YANMAR has developed SCR system that meets to IMO Tier 3 regulations, which require an 80%, i.e. big reduction in NOx compared with Tier 1. Making use of our original technology and wealth of experience, we have created a system whose design and functionality are optimized for marine vessels, and which is perfectly matched for use with diesel engines, both in ECA and non-ECA waters. In addition, repeated verification tests have been conducted on ocean-going vessels (equipped with SCR system for 3 auxiliary engines) to further improve the system.
Maintaining highly NOx reduction performance whilst ensuring safety.

The by-pass branching section and catalytic reactor have been integrated into a single unit, achieving high-performance NOx reduction. Engines equipped with our SCR system is obtained NOx certification ( Scheme A ), whilst maintaining performance onboard. Additionally, a urea injection nozzle is installed downstream from the branching section, preventing ammonia from leaking into the by-pass line.

Long lifetime of catalyst

Catalyst degradation occurs due to the flow small amounts of exhaust gas into the catalyst line when the by-pass is in operation. The unit to prevent it includes 2 types of outlet.

After-service for both engine and SCR system

We offer comprehensive engine and SCR system support, including periodic NOx ( reduction rate ) measurements as stipulated by the vessel classification society rules and maintenance.

Upon request, we can also provide production equipment of urea water solution. ( optional )

Automatic control for multiple engines.

Control unit integrates all devices including catalytic reactors mounted to each individual engine. A single pump unit and control panel can manage system for multiple engines, allowing the system to remain compact.

Long lifetime of catalyst

Catalyst degradation occurs due to the flow small amounts of exhaust gas into the catalyst line when the by-pass is in operation. The unit to prevent it includes 2 types of outlet.

Standard spec. [ Lower overall height ]

Optional spec. [ Equipped with changeover valve ]

| Overall height of catalytic reactor outlet | Low | High |
| Changeover valve installed to same outlet | * Not req’d | Req’d |

Purge air

* Prevented by internal structure of duct

Safety Precautions

- Use this product correctly, and only after thoroughly reading and understanding the contents of the instruction manual.
- Inappropriate use of this product will result in reduced product lifetime, and may cause failures and/or accidents.
- Carry out periodic maintenance so as to prevent failures and/or accidents.