

VOCs Treatment Equipment

Product Brochure

MUSI Technology - Spray Coating Specialist

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Product Overview

MUSI VOCs (Volatile Organic Compounds) treatment equipment removes harmful organic emissions from coating, printing, chemical, and pharmaceutical processes. We offer the full range of proven technologies - thermal oxidation (RTO), catalytic oxidation (RCO), adsorption (activated carbon, zeolite rotor), and combined systems for low-concentration high-volume streams.

Capabilities

RTO - Regenerative Thermal Oxidizer

Thermal destruction at 760-820 deg C with ceramic honeycomb heat recovery. $\geq 99\%$ destruction efficiency, $\geq 95\%$ heat recovery.

RCO - Regenerative Catalytic Oxidizer

Catalytic destruction at 250-350 deg C using precious metal catalyst. Lower fuel consumption.

Zeolite Rotor Concentrator

Hydrophobic zeolite rotor concentrates 10-20x for downstream RTO/RCO.

Activated Carbon Adsorption

Polishing stage or emergency backup.

Combined Systems

Zeolite + RTO combined for VOC streams less than 500 mg/m³ and greater than 50,000 m³/h.

CEMS Integration

Continuous Emission Monitoring System with FID, NDIR, and zirconia analyzers.

Product Range and Options

RTO 2-Chamber

For batch operations, simple design. 92-95% heat recovery.

RTO 3-Chamber

Continuous operation, no purge spike. 95-97% heat recovery.

RTO 5-Chamber

Highest recovery 97-98%. For large-scale continuous coating plants.

RCO

Lower temperature, lower fuel cost. Requires catalyst maintenance.

Zeolite Rotor + RTO

Standard combo for low-conc high-volume.

Activated Carbon

Single-pass or regenerative.

Typical Applications

- Spray coating exhaust (automotive, appliance, furniture)
- Printing facility solvent emissions
- Chemical manufacturing process vents
- Pharmaceutical solvent recovery
- Plastic compounding off-gas
- Petrochemical loading rack vapor recovery

Performance Specifications

Standard configuration ranges. Custom designs available on request:

Parameter	Range / Value
Air volume	5,000 - 500,000 m ³ /h
RTO destruction efficiency	>=99% (VOC, BTEX)
RTO heat recovery	>=95% (ceramic honeycomb)
RTO combustion temperature	760-820 deg C
RCO operating temperature	250-350 deg C
Zeolite concentration ratio	10-20x
Outlet VOC concentration	less than 20 mg/m ³
Fuel options	Natural gas, LPG, diesel (RTO)
Operating pressure	-2 to +3 kPa
Compliance	China GB, EU IED, US EPA, World Bank
CEMS connectivity	Local EPA platform integration
Materials	Carbon steel, SS304/316, ceramic honeycomb

Why Choose MUSI

Full Technology Portfolio

RTO, RCO, zeolite, carbon - we recommend the right tech for your specific gas.

Energy-Optimized RTO

Our 3-chamber and 5-chamber RTOs deliver $\geq 95\%$ heat recovery.

Regulatory Compliance Built-In

Documented destruction tests, CEMS integration, reporting templates.

About MUSI Technology

Changzhou MUSI Environmental Technology Co., Ltd. is a leading Chinese manufacturer of industrial spray coating equipment with many years of dedicated experience serving global manufacturers. We design, engineer, manufacture and install complete coating production lines for automotive, home appliance, metal hardware, furniture, heavy machinery, aluminum profile, and energy storage industries.

Indicator	Value
Manufacturing Facility	28,000 sqm modern plant in Changzhou
Employees	200+ engineers, technicians, and skilled workers
Quality Systems	ISO 9001 / ISO 14001 / ISO 45001 certified
Intellectual Property	18 corporate certifications, 12 invention patents, 64 utility patents
Global Reach	36+ countries served, 500+ active clients
Lines Delivered	800+ complete coating production lines
R&D Investment	8% of annual revenue reinvested in R&D

Contact MUSI Technology

For inquiries, technical questions, or to request a custom quotation, please contact our sales engineering team:

Channel	Details
Sales Email	lin@coating-spray.com
Phone (Sales)	+86 181 5173 1332
WhatsApp	+86 181 5173 1332
Website	https://coating-spray.com
Headquarters	Wujin Industrial Park, Changzhou City, Jiangsu Province, China
Business Hours	Monday-Saturday 08:30-18:00 (GMT+8)
Response Time	Sales inquiries within 24 hours, technical proposals within 5-7 business days

How We Engage

Step 1 - Discovery

Share workpiece specifications, target throughput, color count, facility layout, and budget. Engineers respond with technical questions within 24 hours.

Step 2 - Process Simulation

We model your line in 3D, simulate cycle time and energy consumption, and provide a baseline ROI analysis.

Step 3 - Proposal and Quotation

Detailed technical proposal with layout drawings, equipment list, payment terms, and delivery schedule.

Step 4 - Manufacturing

Custom fabrication in our 28,000 sqm facility under ISO 9001 QMS. Progress photos shared via customer portal.

Step 5 - Factory Acceptance Test

You witness or remotely observe pre-shipment testing.

Step 6 - Site Installation

MUSI engineers travel to your site for installation, commissioning, and operator training.

Step 7 - Aftersales Support

Warranty support, remote diagnostics, preventive maintenance, and spare parts supply via our global network.