Cummins Advantages

Aspect	Cummins RECD	Local RECD
Manufactured By	Cummins Emissions Solutions part of Cummins Inc	Various Local non-DG manufacturers.
Technology	Proven, considering engine & statutory requirements, operating efficiency over 90%	
Experience	20+ Years of aftertreatment of exhaust, 10 manufacturing plants , 7 Global R&D centers, Available for Various Applications	1-4 years of manufacturing without expertise on engine operations / requirement
Design	Compact and multiple units, designed to meet Statutory guidelines. Reliable and Authentic solution which Cummins customers can rely upon.	Single Closed Unit, Bypass system available which may not be recommended by Statutory Agency. Approvals to be verified/checked by customers.
Health Check	Engine will be checked before installation for back pressure, exhaust temperature & other operating parameters to ensure correct fitment of RECD.	Has not been practiced (as per market information). Not being able to carry out such tests leads to unpredictable performance after fitment over the period of time
Controls & Safety (Control Panel)	Monitoring of Differential pressure to ensure safe operation of Engine	Not provided, details not available which may lead to compromising of operation of Engine
Maintenance & After Support	Low maintenance	Not easy to clean & complex to maintain
After Sales Support	Cummins assured wide Service network across country; Annual Contract will be taken after one year/warranty period.	Yet to be known, No service support teams in place
	24x7 Service support	

Specification Table

Cummins Part No	DG Rating	Description	Dimension of RECD Device (mm)	Weight of the RECD Device (Kg)	Approximate Weight of the RECD Device with Mounting (Kg)
A075D102	1010	RECD for Diesel generators 1010 KVA	L-2170, H-1162, W-967	540	1096
A075D103	1250	RECD for Diesel generators 1250 KVA	L-2170, H-1162, W-967	540	1096
A075D104	1500	RECD for Diesel generators 1500 KVA	L-2920, IH-1162, W-967	756	1505
A075D105	1800	RECD for Diesel generators 1800 KVA	L-3370, H-1162, W-967	864	1745
A075D106	2000	RECD for Diesel generators 2000 KVA	L-3370, H-1162, W-967	864	1745
A075D107	2500	RECD for Diesel generators 2500 KVA	L-3770, H-1162, W-967	972	1932

***Excludes Site Installation material and site level modifications.** **Weight of the device with mounting structure is approximate weight and would change based on site conditions.

The product can be subject to any future changes in above specifications as continuous improvement efforts and compliances.

Note: While RAS are compliant to NGT order O.A 681/2018, the RECDs for DGs greater 800 KW are not certified by any CPCB approved labs since the S&P for RECDs catering to DGs greater than 800 KW is not notified by CPCB.

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RETROFIT AFTERTREATMENT SYSTEM

A Revolutionary retrofit device by Cummins to reduce emissions

EMPOWERING A CLEANER FUTURE

What is RAS?

Retrofit Aftertreatment System

(A Revolutionary retrofit device by Cummins to reduce emissions)

Cummins introduces revolutionary Retro Aftertreatment system (RAS) for all our Diesel Genset customers. Cummins RAS device is designed to significantly reduce harmful emissions generated from Gensets. They capture particulate matter (PM), carbon monoxide (CO), Hydrocarbons (HC) with more than 70% efficiency* Retro Aftertreatment System has been designed and developed by Cummins Emission Solutions, a subsidiary of Cummins India Limited. Cummins Emissions solutions is a leading Global designer, integrator, and distributor of exhaust aftertreatment systems. Cummins Emission solution has successfully developed aftertreatment systems to meet CPCB IV, BS VI and CEV norms.

Why Cummins RAS?

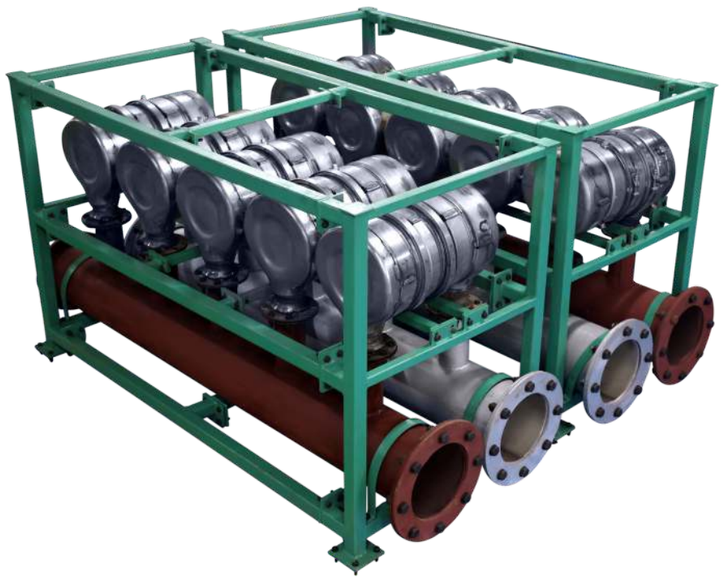
Reduces particulate matter, hydrocarbons, and carbon monoxide by over 70%

Proven Cummins technology for better performance

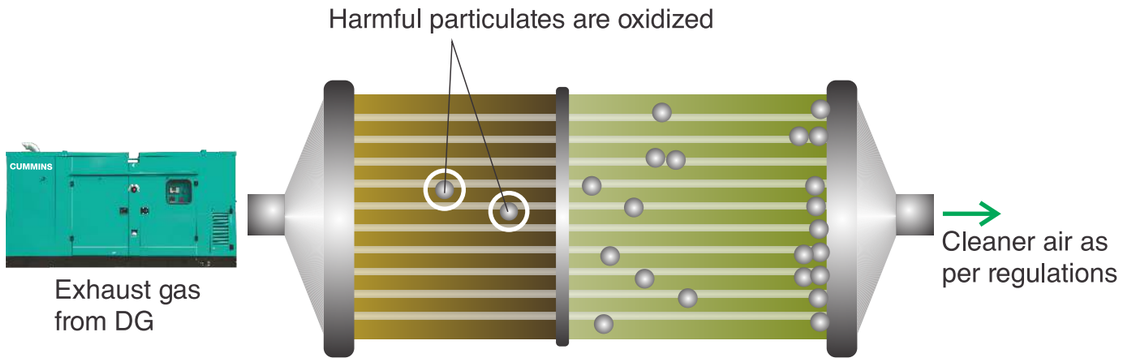
Compact design with easy installation, no changes to existing DG layout

Low initial, operational, and maintenance costs

Safe, easy to handle, and requires minimal maintenance



How Cummins RAS technology works?



1. Retro Aftertreatment System consists of two major elements Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter (DPF)
2. DOC is a flow through catalyst coated with platinum grade metals and DPF is a wall flow substate
3. Exhaust gases from the generator flow through the RAS. No modification is required on the exhaust.
4. DOC converts Hydro-carbons and Carbon monoxide up to 90%.
5. After the DOC element, exhaust gases pass through DPF which along with DOC reduces the particulate matter up to 90%