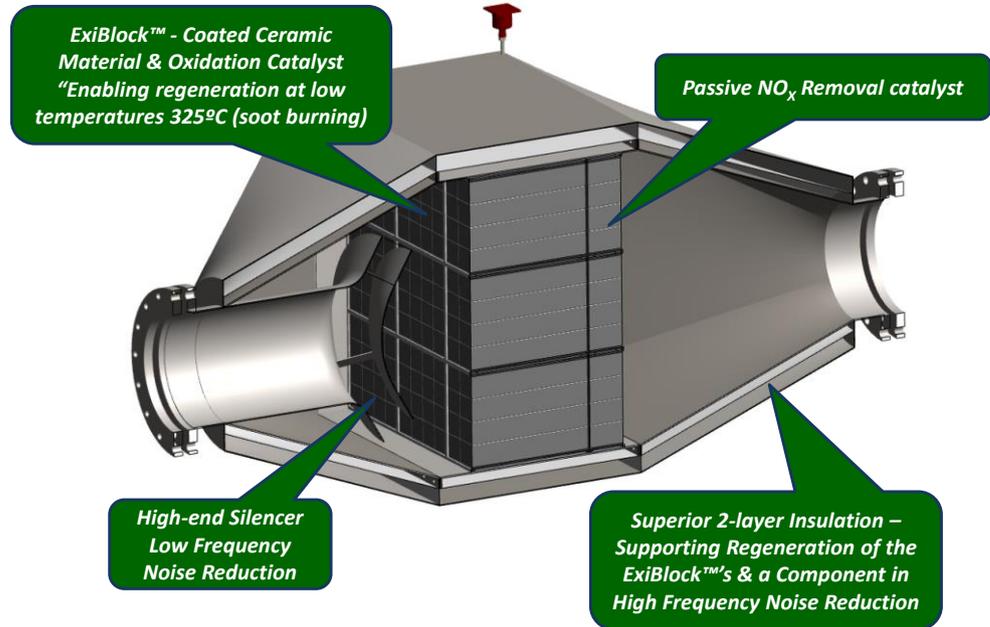


EXHAUST PURIFICATION

EXILATOR

THE EXILENCER™



PASSIVE

EXHAUST SYSTEM

REMOVING

PARTICULATE MATTERS

CARBON MONOXIDE

REDUCING

LOW & HIGH FREQUENCY NOISE

NITROGEN OXIDES - NO_x

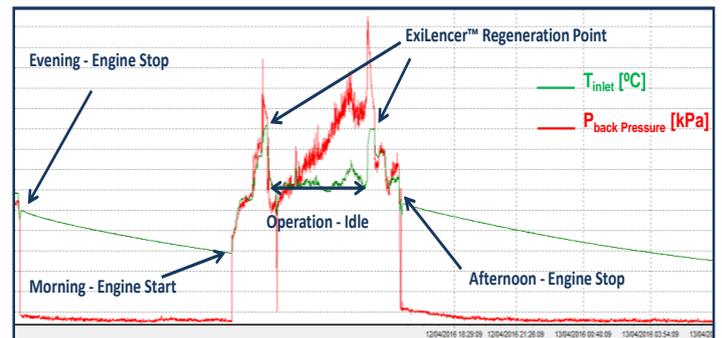
ExiLencer™ is engineered to handle following aspects:

- The coated ceramics, **ExiBlock™**, removes:
 - Exhaust gas Particulate Matters (reduction > 98%).
 - Carbon monoxide, CO (reduction >99%).
- The special designed diffuser ensures low back pressure and an even distribution of the flue gas.
- Noise reduction of up to 35 dBA is detected in the exhaust pipe.

ExiLencer™'s patented coating causes regeneration at a much lower flashpoint temperature, than other exhaust systems. The exhaust gas ignites Particulate Matters / soot already at 325 °C.

A secondary effect of the **ExiLencer™** system is the positive **NO_x** balance.

The **ExiBox™** monitors continuously key exhaust parameters and if threshold are violated, the system notifies the crew, via hard-wired or remote alarms.



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ExiLencer™ is suited for 4-stroke diesel engines, running on low Sulphur fuels (LS-MGO, <0.1%).

ExiLencer™ is made from AISI 316 stainless steel, providing a durable casing withstanding both mechanical stress as well as the acidic environment that the flue gas creates.

The **ExiBlock™**'s are clothed in ceramic matts, serving the purpose of:

- Avoiding flue gas bypassing the **ExiBlock™**'s, to ensure the very high exhaust system efficiency.
- Reducing mechanical stress and always ensuring correct fixation of the **ExiBlock™**'s, which provides durability, even in rough seas, and giving the **Exilencer™** extra longevity.

The **ExiBlock™**'s are easy replaceable e.g. during the annual service.

The **Exilencer™** back pressure is always optimized to the actual engine. Simple design guidelines help defining the right size of the **ExiLencer™**.

The **Exilencer™** Design Chart, below, shows scalability.

As an example; the ideal size of **ExiLencer™** for one 1.2 MW propulsion engine, with a maximum allowable back pressure of 10 kPa, is **12 ExiBlock™'s**.

A lower back pressure (< 3 kPa) can be achieved, when applying more **ExiBlock™**'s.

A solution of 8 **ExiBlock™**'s can be selected, however, **Exilator™** can only recommend this if the back pressure of the original exhaust system is low, or the engine is operated with care.

Selecting 6 **ExiBlock™**'s provides no operational margin and cannot be recommended.

