

A-Zone™

BRISTOL, UNITED KINGDOM

A-Zone is a subsidiary of A-Gas International, a leading independent global supplier of speciality gases and performance chemicals. Established in 1993, the group has strong market positions in the UK, South Africa and Australia and has sales offices in the USA, Thailand, Singapore and China.

A-Zone Technologies Ltd specialises in electrochemical reactors incorporating high performance boron-doped diamond electrodes. Following years of research and development into this amazing material, the company has acquired substantial knowledge and expertise in its use and application.

*A-Zone designs and builds state-of-the-art disinfection systems incorporating powerful **DiaZone™ Supercells**.*

These electrolytic cells generate ozone (O_3) from the "O" in "H₂O" as water simply flows through the cells. This is a robust technology that is economic in operation and intrinsically safe.



Pools, spas and jacuzzis



Floral care for extending the life of cut flowers



Fruit and vegetable produce washing



Drinking water in private and managed buildings

POWERFUL DISINFECTION SYSTEMS

Ozone is a powerful oxidiser and disinfectant. It is the most powerful of all oxidants available for disinfection. Compared to chlorine, the chemical most commonly used for water disinfection, ozone is at least 10 times more powerful and faster acting. Ozone in solution is known to kill microbes of all types including bacteria, viruses, fungi and fungal spores, moulds and mildew, protozoa and their cysts (including Giardia and Cryptosporidium), and algae.

Whilst electrolytic ozone is intrinsically safe, it should be noted that chlorine is highly toxic and forms a range of extremely undesirable disinfection by-products such as Trihalomethanes (THMs) and Haloacetic acids (HAAs), both known carcinogens.

A-Zone's patented technology has many applications and a range of new products are currently under development. These include disinfection systems for:

- Drinking water in private and managed buildings
- Agricultural water tanks and harvested rainwater
- Borehole water supplies including the removal of heavy metals
- Drinking water in remote locations and particularly disaster aid
- Cooling towers and evaporative condensers
- Ultra pure water for electronics industries
- Clean-in-Place systems for pharmaceutical companies and food processors
- Fruit and vegetable produce washing
- Meat, animal products and seafood washing and food safety generally
- Ponds and tanks for aquaculture
- Floral care for extending the life of cut flowers
- Pools, spas and jacuzzis

Also, ozone-water fogging systems for:

- Whole room and workplace disinfection
- Disinfection of intensive production units for livestock and poultry
- Milk processing and dairy disinfection