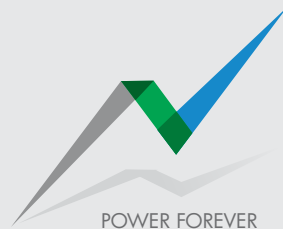




Retrofit Emission Control  
Device (RECD)  
for Diesel Generators



**VTECH**  
**POWER SYSTEMS**

GENERATORS | RECD | Electrical Panels | SOLAR

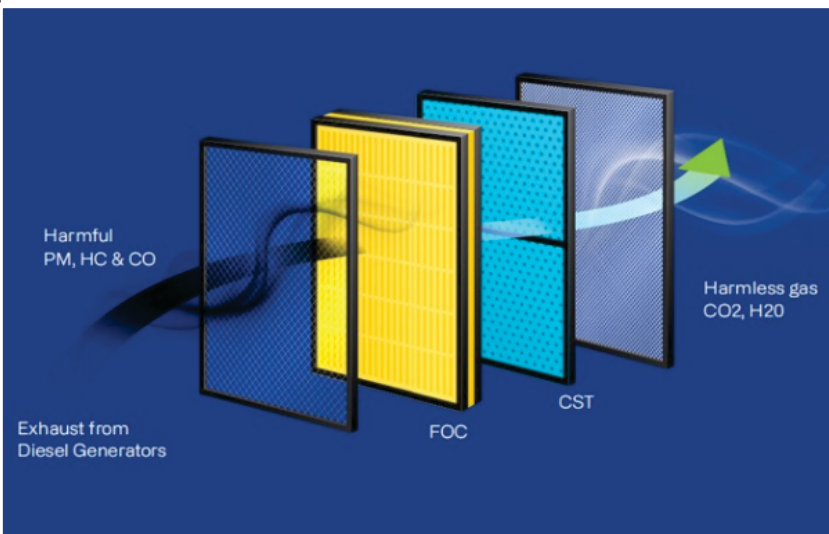
## VTech Power Systems

**VTech Power Systems** is in to power back up solution since more than 21 years. **VTech** is on the mission to reduce the pollution of gensets through collaboration with innovators and technocrats and contribute into National Clean Air Programme (NCAP).

We are authorised Channel partner of Type approved emission control Devices manufactured by Platino for Diesel Generators from 15 kVA to 2500 kVA.



2 December 2024 4:55 pm



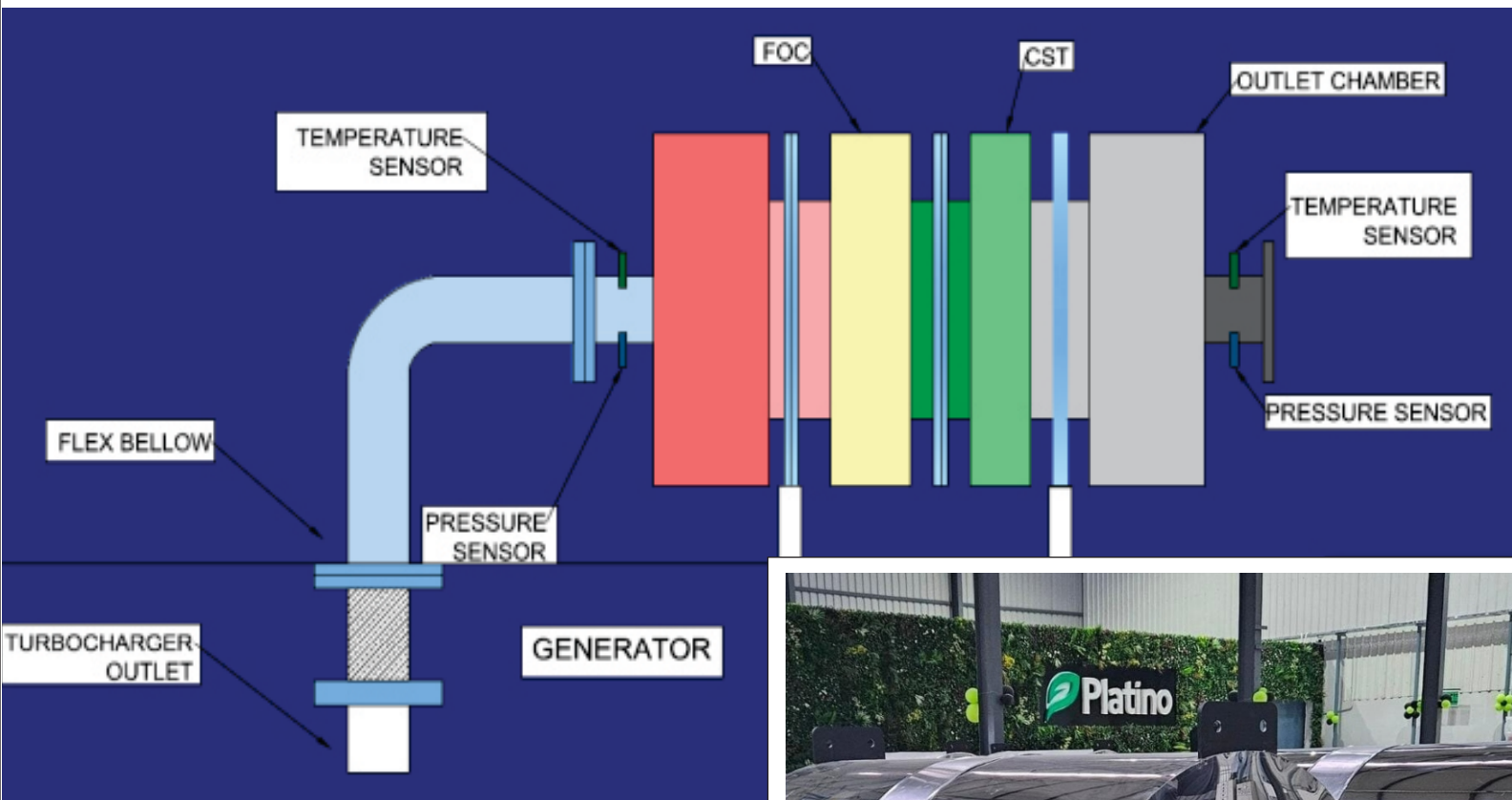
## RECD TECHNOLOGY

Our device uses the Cat-Con technology that reduces the harmful gases through chemical reactions. Two process takes place, One is the oxidation process and other is regeneration trap with self-cleaning technology to reduce the harmful emissions such as PM, HC & CO.





## Working Principle



## RECD FEATURES

Our technology is tested under the required ISO 8178 5-mode D2 cycle from Automotive Research Association of India, Pune, one of the 4 CPCB recognized labs.



Zero Back Pressure  
(as per ARAI test report)



Long Device Life  
(20 Years/20,000 hours)



Endurance Tested



Low Maintenance



Carbon Self .  
Clean Technology



High Efficient  
PM reduction Upto 97%



Compact RECD with  
CO & HC reduction



No by-product  
generation

























## ADVANTAGE

- Proven Globally accepted technology.
- World's First & only RECD with ZERO Back pressure (As per ARAI Test Report).
- In line with CPCB latest norms with On Board Diagnostic Panel safety systems.
- Very high efficiency PM reduction (92.6%) along with HC and CO above 70%.
- Very less maintenance.
- CFD stimulated design.
- Compact and easy to install.
- Operator warning system enabled.
- Separate land space/ concrete foundation is not required.
- Installation of RECD @ horizontal, Vertical, Diagonal position.
- Technically strong DG experienced service team.
- Service support for both RECD & DG Set.
- Combined Annual Maintenance contract for RECD & DG sets.

## COMPARISON

### PLATINO'S RECD

### ELECTROSTATIC PRECIPITATOR

 Above 90%	<b>PM CAPTURE EFFICIENCY</b>	Below 80% 
 Low	<b>INITIAL COST</b>	Very High 
 Zero back pressure (as per ARAI testing report)	<b>BACK PRESSURE</b>	BACK PRESSURE  Back pressure (due to more bends & restrictions)
 More than 70%	<b>CO &amp; HC CAPTURE EFFICIENCY</b>	0% 
 Compact (Size as equal to the silencer)	<b>RECD SIZE</b>	Huge Size (Occupies more space 50% size of the DG set) 
 Very low	<b>ERECTION COST</b>	Very High 
 1-3 days	<b>TIME REQUIRED FOR ERECTION</b>	7-15 days 
 Negligible	<b>OPERATIONAL COST</b>	Moderate-High  (Due to Carton soot disposal rotating & movable components with high voltage device)
 Negligible (Self Cleaning/Continuous Regeneration Technology)	<b>MAINTENANCE</b>	Collected Carbon Soot Safe  Disposal Challenge -High Voltage Devices
 20 years (or) 20,000 hours whichever is earlier	<b>LIFE SPAN</b>	6 years (or) 6,000 hours  whichever is earlier
 No visible smoke	<b>INITIAL SMOKE</b>	Heavy Black smoke 
 No soot collection	<b>CARBON SOOT COLLECTION</b>	Yes soot collections 



**VTECH**  
**POWER SYSTEMS**  
GENERATORS | RECD | Electrical Panels | SOLAR

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