

KleanAire Strategy

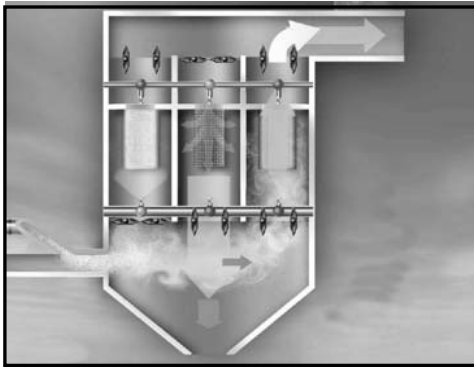
KLEANAIRE PATENTED TECHNOLOGY PROVIDES

pollution control solutions for the power, chemical, steel, paper, incineration and petrochemical industries. Key benefits of the KleanAire solution are:

- **Lower TIC than competitive continuous system designs,**
- **Lower operational cost than competitive designs.**

LOWER MAINTENANCE COST THAN COMPETITIVE DESIGNS.

Higher market growth due to lower introductory costs and higher efficiency.



The Emissions Terminator™

KEY IMPROVEMENTS

- KleanAire Technology has developed, and licenses for use,
- Improve the art of Dry Flue Gas Scrubbing equal to wet scrubber technology by providing,
- Increased scrubber efficiency 99.99%,
- High operational reliability,
- Low capital installation cost,
 - Low maintenance cost,
 - Low operational cost,
- Lower cost for waste disposal through higher efficiency,
- Our system is a highly effective, widely used emissions control process, and
- Emission Credit Revenue.

KLEANAIRE TECHNOLOGY LLC

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THE NEXT GENERATION IN POLLUTION CONTROL SYSTEMS

CONTINUOUS DRY SCRUBBING

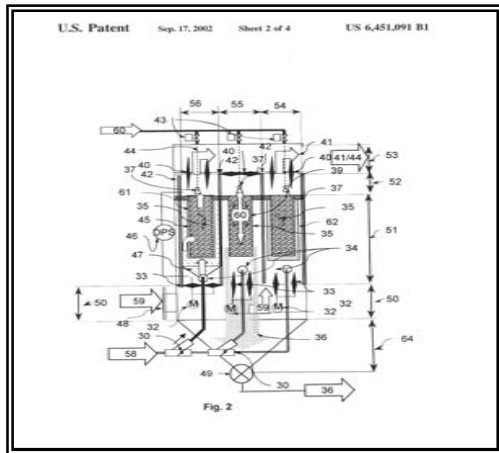
Future Solutions, Now!

*The Most Cost Effective,
Efficient, and Easy To
Maintain Dry Filtration
Ever Patented...*



LOW COST HIGH EFFICIENCY SYSTEMS

The Power Utility Industry has long sought a simple, highly effect solution to control combustion emissions from the ubiquitous coal-fired power plant. The power utilities quest for cost effective, highly efficient, dry pollution control process is answered **NOW!**



THE EMISSIONS TERMINATOR™

The high cost to install and operate efficient air pollution control systems has driven the power utilities to develop a dependency on natural gas and oil to avoid the prohibitive cost of installing wet scrubbers to obtain lower emissions rates. While coal provides the United States with an abundant source of cost effective fuel, it also presents significant obstacles during conversion. The emissions released during combustion contain millions of tons of sulfur dioxide, mercury, dioxins, and particulate

matter. These pollutants are known by the Environmental Protection Agency to present a highly adverse impact to human health and the environment.

THE EFFICIENCY

The KleanAire Technology TERMINATOR™ patented in the United States and under application in over seventy countries is designed to provide utility power companies the ability to use coal as the primary source, without the high cost associated with higher control efficiency. The TERMINATOR™ is a simple device applied within the design of the garden variety Dry Flue Gas Scrubber (DFGS), and it improves the efficiency of the DFGS from 65% to 99.99%. Four nines has always been the control territory of the wet scrubbing technology requiring: exotic metal spray towers, slurry systems, demisters, dewatering, sludge handling, and massive control systems to provide perfect operations. Utilities knowing the two hundred million dollar price tag for the installation of these systems, also understands the substantial power and operating costs. Therefore, they are reluctant to utilize this technology on a large scale.

THE HISTORY

KleanAire EMISSIONS TERMINATOR™ provides a simple and cost effective method to obtain high efficiencies that are based on a reliable, cost effective, and easy to operate and maintain process. KleanAire Technologies recognized that the baghouse filtration system had the potential to obtain very high efficiencies during segments of the operating cycle. KleanAire sought to design a way to maintain this high efficiency region of operation through waste gas diversion and precoating. In 1992, KleanAire's founder investigated this process in a hazardous waste incinerator and obtained efficiencies above 96%. As this process negated complete termination of the waste gas flow, during the cleaning and precoating stages it was deemed an environmental and operational success! It was found that a 35% reduction in sorbent usage was realized with, an efficiency increase from 75% to 96%. The results of two test trials were published in the 1993, Incineration Conference Proceedings, held in Knoxville, TN. KleanAire realized that

the real prize resided in the ability to obtain five to six nine's in efficiency. The next ten years, involved an intensive, conceptual research and development process to obtain a method where the process of waste gas diversion and pre-coating could be applied without interruption to the waste gas flow treatment process.

THE DISCOVERY

Winter of 2001, brought the answer! The discovery of the EMISSIONS TERMINATOR™. The EMISSIONS TERMINATOR™ device utilizes the application of several well known processes. KleanAire's founder combined the filter baghouse, flue gas isolation dampers, and sorbent injection in a new and highly, unique way. Placing filters between two isolation dampers and introducing sorbent into each chamber, with a supply of clean air circumvented the production of the well known cleaning spike. This spike, inherent to all baghouse operations has been known to produce a 10 to 30% efficiency loss. By removing the spike this inefficiency is also removed!

THE PATENT

KleanAire submitted the patent application in February 2002, and received a completed patent from the U.S. Patent Office in September. The KleanAire method and device was found by the U.S. Patent Office to be a highly novel process and accorded it a special prevision. Due to the anticipated positive impact to the national health and the environment, it received a priority examination. KleanAire Technologies received U.S. Patent Number 6,451,091 B1 on September 17, 2002. The KleanAire device and method offers the utility power operator a proven, inexpensive, cost effective way to control their waste gas pollution emissions.

THE CONCLUSION

KleanAire Technologies patented method and device provides the power utility industry a win, win, solution to their environmental control problems. Our method and device will make power plant pollution a thing of the past, reduce operating cost, and generate revenue from the sale of emission credits.