

AERMOD View™

Gaussian Plume Air Dispersion Model

Technical Specifications

AERMOD View is an interface for the AERMOD, ISCST3, and ISC-PRIME US EPA air dispersion models.

AERMOD

Parameter	Description
Model Name	AERMOD
Developed By	AERMIC - (American Meteorological Society (AMS) and United States Environmental Protection Agency (US EPA))
Model Type	Steady-state Gaussian plume air dispersion model
Range	Up to 50km from the source
Atmospheric Stability Model	Planetary boundary layer theory, turbulence scaling concepts
Wind Field	Homogeneous
Release Types	Buoyant or neutrally buoyant plumes
Emission Types	Constant or time-varying, planned or fugitive
Atmospheric Chemistry	NOX to NO2 and SO2 decay
Source Types	Point, area, volume, open pit, line*, flare*
Meteorology	Hourly surface and upper air data (processed by AERMET) Minimum Requirements for AERMOD Surface Meteorological Data File
Terrain	Flat or elevated (terrain processed by AERMAP)
Receptors	Several types of grids (Cartesian, polar) and discrete receptors
Other Options	Building downwash (modeled by BPIP-PRIME)
Regulatory Status	Preferred US EPA regulatory model for near-field applications

System Requirements

This product is a Microsoft Windows-based program that can be installed in the following Windows operating systems:

- 32-bit and 64-bit Operating Systems
- Windows 10
- Windows 8 & 8.1
- Windows 7 (Home Premium, Professional, and Ultimate Versions)

Minimum requirements:

- An Intel Pentium 4 processor (or equivalent) or higher
- At least 2 GB of available hard disk space
- 1 GB of RAM (2 GB recommended)

CALPUFF View™

Puff Air Dispersion Model

Technical Specifications

CALPUFF View is an interface for the CALPUFF modeling system. See below the technical specifications for this model:

Parameter	Description
Model Name	CALPUFF
Model Type	Non-steady state Gaussian Puff model
Range	200-300km from the source
Time Step	1-hour (Version 5.8), Variable down to the second (Version 6 & Version 7)
Terrain	Elevated, processed by TERREL
Building Downwash	Modeled by BPIP or BPIP-PRIME
Source Types	Point, area, volume, line, flare (V7 only), road (V7 only)
Meteorology	Hourly surface, upper air and precipitation data and/or prognostic data (e.g. MM5 or WRF)
Wind Field	Three dimensional
Release Types	Buoyant or neutrally buoyant plumes
Emission Types	Constant or time-varying, planned or fugitive
Atmospheric Chemistry	MEOPUFF II, RIVAD/ARM3, SOA, Radiological decay, ISORROPIA, and user-specified transformation rates
Regulatory Status	Preferred US EPA regulatory model for long-range and visibility applications. Also used for complex wind field scenarios

* Pseudo source types

System Requirements

This product is a Microsoft Windows-based program that can be installed in the following Windows operating systems:

- 32-bit and 64-bit Operating Systems
- Windows 10
- Windows 8 & 8.1
- Windows 7 (Home Premium, Professional, and Ultimate Versions)

Minimum requirements:

- 2.4GHz processor or faster
- At least 20 GB of available hard disk space
- At least 2 GB of RAM

<http://www.weblakes.com/products/aermod/specs.html>

<http://www.weblakes.com/products/calpuff/specs.html>