



Regulations and Permitting Requirements

The following regulations pertain to proper operation of animal incinerators (crematoriums) facilities with the intent of cremating animal remains for return of ashes to an owner, beneficial reuse by land application, or disposal as solid waste.

Air Regulations

Kentucky regulations do not specifically refer to animal carcass incineration. However, animal carcasses are classified as municipal solid waste for purposes of incineration and emission calculations.

- Owners\operators of municipal solid waste incinerators must comply with 401 KAR 59:021
- Owners and operators of animal crematoriums must take the utmost care and consideration to not allow the emission of potentially hazardous matter or toxic substances to be emitted under 401 KAR 63:020.
- The owner/operator is required to practice good air pollution control practice for minimizing emissions per 401 KAR 50:055, Section 2(5)).
- The owner/operator must meet particulate matter emission limits in 401 KAR 59:010 New Process Operations
- Owners\operators should submit the DEP 7039A form to the Kentucky Division for Air Quality per 401 KAR 52:070 Designated Sources.

Solid Waste Regulations

Animal cremation facilities are classified as a solid waste disposal facility and therefore must apply for a solid waste permit with possible prior hearing, local fiscal court approval per KRS 334.40-310 & 315. You should contact your local solid waste coordinator for details. Ash remains from incinerated carcasses are to be disposed of as solid waste or reused in land application. Permission must be obtained prior to land application of ash remains by submitting the form DEP 7098 Permit-by-Rule Beneficial Reuse to Ky Division of Waste Management.

Construction and Operation Prohibition

Prior to purchase of an incinerator ensure compliance with KY regulations.
Prior to construction or installation of an incinerator, a permit or registration application must be submitted to KY Division for Air Quality and KY Division of Waste Management for approval.

Best Management Practices

- Animal cremation (incinerators) shall not be used to combust other materials other than deceased animals without proper permission from the Division for Air Quality and Division of Waste Management. Incinerating other materials could subject the unit to other regulatory requirements.
- Incinerator units should be equipped with an auxiliary fuel source (propane, natural gas, diesel, or fuel oil).

- The unit should be equipped and operate with either a dual chamber combustion or an afterburner with a minimum operating temperature of 1000 °F
- Incinerators should have a residence time for combustion gas, in the secondary chamber or afterburner, of at least one second
- The incinerator should provide the distribution of heat evenly to ensure complete waste destruction
- The incinerator should be able to monitor temperatures of the combustion chamber(s)
- The incinerator should be operated in a manner as to not create emissions that cause 10% opacity or greater, unless during periods of startup or shutdown
- The incinerator shall be operated in a manner as to not produce emissions that cause objectionable odors or exceed air quality standards outlined in 401 KAR 53:010
- The operator of the incinerator should be trained on proper operating procedures

Purchasing Recommendations

1. **Sturdiness:** Choose a unit that is able to operate under heavy loading conditions and withstand high operating temperatures
2. **Capacity:** Estimate the expected daily input rate and consider animal size when calculating the required incinerator's capacity
3. **Placement:** Chose a location that allows for convenient use. Avoid potential problems:
 - a. Locate operations downwind from neighbors
 - b. Support the unit on a concrete slab
 - c. Maintain clearance between the stack and flammable structures/sources

For further information, contact:

- Kentucky Department of Environmental Protection Compliance Assistance Program
502-782-6198
envhelp@ky.gov
- Division for Air Quality
502-564-3999
www.air.ky.gov
- Division of Waste Management
502-564-6716
waste@ky.gov

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