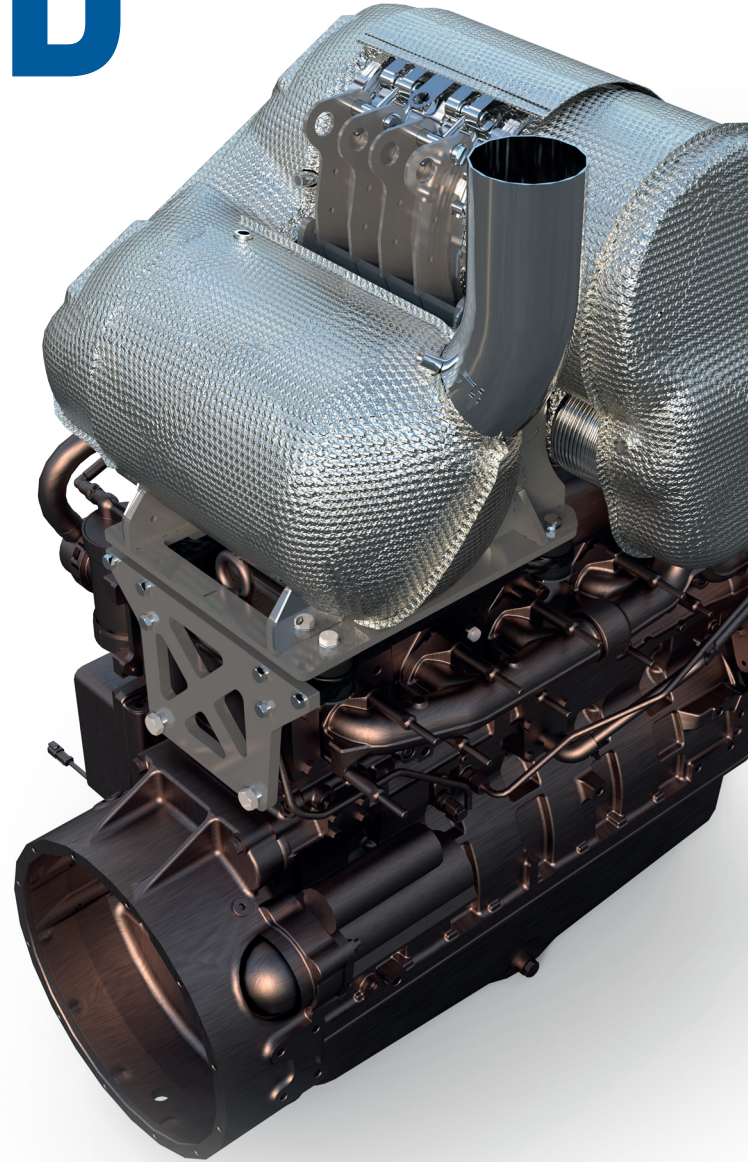# PROVENTIA

MIX AND MATCH

TOP-PERFORMING, *compact exhaust aftertreatment systems made with Proventia AdBlue mixers.*

Improved SCR performance for the best possible NO_X reduction is to be achieved with effective urea mixing. With Proventia mixers, evaporation and mixing are effective, leading to ammonia uniformity values up to 0.99, allowing precise amounts of AdBlue to be injected into the exhaust gas – even at lower temperatures.

WHY PROVENTIA MIXERS?

- Proven, patented technology for a wide application range of NRMM
- Scalable and tailorable for customer-specific needs
- Compact mixers and EATs easily fitted to most engines and applications
- Allows more urea to be injected in minimal pipe lengths
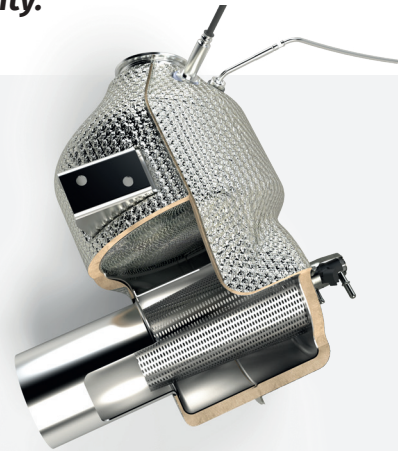- Even ammonia (NH_3) distribution at low and high speeds

INNOVATIVE, PATENTED MIXER TECHNOLOGY

PROVENTIA *offers 3 types of patented AdBlue mixer that enable the compact design of EAT systems for applications with limited space availability.*

Proventia Tornado Mixer

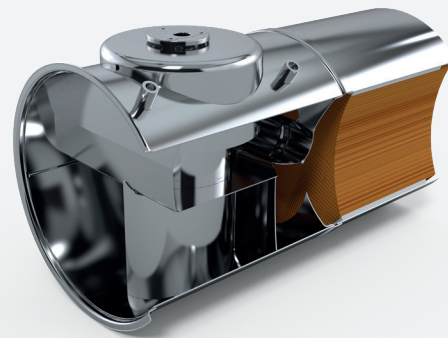| Tornado Mixer Sizes	Typical engine size (kW)
S	60–100
M	90–150
L	130–230

- Applicable for both EGR and non-EGR engines
- No droplets on cold surfaces
- 0.5–1 m from mixer to SCR inlet
- DOC/DPF integrated or mixer-only structure

Proventia Inline Mixer

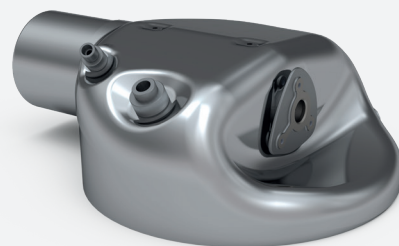| Inlet diameter (DPF diameter)	Typical engine size (kW)
7.5–8.5"	56–120
9.5"	85–150
11.25"	130–230
13"	180–300

- Optimised for the inline EAT layout, modular structure: DOC-DPF-SCR all in line
- Allows extreme dosing amounts → non-EGR
- <1 m total EAT length, for example, with 250 kW engine

Proventia Piper Mixer

DPF diameter (inlet diameter)	Typical engine size (kW)
7.5"–9.5"	60–150
10–12"	130–300

- The unique end can mixer, allowing extraordinary dosing amounts
- The most compact, further downsized mixer family for minimal spaces
- Extra short pipe length after DPF

Proven technology for non-road mobile machinery

- Patented mixer technology with strong IPR
- Long field experience >10 years

- EATs with Proventia AdBlue Mixers deliver the highest levels of reliability and performance in all operating environments