

Active vs Passive DPFs

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Rypos



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Active vs Passive DPFs

- What is a DPF?
- Where are DPFs used / required?
- Active vs Passive technology
- Market trends
- Summary



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What is a DPF?

- Diesel particulate filter
 - Catches PM / soot
 - 85% + reduction
 - Burns off PM / regeneration



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Why use DPFs?

- 95% Compliance – Federal , State and Local
- 5% Good corporate citizenry
- Desire to be green, Employee health and safety
- Aesthetics



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Types of DPFs

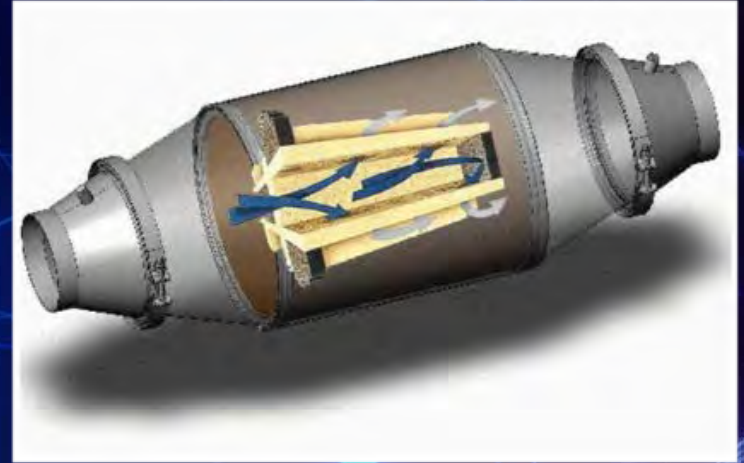
- Passive
- Active



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Passive DPF

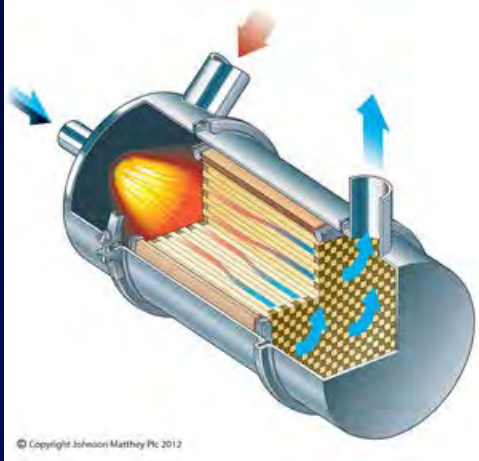
- Elevated exhaust gas temp
 - Load banks
- “Pollute to control”
- Engine backpressure
- Maintain and clean
- Engine shut down / fire hazard



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Active DPF

- Fuel burner
- Electrically self-regenerating



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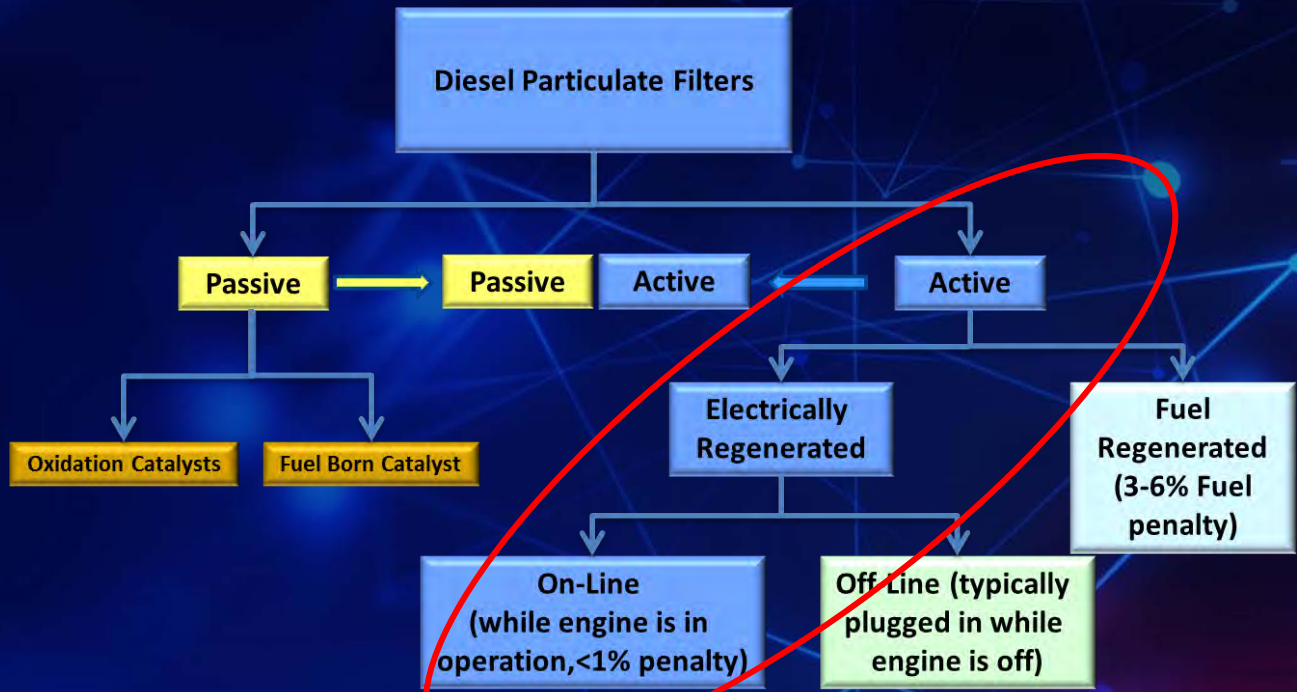
Active DPF

- Backpressure
 - Porosity
 - Continually monitored
- Independent of exhaust gas temp
- Automatic
- Low fuel penalty
- Low maintenance
- Flexibility in design



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Active Regeneration Technology



Rypos core technology



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Market Trends

- EPA Tier 4
- Demand Response programs
- Awareness in design
- Health and Safety
- Title 5 sites
- Replacement of passive DPFs



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