

CLEANSWITCH™

Regenerative Thermal Oxidizer (RTO)

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AMERICAS

United States
MEGTEC Systems, Inc.
Telephone: +1-920-336-5715
Toll-free: +1-800-558-2884

Solvent Recovery Division
MEGTEC Systems, Inc.
Telephone: +1-772-567-1320

Brazil
MEGTEC Systems, Inc.
Telephone: +55-19-3885-6116

EUROPE

France
MEGTEC Systems SAS
Telephone: +33-1-69-89-47-93

United Kingdom
MEGTEC Systems, Ltd.
Telephone: +44-1628-59-1700

MEGTEC Environmental Ltd.
Telephone: +44-1257-42-7070

Germany
Sequa GmbH & Co.
MEGTEC Systems KG
Telephone: +49-6181-94040

Sweden
MEGTEC Systems AB
Telephone: +46-31-65-7800

MEGTEC Systems Amal AB
Telephone: +46-532-62900

ASIA - PACIFIC

Singapore
Singapore Sales Branch -
MEGTEC Systems SAS
Telephone: +65-6298-4666

China
MEGTEC Systems (Shanghai) Ltd.
Telephone: +86-21-6769-7878

India
MEGTEC Systems India Pvt. Ltd.
Telephone: +91-20-3231-2877 (78)

Japan
MEGTEC Systems, Inc.
Telephone: +81-78-783-0161

Australia
MEGTEC Systems Australia, Inc.
Telephone: +61-3-9574-7450

www.megtec.com

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MEGTEC Services

EQUIPMENT REBUILDS/OPTIMIZATION

- Dryer rebuilds
 - Controls upgrades
 - Burner/plenum retrofits
 - Air bar/nozzle upgrades
- Oxidizer rebuilds
 - Heat exchanger repair
 - Media replacement
 - Controls upgrades
- Splicer rebuilds
- Engineering studies
 - Mechanical/Electrical
 - CFD modeling
- In-house pilot line testing
- Equipment Relocation

CUSTOMER CARE SUPPORT

- 24/7 TeleCare hotline
- Customized customer care programs
- Customized training programs
- Regional service support

ENERGY MANAGEMENT

- Energy audits and optimization
- Secondary and tertiary heat recovery
- Process & plant heating/cooling
- Air, water, steam, thermal oil

REPLACEMENT PARTS/UPGRADE KITS

- Dryers, oxidizers, splicers
- Replacement parts for equipment:
 - MEGTEC, TEC, Enkel/Amal, MEG, Wolverine, Thermo Wisconsin and others

PREVENTIVE MAINTENANCE

- Equipment upgrades
- Thermocouples/instrumentation calibration
- Summary report
- Component photo library
- Thermal imaging

INSTALLATION SERVICES

- Contractor supervision
- Turnkey installations
- Ductwork and equipment platforms
- Project management

CATALYST SALES & TESTING

- Bead and monolith retrofits to any catalytic oxidizer
- Complete analyses by in-house laboratory
- Periodic testing as required by MACT standards
- Disposal services

ENVIRONMENTAL COMPLIANCE & TESTING

- VOC air compliance assistance/FID testing
- EnviroMonitor® monitoring and reporting system

THERMAL AIR MANAGEMENT

- Air flow dampers
- Burners and burner management systems
- Custom industrial air handling equipment

Make the Switch to Low-Cost Clean Air Compliance



Regenerative thermal oxidizers (RTOs) have the potential to achieve nearly 100% VOC removal. However, most standard units only reach 98%. While flush systems allow higher VOC destruction rates, they add hefty capital cost and complicate control and maintenance. Now there is a better way!

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The bottom line is process knowledge

CLEANSWITCH™

Regenerative Thermal Oxidizer (RTO)



15,000 scfm unit



25,000 scfm unit



50,000 scfm unit



60,000 scfm unit



65,000 scfm unit



90,000 scfm unit

Performance Benefits

The CLEANSWITCH Modular RTO Gives You :

- Effective Regulatory Compliance With 99+% VOC Destruction Efficiency
- Up to 95% Thermal Efficiency to Minimize Fuel Costs
- Up to 20% Lower Electrical Costs
- Sizes up to 142,700 NM3/hr, (90,000 scfm)
- 1–3 day Installation Time
- Trouble-Free Operation for Low Maintenance Costs
- Pre-piped and Prewired
- Skid-mounted Climate-controlled Control House With HVAC Unit
- State-of-the-Art Control System

The CLEANSWITCH Modular RTO from MEGTEC offers 99% VOC Removal

With thermal efficiencies of up to 95%, CLEANSWITCH provides exceptional operating economy. In fact, for many applications the CLEANSWITCH will run in a self-sustaining mode. That means no additional fuel is required to destroy VOCs and achieve clean air compliance. How was MEGTEC able to increase efficiency, durability, and reliability?

99+% VOC Removal

The CLEANSWITCH takes its name from MEGTEC's patented valve that keeps cleaned air totally separate from dirty process exhaust. The valve utilizes a double-air seal. This means the integrity of the valve is maintained for the life of the equipment.

Smooth Process Integration & Operation

The CLEANSWITCH valve design virtually eliminates pressure spikes typical of poppet valve systems. Smooth flow transition between heat recovery chambers eliminates process upsets resulting from pressure changes during a valve switch. This makes the CLEANSWITCH unit applicable for even the most pressure-sensitive processes.

Quality Assurance

MEGTEC directly controls the quality and performance of all our units. We pre-assemble and pre-test modular components in our factory to provide significant savings of time and money during installation and start-up.

Cost-Saving, Flexible Modular Design

The CLEANSWITCH gives you the cost benefits of modular design - with improved performance. In addition, the CLEANSWITCH design retains the flexibility needed to adapt easily to the specific needs of your application. We've been building VOC control systems for more than 30 years. So we understand both the regulations and the needs of the customers we serve. This means you get a system that delivers the optimal solution to both your process and compliance situation.

Standard Features

- Energy Efficient VFD
- Low Pressure Drop Ceramic Media
- Simple, Touch-Screen Controls
- Modem Support

Optional Equipment

- Recirculation Systems
- Hot Side Bypass
- Secondary Heat Recovery

MEGTEC Offers...

Complete Choice

If a regenerative oxidizer is not right for your application, we can provide the optimal equipment for your needs. MEGTEC offers the world's most complete line of VOC oxidation technologies including thermal recuperative, catalytic, and thermal regenerative systems.

Customer-Driven Service

MEGTEC service is the most complete and extensive in the industry. Our worldwide network of strategically placed service centers provides quick response. MEGTEC's Telecare Center provides technical support 24/7, 365 days a year, through a toll-free Hotline. We also maintain a \$6 million spare parts inventory to ensure the rapid response needed to minimize downtime.

CleanSwitch...

The Most Efficient, Cost-Effective and Trouble-Free VOC Removal System You Can Buy.

Six Sigma Quality

MEGTEC Systems uses DFSS (Design for Six Sigma) methodology to ensure the quality of our equipment and services.

MEGTEC Products

DRYING & CONDITIONING EQUIPMENT

- Air flotation dryers
- Roll support dryers
- Thru-air dryers
- Catenary dryers
- Web cooling and conditioning systems

ROLL & WEB HANDLING EQUIPMENT

- Match speed splicers/pasters
- Zero speed splicers/pasters
- Infeed and web guiding systems
- Roll handling systems
- Solvent recovery & distillation systems

VOC EMISSION CONTROL EQUIPMENT

- Integrated/separate oxidizers
- Regenerative thermal oxidizers (RTOs)
- Recuperative catalytic oxidizers
- Recuperative thermal oxidizers
- Biological treatment systems