

Thermal Desorption Solutions

Republic Services provides sustainable waste solutions for recoverable organic materials.



REPUBLIC
SERVICES

Sustainability in Action



Republic Services is a leader in environmental solutions. Our Thermal Desorption unit (TDU) offer a more sustainable and cost-effective alternative to incineration, stabilization and cement kilns. With the recent addition of a container shredder, we can now offer non-bulk container processing including drums (steel, poly, fiber or combination), cubic yard boxes, gaylords and steel-framed totes for a variety of materials.

We accept a variety of materials in the form of solids, liquids, sludge, debris or a combination.



600+ federal and state waste codes accepted



Innovative recycling solutions



Advanced treatment technologies



Transparent pricing



Hazardous and non-hazardous waste disposal



Compliance and safety

Waste Types Accepted

- Organic-bearing waste from petroleum, petrochemical, ethylene processing and other manufacturing
- Organic-bearing liquids, sludges and solids
- Metal-bearing catalysts
- RCRA listed (K171 and K172), characteristic and non-hazardous catalyst
- RCRA-exempted (HSM) metal-bearing catalyst
- Fuels (high and low BTU content)
- Paint sludges
- Paint cans and Metal debris $\leq 0.25''$ thickness
- High halogen content (up to 100%)
- Debris with organics
- Fuel spill clean ups
- Flammable and paint commodity packs

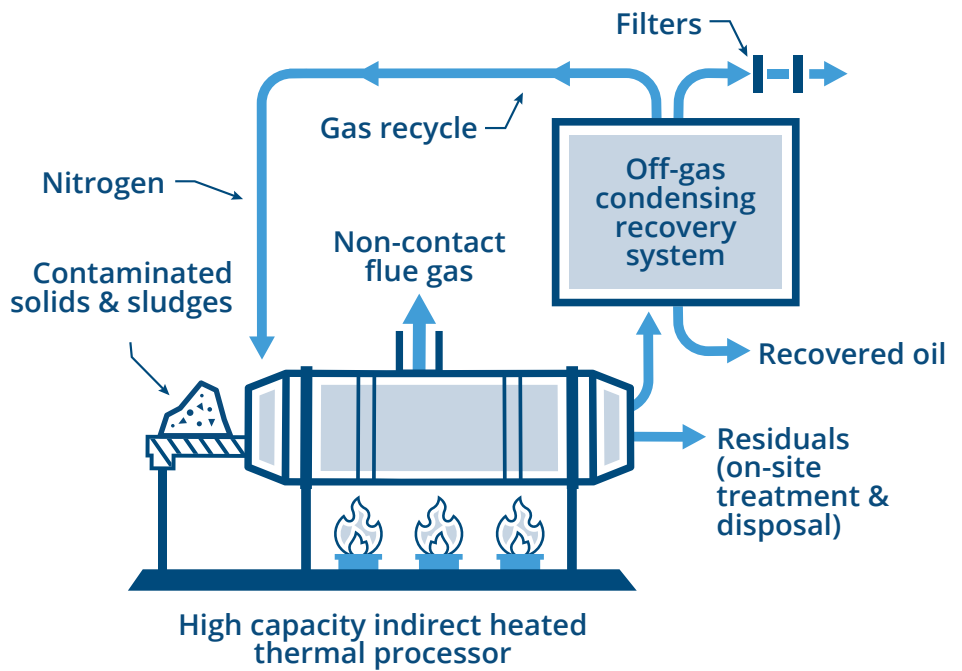


Thermal Desorption

Thermal desorption indirectly heats waste at temperatures ranging from 700°F to 1,100°F.

How it works:

Contaminants are volatilized (boil) by indirect heating and then elevating the temperature in an oxidizer to thermally destroy them and control emissions.



Container Shredder

The thermal shredder process is essential for recycling and processing scrap materials, ensuring an efficient and environmentally friendly waste process. Drums and containers are fed into the shredder for processing.

How it works:

- 1. Loading:** The materials are loaded into the shredder using a hydraulic arm, crane or conveyor belt.
- 2. Shredding:** The material is roughly cut and then ground, with the shredder's rotating roller or blades.
- 3. Waste Outputs:** All materials are sorted by solids and liquids and receive treatment through the TDU if they are eligible. All other materials are managed compliantly onsite.

Regulation: Our shredder and TDU are equipped with emission control systems that ensure compliance with the Clean Air Act regulations.

Value of Our Thermal Desorption and Shredder

- Lower cost alternative for waste previously shipped to incineration
- Regulatory compliance – waste minimization and resource recovery
- Environmentally friendly and sustainable

Visit RepublicServices.com or call
800.592.5489 for more information, or
contact your Sales Representative.

