



ON DEMAND OZONE GENERATION FOR CHEMICAL OR DISINFECTING PURPOSES



The Ozone Module™ provides a safe and efficient way of generating ozone from oxygen with the oxygen amount precisely controlled through the built-in mass flow controller. This system can also be used as a powerful and compact standalone ozonizer. The Ozone Module™ will need an oxygen generator such as a cylinder to operate.

Ozone production:	Up to 14% (at 20 NmL/min O ₂ flow rate)
Ozone concentration:	10-16% (volume) depending on O ₂ flow rate and cell temperature
Pressure range:	Atmospheric to 6 bar
Temperature range:	Room temperature
Oxygen flow rate range:	1 mL/min to 100 mL/min, 1 mL/min step setting option
Productivity range:	mg - kg scale, depending on the chemical reaction

Our company has the widest portfolio of continuous flow reactors for various markets. Our award-winning H-Cube® and the technologies based on this innovation are used in hundreds of laboratories globally and have become the new industry standard for hydrogenation.

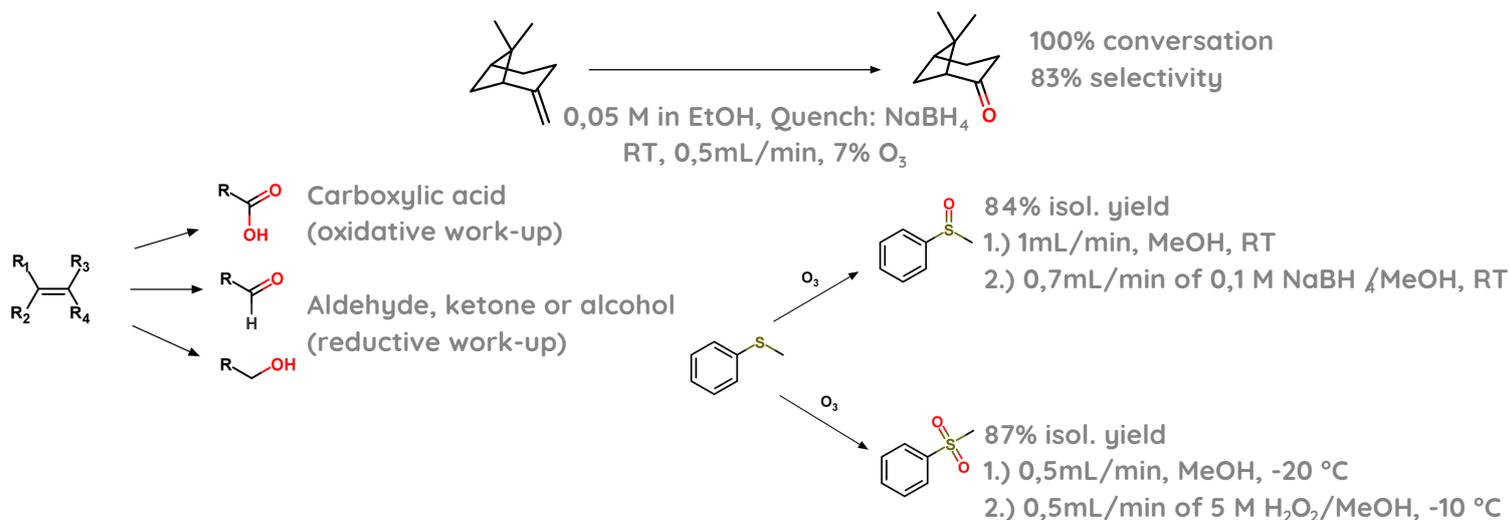


BENEFITS OF DISINFECTING WITH OZONE

Ozone is a commonly used disinfectant around the world, for several reasons:

- Ozone is useful for the destruction of bacteria, viruses, yeast, molds, cysts, mildew, and most other organic and inorganic contaminants. There is no resistance build-up as well.
- Ozone requires short contact time and low dosage to be effective.
- Ozone leaves no unpleasant smells, flavours, chemicals or residual toxins. All residual ozone convert to oxygen naturally within a short time
- Ozone's effectiveness can be measured with an Oxidation Reduction Potential sensor
- Ozone can be generated on site and does not require storage
- Ozone has better penetration capacity for disinfecting materials like textile than chlorine
- Ozone has proven to be effective in air decontamination against SARS coronavirus. [Ozone Disinfection of SARS-Contaminated Areas Kenneth K. K. LAM B.Sc. (Hons), M. Phil. Enviro Labs Limited, 611 Hong Leong Plaza, 33 Lok Yip Road, Fanling, HONG KONG]

Chemical reaction examples:



The Ozone Module™ can be purchased as a stand-alone instrument or part of the IceCube™ Flow Reactor system.

Please visit our website for more information at www.thalesnano.com