



AZ PURIFIERS™ AND PURIMUFFLERS™

Reduce harmful emissions across a variety of demanding environments

The AZ family of Purifiers and Purimufflers (AZ & AZC models) are diesel oxidation catalysts (DOCs) that reduce carbon monoxide build-up. They also cut exhaust odor by reducing hydrocarbons and soluble organics of emitted particulates – decreasing particulate matter (PM) emissions, exhaust opacity and exposure to known diesel toxins.

Performance across a wide range of severe applications

Demanding applications require products that outperform general aftermarket grade DOCs. The AZ product family from CDTi provides superior emissions control, noise attenuation and lower exhaust restriction over the broadest range of demanding diesel applications:

- Mining and tunneling
- Earth moving and construction
- Power generation
- Heavy industrial applications
- Urban and school buses
- Highway trucks

The AZ family of Purifiers and Purimufflers can also be sized and applied to stationary engine applications for RICE NESHAP compliance.

CDTi's AZ product family works with almost all fuel types. They work best on lower sulfur fuels (<50ppm) but are also compatible with higher sulfur contents (50-500ppm). These units can also be used with biodiesel as well as emulsified diesel fuels.

Unique catalyst technology provides exceptional emissions reduction

CDTi's AZ product family uses high-performance ceramic monoliths, coated with advanced precious metal-based catalysts and packaged in a stainless steel housing. They oxidize carbon monoxide (CO) and hydrocarbons (HC) to form harmless carbon dioxide and water. AZ products from CDTi typically reduce the total PM emissions by 25-40% - oxidizing the soluble organic fraction of the particulate.

CDTi also provides a broad range of DZ Purifiers and Purimufflers - incorporating metallic foil substrates that are beneficial for heavy industrial applications.



Organization	Applicability
U.S. Environmental Protection Agency (US EPA)	<ul style="list-style-type: none"> – 20-40% PM reduction for select mobile source applications (varies based on application and configuration) – HC reduction of 50-75% – CO reduction of 40-60% – Toxic polyaromatic hydrocarbon (PAH) reduction of 85%
Swedish Environmental Zones	– Certified
UK Energy Saving Trust	– Approved
Transport Energy Clean-up Programme	– On-road vehicles



AZ Purifiers and AZ Purimufflers combine performance with durability

Heavy-duty family of AZ Purifiers™ and AZ Purimufflers™ (AZ and AZC models)

Heavy-duty AZ Purifiers are ideal for applications requiring catalyst removal for equipment maintenance and engine-out smoke measurements - including buses and highway trucks. The AZ Purifier is also ideal for applications where there is insufficient room for the installation of an integrated converter muffler.

AZ units consist of a removable catalyst center body with separate inlet and outlet cones - allowing easy installation into a variety of pipe sizes. Its sections connect using machined flanges with sealing gaskets - secured with quick release v-band clamps. Heavy-duty AZ Purifiers can also be combined with DMS and DMXS-II add-on silencers (see our catalog).



When purifiers cannot be used due to space restrictions or exhaust backpressure limitations, CDTi also offers Heavy-duty AZ Purimufflers - integrated catalytic mufflers. AZ Purimufflers provide extremely rugged construction, exceptional noise attenuation and low exhaust backpressure.

Severe-duty family of AZ Purifiers™ and AZ Purimufflers™ (AZ and AZC models)

For the most extreme operating environments, CDTi's Severe-duty AZ Purifiers and Severe-duty AZ Purimufflers combine durable performance with peace of mind.

The Severe-duty AZ family integrates the AZ catalyst into an insulated double wall, heavy 14- and 16-gauge, 304 series stainless steel design. Their efficient insulation maximizes catalyst performance while reducing external skin temperature - reducing heat radiation that can harm electronically-controlled engines, hydraulic lines or workers in close proximity.

The Severe-duty AZ Purimuffler option combines these features with a catalytic muffler - affording 12-15 dB(A) sound attenuation and low exhaust backpressures (typically less than 20" of water).

CONTACT THE EMISSIONS COMPLIANCE SPECIALISTS

For over 30 years, we've been providing verified and cost-effective emissions solutions for severe-duty vehicles and equipment. We understand the need to run equipment cost-effectively may be universal, but that each customer's requirements are unique.

CDTi products are designed to offer ease of installation, peak performance and a long service life. They are stringently tested at both our in-house testing facility and outside testing labs. Each CDTi unit is manufactured in an ISO 9001 approved facility.



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