



# Louisville Metro Air Pollution Control District

## Control Device Permit Application Form AP-3000

### Absorber

**Deliver application to:**

701 W. Ormsby Ave. Suite 303  
Louisville, KY 40203

(502) 574-6000  
FAX: (502) 574-5137  
[www.louisvilleky.gov/apcd](http://www.louisvilleky.gov/apcd)  
[airpermits@louisvilleky.gov](mailto:airpermits@louisvilleky.gov)

Plant Name:	Plant ID:
Date of construction, modification, installation, or operation:	Process equipment associated with this control equipment:

Equipment Description	Control ID #	
Manufacturer:	Model:	
Description of Absorbent:		
Airflow:	Removal Efficiency: %	
Describe how the removal efficiency was determined: <i>(if other than Manufacturer's specification, include documentation supporting the claimed efficiency)</i>		
Volume of absorbent:	Expected replacement frequency:	
<b><i>Attach a copy of the manufacturer's spec sheets for the equipment with this application</i></b>		
<i>List the contaminants in the waste stream that are removed by the absorbent</i>		
Contaminant	CAS # (if applicable)	Gas stream concentration

## **Instructions for Absorption Systems**

### **Form AP-3000**

Adsorption is a control where gaseous pollutants are extracted from gas phase and concentrated at the surface of a solid or liquid.

#### **General Information**

**Plant Name** Enter the plant name.  
**Plant ID #** This is the identification number assigned to the source by the District. If this application is for a new source for which an ID has not been assigned, leave this blank.

#### **Equipment Description**

**Manufacturer** Enter the name of the company that manufactures the adsorption equipment.  
**Model** Enter the model number of the equipment to be installed.  
**Description of Absorbent** Describe the active absorption medium used in the system. If the material is not described in the manufacturer's spec sheet for the equipment, include separate manufacturer's data for the absorption medium.  
**Airflow** Enter the mean volumetric flow rate of the gas stream through the absorber in actual cubic feet per minute.  
**Removal efficiency** Indicate the claimed removal efficiency of the gas stream contaminants. If this varies for various components of the gas stream, specify details in the contaminant list section.  
**Efficiency determination** Indicate how the destruction efficiency was determined. (*e.g.* manufacturer's specification, calculation, stack test, *etc.*). Include appropriate documentation to support removal efficiency claims.  
**Volume of absorbent** Enter the volume of the absorbent material.  
**Replacement frequency** Enter how often it is expected that it will be necessary to replace the absorption medium.  
**Contaminant list** List the materials that are removed from the airstream by the absorber. If a CAS registration number exists for the material, list that as well. Finally, list the typical concentration of the contaminant in the exhaust gas stream.