

Diesel Exhaust

CUSTOM DIESEL EXHAUST SYSTEMS

STROBIC AIR 



DIESEL EXHAUST SYSTEMS

Emergency diesel generators serve as a contingency power supply solution in environments where power failures are catastrophic. These diesel generators require routine testing to ensure they are ready to rapidly start producing power within seconds of power supply lapses to ensure continuous operations. Both testing and operation of diesel generators poses a recurring risk of diesel fume re-entrainment into occupied spaces through ventilation systems. Re-entrainment of diesel exhaust poses severe health risks, odors, and can result in operational disruption. Strobic Air Diesel Exhaust Systems form a custom solution to address this issue by diluting diesel exhaust with ambient air and discharging at high velocity. This ensures the plume is diluted and expelled from nearby building intakes providing a safe and effective resolution to the hazards of diesel generator exhaust fume re-entrainment.

PERFORMANCE BENEFITS

- **Prevents Re-entrainment** high plume momentum and controlled dilution reduce the risk of exhaust returning to outdoor air intakes, doors, windows, or nearby buildings.
- **Odor Control at Intakes** Rapid dilution and elevated discharge minimize ground level odor concentrations and reduce nuisance concerns during generator operation and testing.
- **Generator Compatibility** Systems are designed to avoid adverse back pressure, protecting generator output, reliability, and performance in emergency power applications.
- **Low Vibration and Noise** with direct drive configurations and balanced assemblies that reduce vibration transmission into the building and lower sound levels at the property line.
- **Designed with Aesthetics** in mind using low profile configurations that integrate cleanly into congested rooftops where tall stacks are impractical or architecturally undesirable.

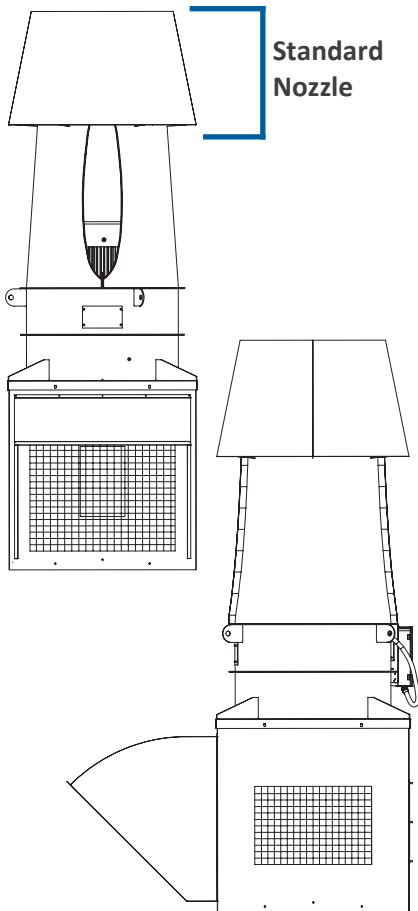


CONFIGURATION OPTIONS

- **Standard high temperature systems** rely on high temperature rated materials and coatings applied to both the fan and plenum to withstand extreme exhaust temperatures without dilution.
- **Diluted high temperature systems** reduce exhaust temperature and control plume behavior by drawing large volumes of ambient air into the plenum to dilute the exhaust stream before discharge.

DIESEL EXHAUST PERFORMANCE

- Operating conditions: intermittent or continuous.
- Temperature Range: Up to 1200°F (649°C).
- Discharge performance: Dilution and controlled discharge to reduce re-entrainment risk and protect nearby intakes.



STANDARD HIGH TEMP CONFIGURATION

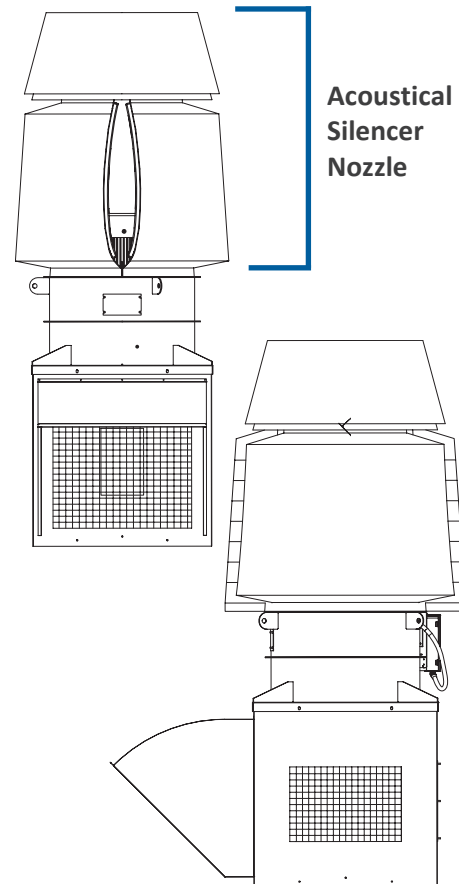
**Standard Nozzles are only available for the Standard High Temperature Configuration*

DIESEL EXHAUST INDUSTRY ENVIRONMENTS

- Hospitals
- Higher Education
- Laboratories
- Data Centers
- Mission-Critical Environments

COLLABORATIVE ENGINEERING

- **Application driven system design** tailored to generator size, exhaust temperature, and site constraints.
- **Dedicated engineering team** provide knowledgeable support from design to installation to simplify system integration and operation.
- **Material and configuration flexibility** support a wide range of diesel exhaust requirements.
- **Lifecycle focused engineering** emphasizes durability, serviceability, and long term performance to reduce maintenance burden and operational risk over the life of the system.
- **Design approach focused** on minimizing future modifications or retrofit work after installation.



DILUTED HIGH TEMP SYSTEMS

**Acoustical Silencer Nozzles are only available for the Diluted High Temperature Configuration*

SPX ENGINEERED AIR MOVEMENT

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