

A Quantum Leap in Ozone Water and Air Purification Technology

Pinnacle Ozone Solutions LLC - *Corporate profile*

The Vision

Three Companies had a vision to develop highly advanced ozone generation system together with several other technical advances to address the new contaminants of concern affecting companies under the jurisdiction of the EPA. Existing technologies were not energy efficient and lacked sophisticated computer controls. This technology would bring solutions to water disinfection and other applications requiring large amounts of ozone. The concept was to combine the talents and Intellectual properties of the Plasma Technics Generator together with Guardian Manufacturing expertise in providing integrated solutions to the process industries. Together they could engineer a process system that could be fully automated and self protect itself. It would be rugged, require low power, have a small footprint and endure very harsh atmospheres. The system would be able to replace existing systems and could be built in modules to fit varying client needs. We would eliminate the need for a spare system and ship systems fully assembled and tested. The new concept would only require plumbing connections, one power point and a control input to be ready to go. The system would operate either off of liquid oxygen or separated air

The Work

The Companies envisioned a new entity that would have access to the most advanced designs and process engineers They could have their products UL listed quickly and efficiently by achieving extremely high levels of engineering excellence. The first production models and prototypes were also designed with the same tools and built under a strict ISO certified Quality plan. These products not only worked right out of the box but they exceeded the expectations for low power requirements while maintaining a near 100% power factor. Many technology barriers were broken allowing a single QuadBlock™ to contain not only four ozone generators but also all of the electronics and high voltage components. The new system would operate at high frequencies and constantly perform their own diagnostics. The new product would be equivalent to comparing a new PC to the first computer mainframes. The competition operates with technology originally developed in the 1950's. Just like the old computers these systems take up whole rooms to house equipment Pinnacle can place in a small cabinet. Their technology also generates an annoying screech while the Pinnacle system is quiet.

The Results

Pinnacle Engineers have designed the newest and most efficient integrated ozone systems on the market. We are using Plasma QuadBlock® technology combined with PLC control and touch screen interface. Operating the corona discharge above 20,000 hertz allows these units to be the most efficient ozone producing machines in the industry and offer exceptional reliability without noise.



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