Energy-saving Advanced RTO,
Regenerative Thermal Oxidation System

On 2002, we successfully performed R&D of Advanced RTO System with the support of Korea MOE. On 2004, its advanced technology was appointed as the New Environmental Technology NeT Mark by Minister of Korea Ministry of Environment. On March 2006, we and our partner, SWC Japan Co., Ltd. successfully supplied & installed Advanced RTO System with VOC Concentrator for Gravure Printing Dry Line of TOKKA Co., Ltd. in Saitama, Japan. New orders have been increasing more and more from Japan.

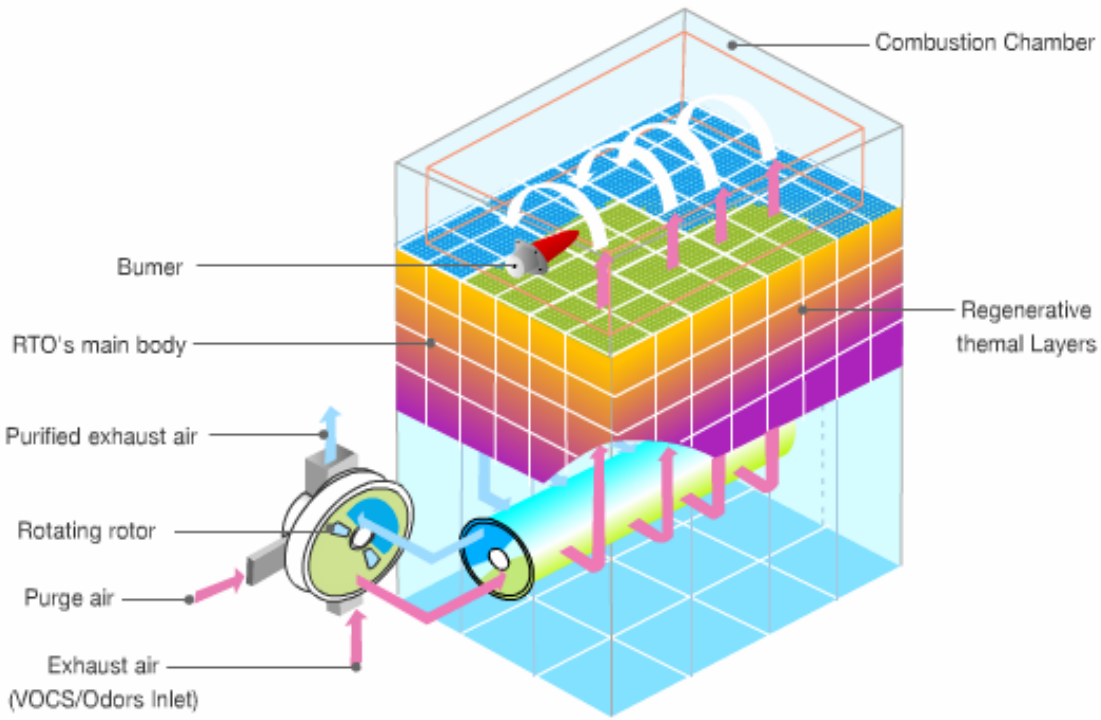
120Nm^3/min

100Nm^3/min

967Nm^3/min

2,250Nm^3/min

Process & Configuration of Advanced RTO System



Futures and Benefits

For more cost effective system to remove the exhaust VOC (volatile organic compounds)/Odor from industrial factories, we developed the unique horizontally rotating & distributing RTO with the square structure, instead of the conventional vertically rotating & distributing RTO with the cylinder structure: The vertical distributing rotor was advanced by the horizontal distributing rotor. The vertical distribution chamber with the cylinder structure was advanced by the horizontal distribution chamber with the square structure. The cylinder type regenerative thermal chamber was advanced by the square type regenerative thermal chamber. The rotor's location, a core component, the built-in internal type vertically at the bottom center area of the system was advanced by the built-out external type horizontally at the lower area of the system. We developed also the unique rotor and the metal seal, providing the excellent durability and the effective sealing performance. We have 7 patents: series 4 patents of Korea, 1patent of China, 1 patent of Japan and 1 patent of USA.

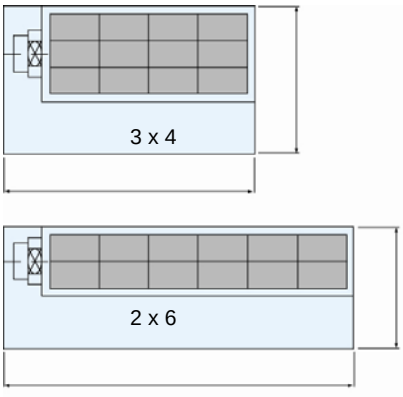
- **High reliable over 97% VOC/Odor destruction removal efficiency with over 94% thermal energy recovery**
- **Available a space-free installation by the excellent flexibility of the system design in dimension, width, height and direction**
- **Economic saving by over 30% downsized system, space and low running cost**
- **Ensure the reliability and the low maintenance cost by the semi-permanent durability of the major components**
- **Easy maintenance of the rotor with the metal seal, key core components by the built-out external type horizontally at the lower area of the system**

Application Fields

• Painting Industry • Coating Industry • Printing Industry • Semiconductor Industry • Chemical Industry
• Pharmaceutical Industry • Paper & Textile Industry • Food Industry • Waste treating Industry etc

Design Flexibility of Advanced RTO System to support space-free installation

Basic Single System Designs:



Dual Parallel System Designs: