

CATVAP® FLEXIBLE HEATING & HEAT RETENTION SYSTEM FOR LOWEST NO_x EMISSIONS

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SYSTEM CHARACTERISTICS

- Efficient and flexible aftertreatment thermo-management device
- Powered only by fuel after initial light-off with electrical heater
- · Compatible with alternative fuels e.g. HVO
- Intermittent / continuous heater performance up to 20 kW ("Burner mode")
- In "DOC mode" generating of process gas (CO/H₂) for conversion in the diesel oxidation catalyst (DOC) of the exhaust system providing extended overall heating performance
- · Variable heating output with a large spread up to 100 kW

- Fast activation of the DOC via temperature and process gas
- Continuous DOC / SCR temperature stabilization in "Heat retention mode"
- Enables active diesel particle filter regeneration (possible without dedicated HC doser)
- Heater ready for operation after 20 seconds
- Aftertreatment system ready for operation after approx. 60 seconds
- Compliance with future emission norms
- 24 V on-board network compatibility, optionally adaptable for 12 V / 48 V



FUNCTIONALITY

- Fuel processing technology for the efficient treatment of exhaust gases
- Reduction of emissions from internal combustion engines, especially during cold start and as heating measure for exhaust gas aftertreatment systems in low temperature / low load cycle conditions
- Required heat is generated from fuel by a catalytic conversion
- Required oxygen is drawn from the engine exhaust gas
- Required amount of fuel is provided to the system by means of regulated fuel pumps in accordance with the current power requirement

Four different modes can be set:

- Burner mode for fast heating when exhaust gas is cold
- Heat retention mode to keep exhaust gas warm during low load operation
- **DOC mode** to achieve high power output up to 100 kW using CatVap® process gas
- DPF regeneration mode (extended usage / optional)



Image source: CatVap®, Vitesco Technologies; Exhaust gas flap, Rheinmetall

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Albonair's mission is to make air cleaner – with innovative exhaust aftertreatment systems made in Germany. The company has specialized in the development and manufacturing of urea dosing as well as heating and heat retention systems for lowest NO_x emissions.

Albonair systems offer commercial vehicle OEMs and engine manufacturers in the on-road and off-road sector an innovative and cost-effective solution to fulfill future emission standards.

As a volume producer with more than 2 million systems in the market, Albonair is an established and proven original equipment manufacturer worldwide.

Albonair is a member of the multinational Hinduja Group and has in addition to its headquarters in Dortmund further locations in Chennai (India) and Shanghai (China).

CONTACT

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