



## DUAL DOSING SYSTEM FOR LOWEST NO<sub>x</sub> EMISSIONS

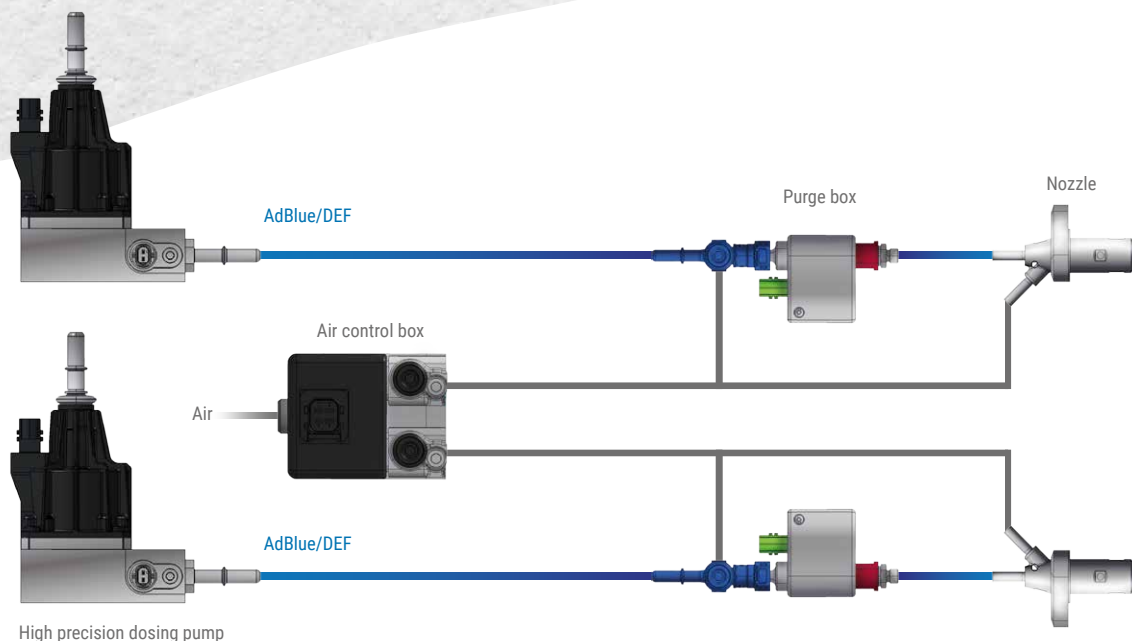


## HEATED NOZZLE OPTION FOR DUAL DOSING



# DUAL DOSING

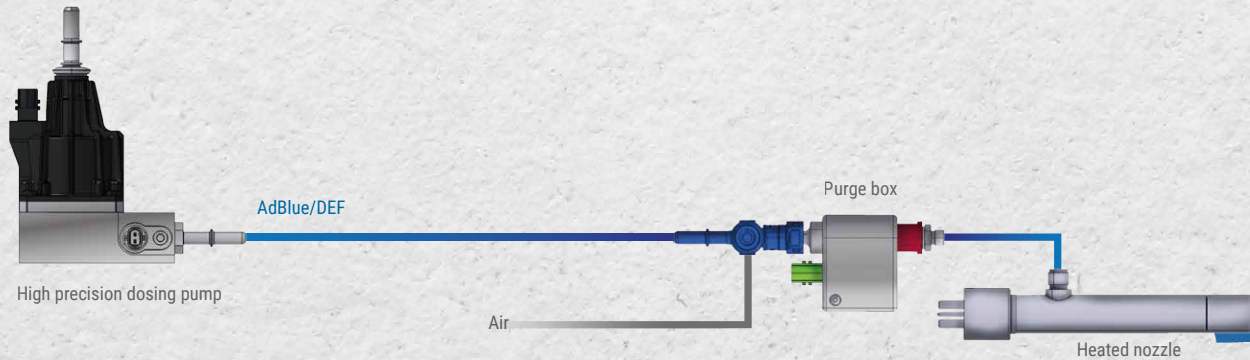
## FOR LOWEST NO<sub>x</sub> EMISSIONS



## SYSTEM CHARACTERISTICS

- Air-assisted AdBlue / DEF dosing for multiple injection points
- Finest spray atomization
- Completely independent and wide-range delivery rates
- High dosing accuracy thanks to precise metering pumps (+/- 3%)
- Up to 11 kg/h dosing amount per dosing point
- Optimized system components for durability and stable system performance over lifetime
- Lifetime: > 60.000 kg (each injector)
- End of life dosing accuracy: +/- 5%
- Modular design for simple system installation and integration
- Operation via engine controller (ECU) or Albonair Aftertreatment Control Unit (A2CU)

# HEATED NOZZLE – OPTION FOR DUAL DOSING

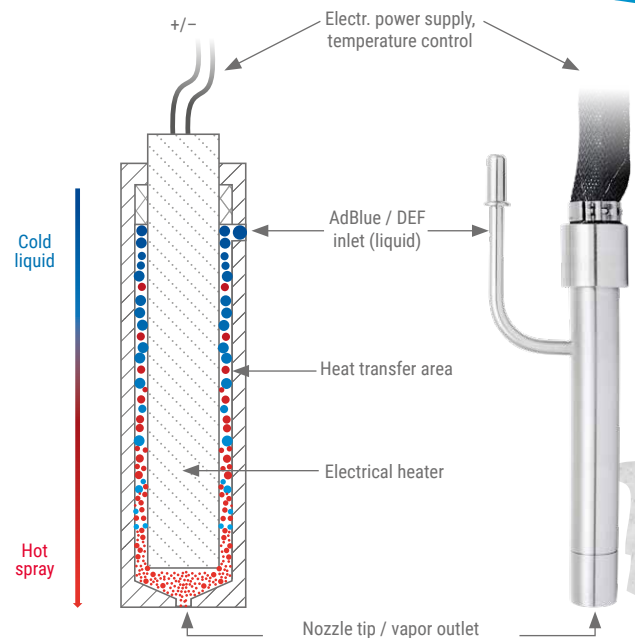


## SYSTEM CHARACTERISTICS

- Electrical heating of AdBlue / DEF inside nozzle
- Evaporation of water (w/o impacting exhaust gas / catalyst temperature)
- Transforming urea into liquid phase
- Injection of urea droplets and water steam
- Initiation of urea de-composition / pre-reactions to HNCO and  $\text{NH}_3$  before catalyst
- Reducing risk for deposit formation in exhaust system
- Designed to enable SCR operation at low exhaust/ catalyst temperature with minimum energy supply

## OPERATING PARAMETERS

- Exhaust gas temp.  $<160^\circ\text{C}$
- Max. AdBlue / DEF massflow 1 - 1,5 kg/h
- Max. electrical power 1,2 kW
- AdBlue / DEF supply with low pressure Albonair dosing pump
- No additional means for spray formation
- Air consumption for system purge only





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<sub>x</sub> 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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