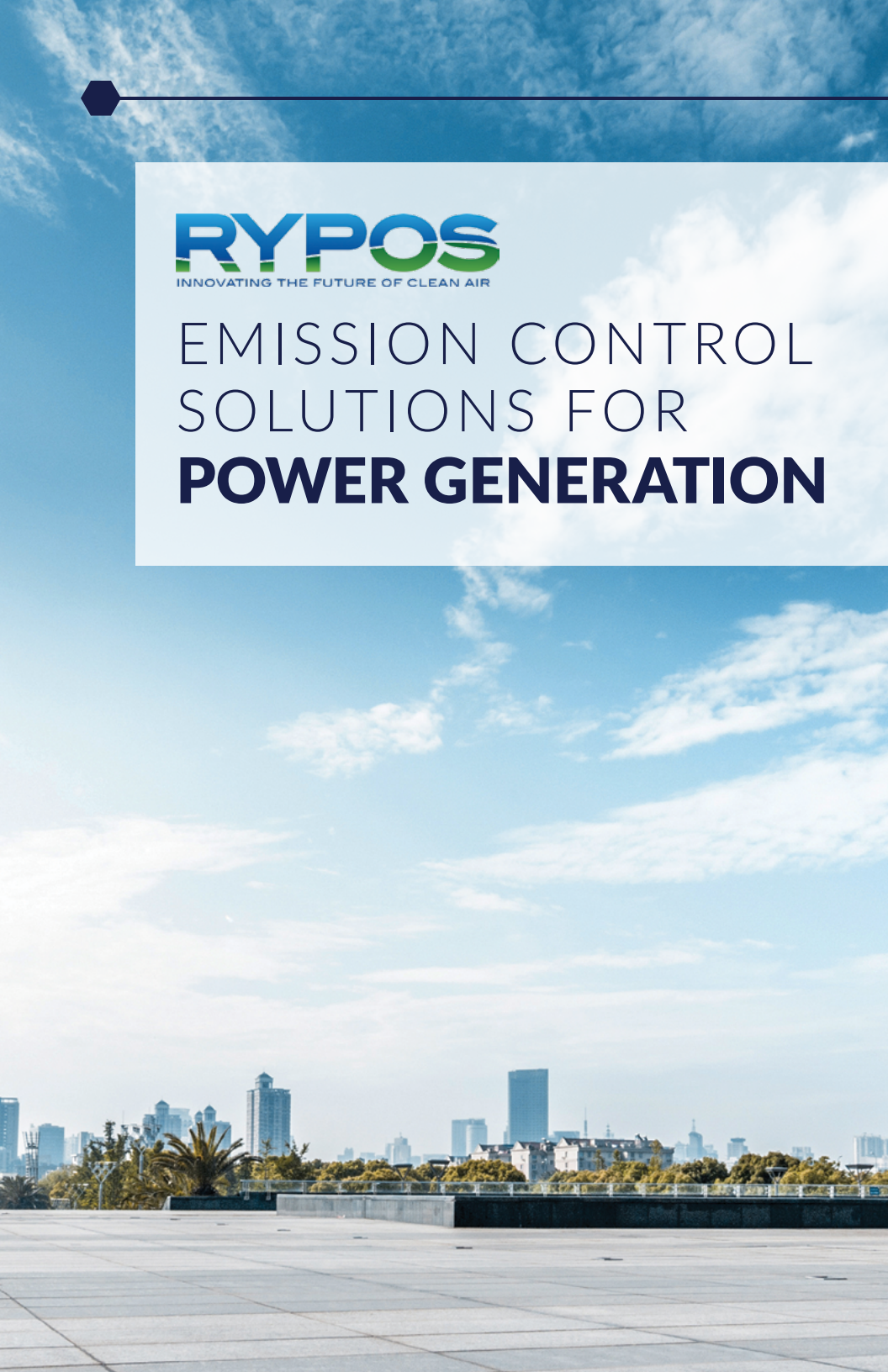
RYPOS

INNOVATING THE FUTURE OF CLEAN AIR

EMISSION CONTROL SOLUTIONS FOR **POWER GENERATION**



Power responsibly — eliminate up to 95% of harmful diesel genset emissions with Rypos Diesel Particulate Filters (DPFs).

Rypos is an emissions control and technology innovator that helps businesses using diesel engines achieve clean-air regulation compliance, improve sustainability efforts, and positively impact local environments.

Diesel particulate filters (DPFs) are exhaust-treatment devices that can be fitted to a wide variety of engines. DPFs trap harmful pollutants and prevent them from reaching the atmosphere, where they can cause significant impacts on human health and the environment.

Stationary Power Genset Product Line

Reliable plug-and-play products that lower emissions to CARB Level 3+ or EPA Tier IV final standards.

ACTIVE DPF AND SCR TECHNOLOGY

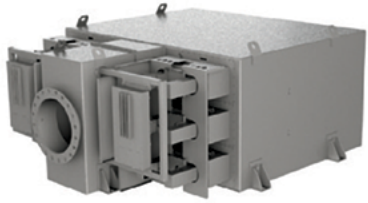
900 kW and above

- Reduces PM, CO, VOC, THC, NOx
- Tier IV Final compliant
- Integrated diesel oxidation catalyst (DOC)
- Low-profile housing
- Sound attenuated up to Super Critical Grade
- Rypos Active DPF

ADPF SERIES SYSTEMS

900 kW and above

- Reduces PM, CO, NO_2, THC
- CARB Level 3+ Verified
- Low-profile housing
- Intelligent controls
- Integrated diesel oxidation catalyst (DOC)
- Sound attenuated up to Super Critical Grade
- Stainless steel housing available



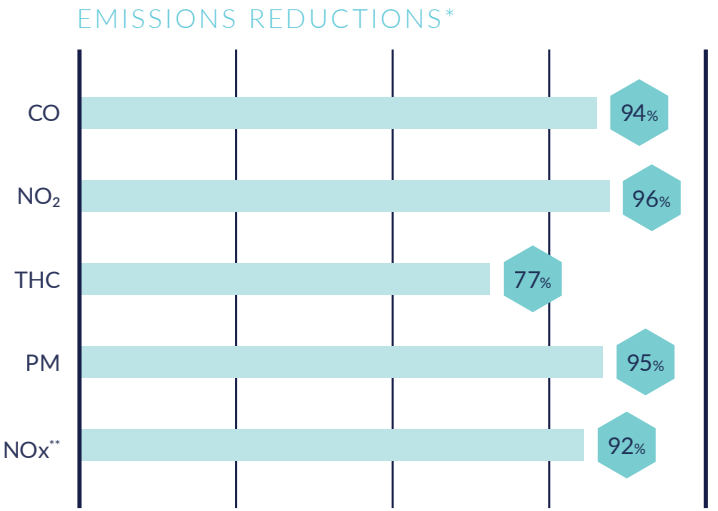
RH SERIES SYSTEMS

50 kW – 900 kW

- Reduces PM, CO, NO_2, THC
- CARB Level 3+ Verified
- Intelligent controls
- Integrated diesel oxidation catalyst (DOC)
- Sound attenuated up to Critical Grade
- Stainless steel housing

The Rypos Advantage

- ✓ Active filter regeneration
- ✓ Low back pressure
- ✓ Exhaust temperature independent
- ✓ Durable & easy to maintain
- ✓ Lowest cost of ownership
- ✓ Up to 95% particulate matter reduction
- ✓ PM, CO, THC, and NO_2 reduction
- ✓ Optional system for NOx reduction
- ✓ Less than 1% fuel penalty
- ✓ CARB Level 3+ verification
- ✓ CARB In-Use verification



*emissions are up to the % listed

**NOx reductions are only when an SCR is added

Rypos Active DPFs provide safe, reliable, and effective emissions control with:

- ✓ NO downtime
- ✓ NO cold start restrictions
- ✓ NO idle time restrictions
- ✓ NO dependency on exhaust temperature

MADE IN USA

Active vs. Passive Regeneration

Rypos patented active DPFs oxidize accumulated soot at 700°C in <3 minutes, typically using <1% of generator output. Other systems raise exhaust temperature for up to 30 minutes, using up to 25% of fuel or costly electricity and sacrificing generator safety, reliability, and efficiency.

Active regeneration: filter cleaning independent of exhaust temperature, number of cold starts, and engine load and run time.

Passive regeneration: filter cleaning only when exhaust is hot enough to burn off PM.

Passive systems regenerate only under narrow conditions of high exhaust temperature with specific NOx:PM ratios. When these conditions don't exist, the filter can fill with soot, increasing engine back pressure beyond acceptable limits and possibly becoming a fire hazard.

	ACTIVE	PASSIVE
Regenerates in any exhaust temperature	✓	
Performs in all operating conditions	✓	
Mounts remotely from engine or generator	✓	
Doesn't require expensive fuel	✓	
Maintains engine backpressure within limits	✓	
Requires cold starts tracking		✓
Must reach minimum temperature		✓
Requires load bank or separate heater		✓
Increases run times & fuel costs		✓

Case Study: West Coast Data Center

When an international technology corporation with multiple data centers wanted to reduce emissions from their MTU Tier 2, 2-megawatt diesel genset and 24 HITEC DRUPS systems equipped with MTU S4000 Tier 1 engines, management chose Rypos active DPFs. Their unique construction, reliability, and flexibility make Rypos DPFs ideal for retrofit installations involving mission-critical data. After installation, the DPFs reduced the maintenance workload of all 25 units and reduced emissions to comply with California's stringent air quality regulations.

Markets We Serve

- Data centers
- Healthcare
- Educational institutions
- Military & government
- Commercial businesses
- Food & beverage
- Manufacturing
- Utilities
- Port equipment
- Pump stations

LET'S GET IN TOUCH!

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