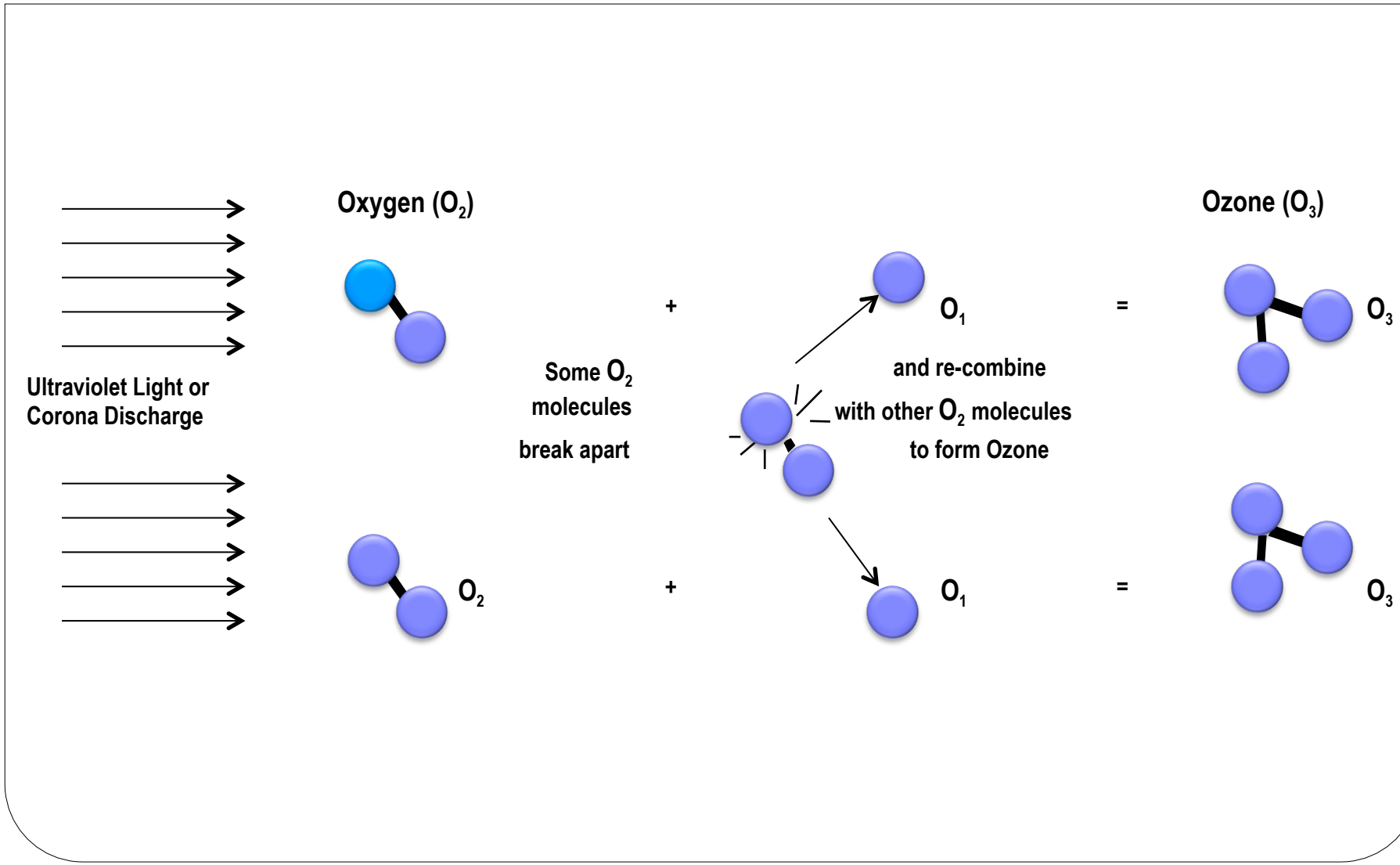
How Is Ozone Created



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Uses of Ozone

- Ozone has been used in many water treatment applications for over 100-years

Bottled Water – Must be filled with ozonated water

Well and Surface Water – Used by public drinking water supplies throughout the world

Commercial Pools – Olympics pool must use ozone for disinfection and oxidation

Food Processing – Used by many fruit, vegetable producers, and ready-to-eat (RTE) food packers

Hydro-poniocs – provides clean water to promote healthy growth

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Uses of Ozone

- Ozone has been used in many water treatment applications for over 100-years

Commercial and Residential Laundry –
to reduce water, chemicals, and hot-water

Wineries and Breweries – Used to disinfect barrels takes and other equipment

Residential Pools – Used to reduce chlorine and other standard sanitation methods

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ActivTapp Disinfection

- A 10-second rinse with ActivTapp can provide*
  - Kill 99.99% of bacteria and viruses on contact
    - E.coli
    - Clean Multi Food Surfaces
    - Fresh Fruit, Salads and Vegetables, Sea Food, Meats
  - Keep produce and food ingredients fresh
    - Up to three times longer, by destroying bacteria and viruses that cause spoilage
  - Remove agricultural chemical residues
  - Remove chlorine residues and its unpleasant taste from tap water.
  - Eliminate the use of hot water and conventional sanitizers, saving on daily operational costs

* 99.99% kill is obtained at 9µg/l of ozone for 10-seconds of contact time, with a water temperature of 12˚C. USEPA Guidance Manual, Alternative Disinfectants and Oxidants, 1999.

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Ozone and the USDA and FDA

- 1997: EPRI panel declares ozone GRAS (Generally Regarded As Safe) as a food additive
- 2001: FDA approves ozone as anti-microbial agent for food contact
- 2001: USDA/FSIS approves ozone for meat and poultry, including ready-to-eat meat and poultry products
- 2001: The use of ozone as an anti-microbial agent for direct contact with foods, including meats and poultry has been approved by the FDA
- 2001: The FDA released this final ruling in response to an Electric Power Research Institute (EPRI) food additive petition, amending previous regulations and granting regulatory acceptance of ozone as a food additive.

USDA
UNITED STATES DEPARTMENT OF AGRICULTURE

FDA
U.S Food and Drug Administration

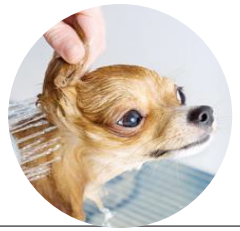
Benefits of ActivTapp

Disinfection On-Tap

Hygiene On-Tap

Fresher Food On-Tap

Hygienic Cleaner On-Tap



Eco-Friendly
On-Tap

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Uses of ActivTapp

- Disinfect your hands or kitchen utensils to kill common germs, bacteria, and viruses
- Rinse produce from the store before placing into the refrigerator will extend shelf life, without altering the taste of food
- Neutralise and eliminate pesticides
- Prolong the life of plants and cut flowers
- Surface Disinfection in the kitchen
  - Counters
  - Cutting boards
  - Sinks
- Soak sponges and wash-clothes in ozonated water to rid them of mildew smells

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Ozone water is natures natural way for disinfecting all it touches, and in 10 seconds not only kills bacteria, removes pesticides and eliminates odors ……

Sounds too good to be true

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Independent Bacteria Testing

About the four key pathogens

Clostridium difficile, Escherichia coli (E. coli), Salmonella typhimurium and Staphylococcus aureus are four key pathogens that produce toxins, which cause illness in mankind. These bacteria are commonly known to cause diarrhoea and food poisoning symptoms among other afflictions.

These pathogens can be spread from person to person due to poor hygiene, improper washing of hands after visiting the toilet, or the consumption of contaminated food and water. Coming in contact with infected animals is also another cause. Some bacteria can also contaminate their surroundings, such as toilets, bedclothes, skin and clothing.

For commercial premises that deal with food preparation, healthcare, children and even pets, it is imperative that the threats posed by pathogens such as these are neutralised and eliminated.

Test Result :

Test Item	Unit	Before processing	After processing	Elimination ratio(%)
Coliform	CFU/mL	3.6×10^3	<5	>99.9
Esherichia coli	CFU/mL	4.7×10^3	<5	>99.9
Total Plate Count	CFU/mL	8.8×10^3	<5	>99.9
Staphylococcus aureus	CFU/mL	4.0×10^5	<5	>99.9
Pseudomonas Aeruginosa	CFU/mL	5.1×10^5	<5	>99.9
Candida albicans	CFU/mL	3.3×10^4	<5	>99.9
Legionella pneumophila	CFU/mL	8.6×10^5	<5	>99.9

Independent Pesticide Testing

A spoon cabbage specimen was tested for trace amount of pesticides that are commonly used in conventional vegetable farming.

The same test was carried out again – this time, after the same spoon cabbage has been washed under our ozone water for 30 seconds.

Test results conducted by SGS show that 99.9% of the four pesticides detected earlier *Chlorpyrifos, Dimethomorph, Pencycuron,* and *Quinoxyfen* were removed after washing under our ozone water for 30 seconds.

Before washing

Test Item	Test Results ppm(mg/kg)	Detection Limit ppm(mg/kg)
Chlorpyrifos	12.12	0.01
Dimethomorph	6.66	0.01
Pencycuron	2.38	0.01
Quinoxyfen	0.03	0.01

After washing

Test Item	Test Results ppm(mg/kg)	Detection Limit ppm(mg/kg)
Chlorpyrifos	0.01	0.01

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Independent Surface Testing for Food Safety

For the test, some raw meat, seafood and vegetables were rubbed onto a chopping board and then left for bacteria to form. A first swap was then taken from the chopping board surface filled with bacteria.

The chopping board was then cleaned with an approved chemical disinfectant before taking a second swap. The results would show satisfactory kill rate of bacteria between the first and the second swap.

The same test was repeated, this time using the ozone water from ActivTapp as the cleaning agent instead of chemical disinfectant.

In both tests, the results were satisfactory.

The implication here is that restaurants and eateries can safely use our ozone water to perform the same function as chemical disinfectants. Not only would these establishments save money, but they would also use less chemicals, contributing to a friendlier environment.

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Independent Ozone Overspill Testing


TEST REPORT

RESULT

Time (min)	Concentration (ppm)	Time (min)	Concentration (ppm)	Time (min)	Concentration (ppm)
1	0.002	11	0.003	21	0.003
2	0.002	12	0.002	22	0.003
3	0.003	13	0.002	23	0.003
4	0.003	14	0.003	24	0.003
5	0.003	15	0.003	25	0.003
6	0.003	16	0.003	26	0.003
7	0.003	17	0.003	27	0.002
8	0.003	18	0.003	28	0.003
9	0.002	19	0.003	29	0.003
10	0.003	20	0.002	30	0.002

Average = 0.003ppm

The FDA rule basically states that the maximum acceptable level of ozone gas spillage from any ozone generating device should not exceed 0.05 part per million (ppm) by volume of air in the atmosphere of enclosed space intended to be occupied by people for extended periods of time, e.g., commercial kitchens, bars, restaurants medical clinics, hospitals.

The ActivTapp System has been independently tested as such by SGS International Testing Laboratories and the testing results show an average spillage of 0.003ppm – well below the safety guidelines set by the FDA. To put this in perspective, the overspill of 0.003ppm from our ozone system amounts to only 6% of maximum allowable limit.

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Independent Water and Electrical Approval

National Sanitation Foundation (NSF) of the USA is one of the most highly regarded authorities on sanitary plumbing products. The ActivTapp systems are approved and certified in compliance with NSF/ANSI 61 (an NSF certification scheme), which ensures that the entire system including all its components will not pose any adverse health effects.

The ActivTapp faucets are certified under AB1953 (California Assembly Bill 1953), specifying its lead content level is below 0.25%, therefore it is able to deliver water that is safe for human consumption.

The cUPC Mark was developed in response to an industry request of a uniform code for testing plumbing supply fittings that would be acceptable in both Canada and the USA. The ActivTapp faucets are cUPC certified, therefore they are allowed for sale in both Canada and the USA.

The ActivTapp systems are fully compliant with the CE marking for Low Voltage Directive (LVD) and Electromagnetic Compatibility Directive (EMC) in the European Economic Area (EEA). The LVD ensures that the electrical component will be used safely for its intended applications. The EMC requires that products must not emit unwanted electromagnetic pollution (interference) that might disturb radio and telecommunication as well as other equipment.

Other Approvals and Certifications

Australia and New Zealand

WaterMark™

UK and Northern Ireland

APPROVED WRAS MATERIAL

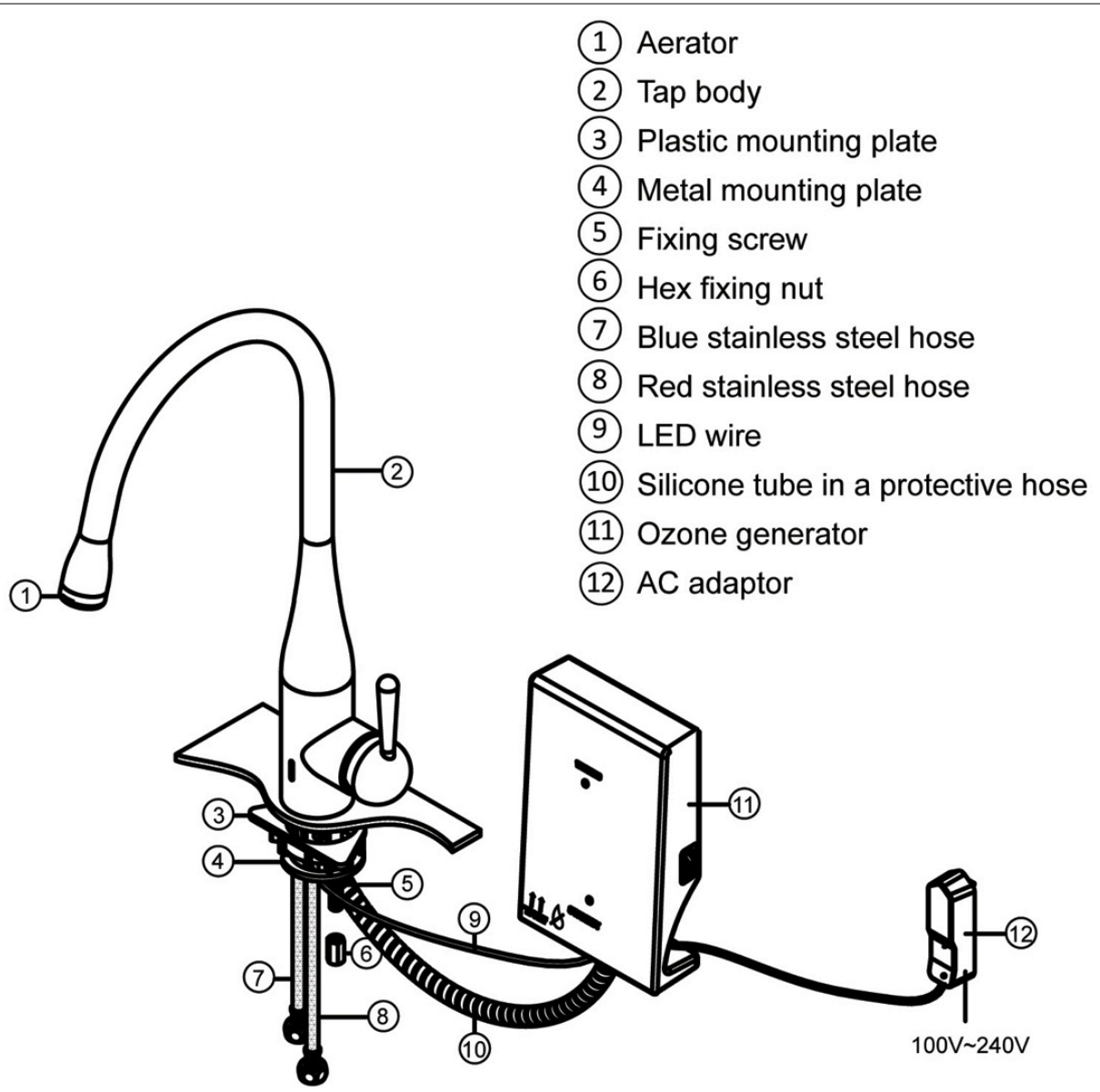
Germany

KTW-DVGW

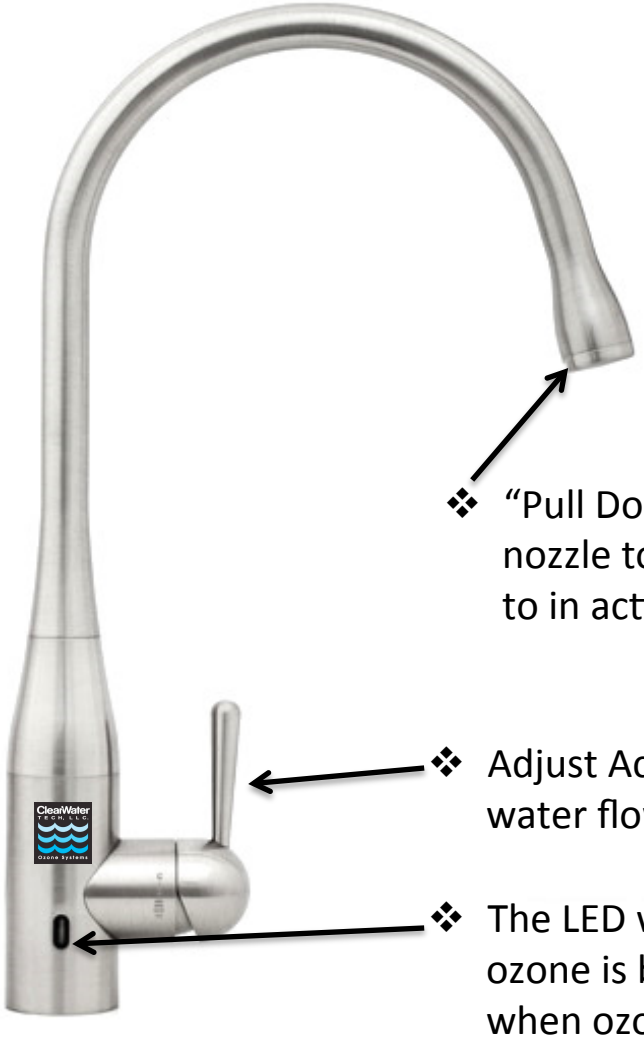
France

ATTESTATION DE ACS CONFORMITÉ SANITAIRE

ActivTapp Components



How ActivTapp Works – 3-Way Kitchen Faucet



❖ Ozone Generator

❖ "Pull Down" on the end of the nozzle to activate ozone. "Push Up" to in activate ozone

❖ Adjust ActivTapp Lever to initiate water flow

❖ The LED will illuminate Blue when ozone is being produced, and Red when ozone is not being produced.

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How ActivTapp Works – Side Spray Faucet

- Ozone Generator

- "Pull Out" Style faucet
- Adjust ActivTapp Lever to initiate water flow
- The LED will illuminate Blue when ozone is being produced

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The One-Stop Ozone Faucet

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The Ozone Faucet Product Range In-situ

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