



EXHAUST GAS DISPERSION IMPROVEMENT

VG Engineering offer custom Advanced Dilution Nozzle assemblies for a wide range of applications as a cost effective and unobtrusive alternative to the requirement of tall exhaust stacks normally used to disperse gases containing pollutants and noxious particulates.

To compensate for the disadvantages of a short stack VG Engineering offer our Patented Advanced Dilution Nozzle that incorporates a unique 3-Dimensional design configuration to induce ambient fresh air into the flow to decrease the exhaust particulate concentration and accelerate the exhaust gases to a higher altitude before dispersal into the atmosphere.

As part of the design analysis we model the local topography and structures to produce pollutant level fallout predictions at various receptor locations using Lakes Environmental AERMOD™ View software based on the dispersion source location and various local seasonal meteorological conditions.

The exact configuration of the stack and Advanced Dilution Nozzle for each project is based on the air pollution dispersion analysis results, EPA environmental standards and client requirements.

Features include:

- Improved dispersion in the local environment
- Fast, easy installation
- Low cost
- Low visibility
- Weather resistant protective coatings
- Lifting and mounting points
- No scheduled maintenance

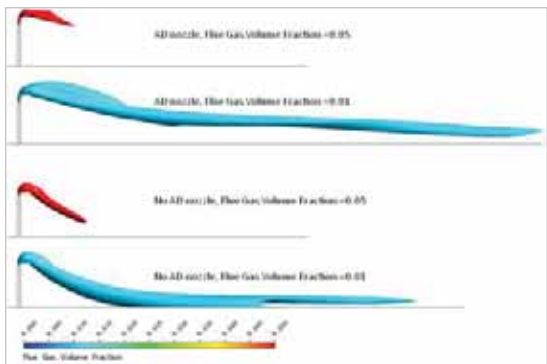
Options:

- Removable access panels
- Supporting structures, access ladders (as required)
- Stainless steel / aluminum construction

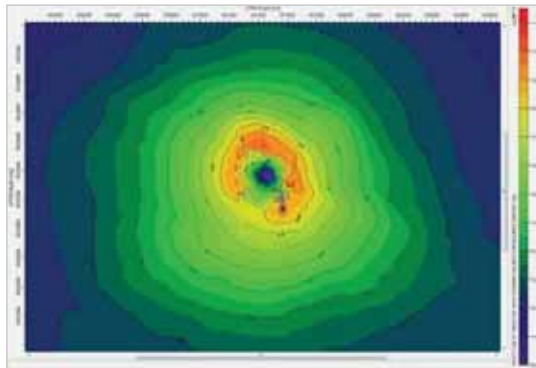


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The VG Engineering Advanced Dilution Nozzle is an innovative patent pending solution for environmental dispersion issues where height restrictions or cost prevent traditional tall stack installation.



Example of the reduction in low level concentration and increased dispersion of exhaust particulates and gases



Plot of dispersion concentration levels from the source

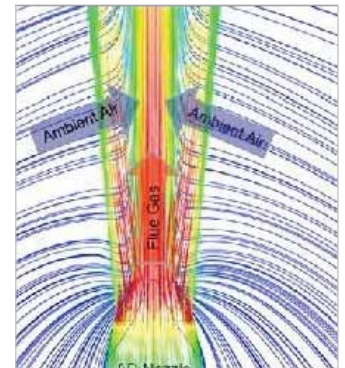


Illustration of the basic concept of the Advanced Dilution Nozzle Design



IDEAL FOR NEW, EXISTING, RETROFIT AND UPGRADE PROJECTS

APPLICATIONS INCLUDE: POWER PLANTS | CONCRETE BATCHING PLANTS | PETROCHEMICAL PLANTS | WATER TREATMENT PLANTS
LABORATORIES | FOOD PROCESSING FACILITIES | TEST FACILITIES

