

RECD - Retrofit Emission Control Device

Device Type approved
by CPCB accredited
labs for Particulate
matter (PM), CO & HC
reduction

No adverse
impact on engine:
Back-pressure under
permissible limit

No by-products or dumping
issue of captured pollution

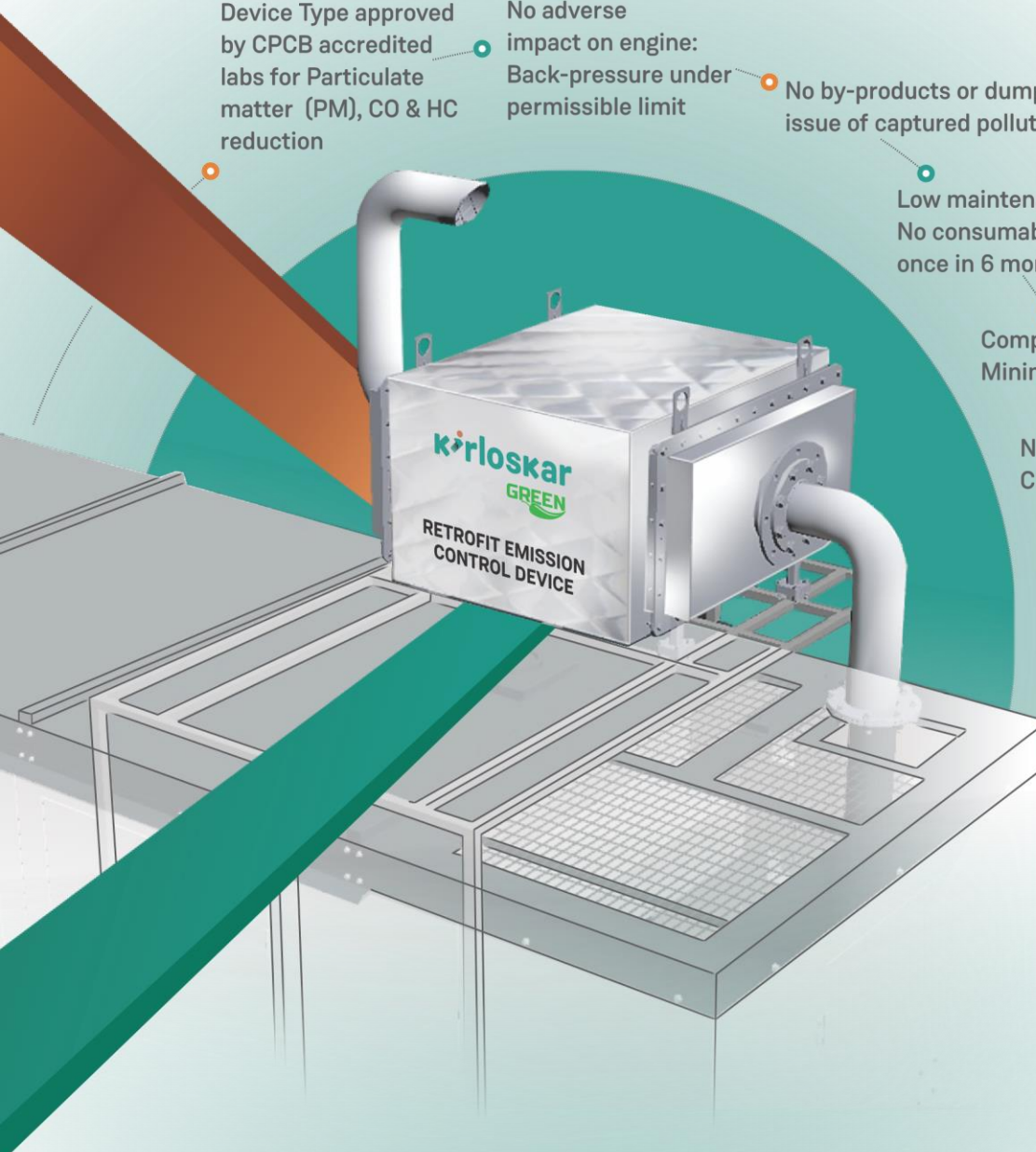
Low maintenance:
No consumables; maintenance
once in 6 month or 500 hours

Compact design:
Minimal space is required

Noise levels as per permissible
CPCB limits

Robust product:
With over 10 years of life

Minimal additional energy:
< 1% of the capacity used
for operations



What Is RECD ?

Currently the most effective way to remove harmful emissions from the exhaust gas of a DG is by using the RECD kit. A Retrofit Emission Control Device (RECD) is a mechanism installed at the exhaust port of a DG to reduce harmful emissions such as Diesel Particulate Matter (DPM), Carbon Monoxide (CO), and Hydrocarbons (HC). Ministry of Environment, Forest and Climate change has come up with National Clean Air Programme (NCAP) as national strategy document released on 31st Dec 2018 & National Green Tribunal in its Order O.A. No. 681/2018 dated 6th Aug 2019 had mandated the use of RECD for reducing the Air Pollution from DGs.

CPCB Compliant

Why RECD ?

Diesel generators are a major part of almost every residential & commercial infrastructures, used as backup for power generation. DG sets are also contributors to the emission of harmful gases such as PM, CO and HC. Diesel Particulate Matter (DPM), Carbon Monoxide (CO), and Hydrocarbons (HC) are responsible for environmental & physical health damage. Equipping Retrofitting Emission Control Equipment (RECD) for DG sets is an effective and most efficient way to reduce the harmful emissions in the exhaust.

Working Principle of RECD

- RECD works in two stages; one is Oxidation stage & other one is Passive Regenerative Trap.
- RECD is installed near the exhaust and the exhaust gases will act as inlet gases for the RECD. At this inlet High quality of thermal insulation provided to protect the vicinity from high temperature while maintaining the enthalpy of the system.
- When the gases comes out of the exhaust there is >70 % reduction in PM, HC & CO.

Kirloskar RECD complies with the following criteria's mandated by CPCB:

- ❖ The Kirloskar RECD meets NGT guidelines for the reduction efficiency for Particulate Matter (PM), Carbon Monoxide (CO) & Hydrocarbons (HC) more than 70%.
- ❖ Kirloskar RECD are type approved as per CPCB systems & procedure for emission compliance testing.
- ❖ It maintains the secondary emissions under permissible limits & hence it is not hazardous to health. ❖ No adverse impact on the DG set performance.

Support provided from Kirloskar for RECD installation:

Pre Supply Checks & Support:

- ☑ Pre Supply and Inspections
- ☑ Installation Feasibility Study at Site
- ☑ Health Check of existing Kirloskar make DG

Supply & Installation:

- ☑ Type Approved RECD with complete Solution
- ☑ Support from Kirloskar Care Network
- ☑ Fleet of Trained team for on time completion of job

Testing & Handover:

- ☑ Testing of Genset on all load pattern available at site
- ☑ Educating Customer on usage
- ☑ Onsite Training for Customer team for O&M



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