



NEW WAVE FOR A CLEARER, EASIER AND MORE INNOVTIVE WORLD

ONLY ONE ADVANCED RTO TECHNOLOGY IN THE WORLD



WHAT WE DO

BOOSUNG E&C is a global leader in providing air pollution control solutions for industries focused primarily on reducing VOC and HAP emissions. We work with our partners to design, develop, manufacture, install, and maintain industry leading pollution control systems. BOOSUNG E&C also specializes in the sourcing and installation of aftermarket solutions to optimize existing technologies. Our aftermarket solutions reduce energy consumption and increase performance to meet current world standards.

BOOSUNG E&C has performed over 120 new and aftermarket projects for some of the top manufacturers in the world. BOOSUNG E&C provides energy audits, process duct designs, capture systems, control system upgrades, burner system management, and upgrades to ensure compliance with current world standards and source testing. Our highly experienced staff assists with the development of equipment specifications and offers training to field staff and maintenance personnel. These services are provided for all thermal oxidation systems, regardless of the manufacturer.

We also keep a robust inventory of spare parts to support the maintenance and repair of most thermal oxidizer systems.





INDUSTRY



Environmental Air Pollution Control Technologies

Boosung E&C offers a broad range of technologies and solutions for air pollution control and product recovery. Whether you require industrial ventilation, hazardous gas and odor control, volatile organic compound (VOC) and particulate abatement, or particle recovery, Boosung E&C can deliver the solution.



Industrial Ventilation Systems

Manufacturing plants and other industrial facilities usually have industry-specific and application-specific requirements for their process air ventilation, fume capture and exhaust, product recovery, and emissions mitigation. These requirements necessitate custom, turnkey solutions that meet or exceed stringent environmental standards.



Energy Saving Technologies

Boosung E&C are sharing our sustainable growth to the future by way of boosting environmental sustainability through the direct reduction of daily carbon footprints on the planet as well as allowing clients for unprecedented incredibly high net gains of cost-cut from the energy cost savings, even without mentioning about the additional benefits from the increase in productivity; in most of the cases, enhanced working conditions due to elimination of polluted drying air leakage to the work area polluted by VOC, etc., which may happen with conventional drying systems.



REGENERATIVE THERMAL OXIDIZER (RTO)

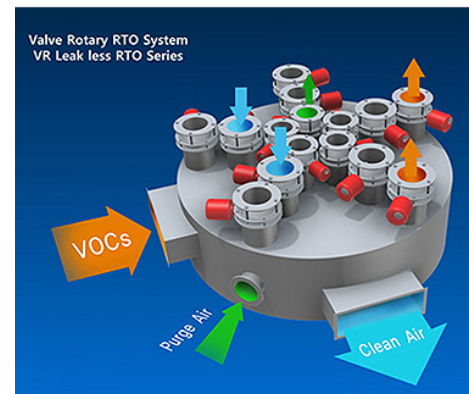
A regenerative thermal oxidizer (RTO) converts volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) to carbon dioxide and water vapor through thermal oxidation. RTOs use regenerative heat transfer to achieve very high thermal efficiencies of over 95% percent, which result in very low operating fuel costs — in some cases, zero. That makes them particularly economical for treating low-VOC-concentration process exhaust streams.

Specially, our “New Valve Control RTO system” is only one technology in the world, which can achieve over 99.8% of VOC elimination efficiency continuously in long term. In general, the existing RTO technology is really difficult to maintain its initial VOC elimination efficiency in long terms (even 1~2years) because of its original system design concept & old technology. That’s why many of end-users have been facing another environmental issue against new updated VOC regulation in all countries recently.

Our New Valve Control RTO system is only one solution for these sensitive market requirements.

Benefits

- New Generation RTO Technology “Valve Control System” (World Technical Patent Registered)
- 100% Perfect Seal / “0%” VOCs Leaking
- Extremely easy & simple “One-Touch maintenance” compared with complicated & difficult maintenance of existing Cylinder Rotary or Disk Rotary RTO system.
- Energy Regenerative Efficiency : Upto 97%
- VOCs Concentration Efficiency : Upto 97%
- RTO ⇒ Elimination Efficiency of VOCs : Upto 99.8%
- Extremely Long & Stable VOCs Efficiency Durability



Features

- System ranging from 20cmm to 1200cmm with single assembled modules
- All system can be customized (Design / Space / Structure)
- Basic System Configuration
- RTO Unit only or RTO Unit with Concentrator system
- Perfect Safety Devices & Safety Programming
- Energy Recovery system for Production machines





CONCENTRATOR

In recent years, more and more people are concerned about the impact of environmental pollution by VOCs (Volatile Organic Compounds) on the human body. Although the movement to regulate VOC emission has been spreading throughout the world with the advance of industrialization, without making an effort there will be no silver-bullet breakthrough. We would like you to take a moment to think what we can do for coexistence of the environment and industrial development.

VOC concentrator can effectively purify and concentrate VOCs laden air stream exhausted from industrial factories. By being combined with incinerator or solvent recovery equipment, both initial and operating costs of the entire VOC abatement system can be drastically reduced

High performance & efficiency

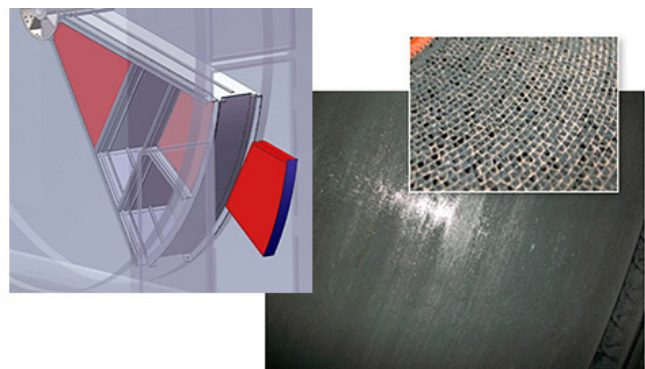
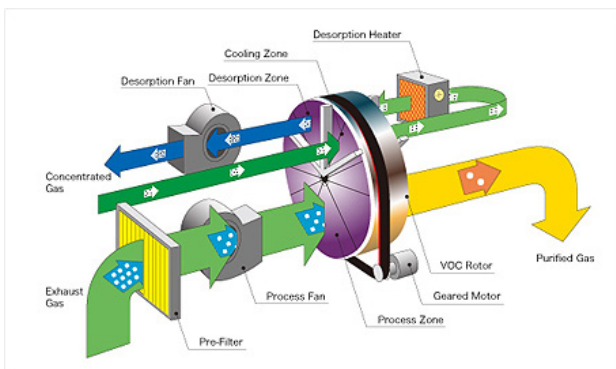
Using High silica zeolites and activated carbons with enormous adsorption capacity allows our VOC concentrator to flexibly treat various kinds of VOCs and work under different conditions of operation

Capability of treating VOCs with high boiling point

Carbon material has a difficulty to treat VOCs with high boiling point due to its desorption temperature limit. In contrast, the characteristics of our zeolite rotors are incombustible and high heat resistance, which enables our VOC concentrator to use the adsorption air with high temperature.

Clean-ability & activation by special heat treatment

Our zeolite rotors through calcining process have come to all inorganic material including the adhesive. Clogging in the rotor element might occur after a certain period of use. But, don't worry!! The rotor is washable in a proper manner to remove accumulated dust. It's even better that our zeolite rotor can be reactivated by heat treatment according to circumstances.





SERVICE



Let BOOSUNG E&C help with the installation of your new asset. We partner with you to provide technical support and engineering expertise. We start early in the buying process to help provide the information and oversight to appropriately plan for this important stage in the lifecycle of your new asset. Our experienced teams have installed BOOSUNG E&C units all over the globe and are available on any size of project. It is our goal to ensure your new investment is properly installed so as to set the stage for maximum reliability throughout the asset's lifecycle.

- **Benefits**

Installation by the original equipment manufacturer ensures the asset is installed based on the original design to allow for the appropriate operation in the future. Achieve milestones and budget with advanced planning and project management guidance.

Safe and high-quality installation ensured with minimal issues during installation process.

You have researched and planned for the new operational. Asset For your facility. Ensure this new investment is commissioned appropriately with the use of BOOSUNG E&C commissioning services. Our experienced and trained technicians review installation and safety requirements prior to the startup of the new asset. Operational targets are aligned with original design to baseline the operational running of the asset. The proper commissioning of your investment Sets The stage for its maximum reliability throughout its lifecycle.

- **Benefits**

Experienced BOOSUNG E&C employees trained in the operational requirements of your new investment set up the unit for proper long term operation. Operational targets aligned with original design to optimize availability, reliability and efficiency of your new investment.

Baseline data recorded to allow for review periodically in the years to come.



BOOSUNG E&C has thousands of operational assets around the world today that rely on BOOSUNG E&C services for asset management. Our experienced and trained service technicians are available for a variety of different service offerings. From emergency repairs to planned service agreements you will realize improved asset availability for your operational needs when you call BOOSUNG E&C services for your needs. Our service technicians are an integral part of helping you optimize your total cost of ownership.

- **Benefits**

Trained and experienced technicians familiar with your operational asset. Allows your own employees to help focus on your plant's requirements. Maximum reliability and asset availability.



REFERENCE



- CON" + R.T.O
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 70,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 70,000m³/h
- CON" + RTO
EGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 78,000m³/h
- CON" + RTO
EGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 90,000m³/hs
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 9,000m³/h
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 21,000m³/h
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 60,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 60,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 87,000m³/h
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 60,000m³/h
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 60,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 72,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 78,000m³/h
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 33,000m³/h
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 30,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 186,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 16,200m³/h
- RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 3,200m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 54,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 70,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 72,000m³/h
- CON" + RTO
REGENERATIVE THERMAL OXIDIZER SYSTEM (Valve system), 42,000m³/h

**MAIN OFFICE
ENGINEERING / R&D**

1402, Centum T-tower
66 Centum Jungang-ro
Haeundae-gu, Busan, Korea

info@boosungenc.co.kr

Tel (82)51-911-1104

Fax (82)51-911-1106

FACTORY

No.4 BLDG, No 599 Xingxian
Road, Jiading Area,
Shanghai, China

102-67, Sanggusilro,
Jeongmi-myeon, Dangjin-si,
Chungcheonnam-do, Korea

NETWORK (OFFICES)

CHINA
TAIWAN
JAPAN
THAILAND
VIETNAM
MALAYSIA
INDIA
INDONESIA

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