



Cat® Clean Emissions Module (CEM) for 3516C HD U.S. EPA Tier 4 Final

Caterpillar is leading the power generation marketplace with power solutions engineered to deliver unmatched performance, reliability, durability, and cost-effectiveness.

General Description

The Cat® CEM has been designed to work exclusively with the Cat 3516C HD generator set. The CEM consists of a combination of diesel oxidation catalyst, selective catalytic reduction technology and ammonia oxidation catalyst to meet Tier 4 Final emission standards.

Features

- Diesel oxidation catalyst (DOC) for particulate matter (PM) and hydrocarbon (HC) control
- Selective catalytic reduction (SCR) for NO_x control SCR system features air-assist diesel exhaust fluid (DEF) injection
- Ammonia oxidation catalyst (AMOX) for ammonia slip control
- Removable insulation blankets to reduce radiated heat and maintain exhaust temperatures

- Optimized urea mixing and distribution tunnel
- Integrated sound attenuation chambers
- Service access to key components
- Dual 10-inch Cat flange exhaust inlets
- Dual 12-inch Cat flange exhaust outlets
- Designed to work exclusively with the Cat 3516C HD generator set and dosing cabinet

Specifications

- Fuel requirements
 - USLD required (15 ppm sulfur content)
- Diesel Exhaust Fluid (DEF) requirements
 - ISO 22241
- Dimensions
 - Length: 133.3 in (3385 mm)
 - Width: 88.9 in (2258 mm)
 - Height: 35.2 in (893 mm)
- Weight 4550 lbs (2064 kg)



Diesel Exhaust Fluid (DEF) Consumption

% Load	Mission Critical 2500 ekW		Standby 2500 ekW		Prime 2250 ekW		Continuous 2050 ekW	
	gal/hr	L/hr	gal/hr	L/hr	gal/hr	L/hr	gal/hr	L/hr
100%	13.4 gal/hr	50.7 L/hr	13.4 gal/hr	50.7 L/hr	11.6 gal/hr	43.9 L/hr	10.4 gal/hr	39.4 L/hr
75%	9.2 gal/hr	34.8 L/hr	9.2 gal/hr	34.8 L/hr	7.9 gal/hr	29.9 L/hr	6.6 gal/hr	25 L/hr
50%	4.8 gal/hr	18.2 L/hr	4.8 gal/hr	18.2 L/hr	4.1 gal/hr	15.5 L/hr	3.3 gal/hr	12.5 L/hr
25%	2 gal/hr	7.6 L/hr	2 gal/hr	7.6 L/hr	1.8 gal/hr	6.8 L/hr	1.4 gal/hr	5.3 L/hr

% Load	Mission Critical 2000 ekW		Standby 2000 ekW		Prime 1825 ekW	
	gal/hr	L/hr	gal/hr	L/hr	gal/hr	L/hr
100%	10.1 gal/hr	38.2 L/hr	10.1 gal/hr	38.2 L/hr	8.9 gal/hr	33.7 L/hr
75%	6.6 gal/hr	25 L/hr	6.6 gal/hr	25 L/hr	5.6 gal/hr	21.2 L/hr
50%	3.5 gal/hr	13.2 L/hr	3.5 gal/hr	13.2 L/hr	3.2 gal/hr	12.1 L/hr
25%	1.6 gal/hr	6.1 L/hr	1.6 gal/hr	6.1 L/hr	1.5 gal/hr	5.7 L/hr

www.Cat-ElectricPower.com

©2015 Caterpillar
All rights reserved.

Materials and specifications are subject to change without notice.
CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow", the
"Power Edge" trade dress as well as corporate and product identity used
herein, are trademarks of Caterpillar and may not be used without permission.