

EXHAUST GAS RECIRCULATION COOLER – PRODUCT OVERVIEW

PRODUCT OVERVIEW

Exhaust Gas Recirculation Cooler — Product Overview

Engine & Generator Cooling · Exhaust Gas Recirculation Cooler

Novaryn EGR coolers are positioned for harsh exhaust conditions, thermal cycling, and emissions-focused engine upgrades in marine, rail, and heavy-duty power systems.

Gas class

High-temperature exhaust recirculation

Engineering focus

Thermal stress and fouling prediction

Outcome

Lower intake mixing temperature

STANDARDS & MATERIALS

The framework behind the line.

Design standards

ASME VIII Div. 1 · EN 13445 · ISO 15550 · PED 2014/68/EU

Material scope

Carbon steel · Stainless steel · CuNi · Titanium · Aluminium

Applications

Diesel and electric rail · Exhaust gas cleaning · Marine on-board systems

Series depth

1 series · three planning sizes each

At a glance

- Extreme exhaust resilience
- CFD-guided fin geometry
- Reduced gas-side fouling
- High process availability

Typical applications

- Diesel and electric rail
- Exhaust gas cleaning
- Marine on-board systems



EXHAUST GAS RECIRCULATION COOLER – REPRESENTATIVE NOVARYN EQUIPMENT

SERIES

Series ledger

Configuration routes inside this line. Series codes are Novaryn references; project-specific model codes are confirmed on the order.

CODE	SERIES	RANGE / APPLICATION	CONFIGURATION
NX-EC-066	Engine	Medium and low-speed engines	Emission reduction projects · High-temperature exhaust handling

Representative planning data. Certified ratings, dimensions, connection details and material schedules are issued against the project duty point.

How to read the series

The series entry defines the configuration route. The line datasheet carries the planning tables. The project datasheet replaces both with certified ratings, dimensions, connections and material schedules.



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VARIANTS

Planning variants

Representative planning grid with three nominal sizes per series. Not for construction or procurement.

SERIES	MODEL	HEAT LOAD	FLOW RATE	CIRCUIT	PART NUMBER
Engine	NX-EC-066-S	50 kW	8 m³/h	Seawater	NX-EC-066-S
Engine	NX-EC-066-M	100 kW	16 m³/h	Charge air	NX-EC-066-M
Engine	NX-EC-066-L	150 kW	24 m³/h	Water / glycol	NX-EC-066-L

Part numbers shown are catalogue planning references. Ordering codes incorporate the project revision, connection schedule and material options.

Selection inputs

Bring the media, flow, temperatures, design pressure, ambient conditions and allowable pressure drop. Those five inputs frame the thermal and mechanical envelope.



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APPLIED

Where the line belongs.

Typical applications and the engineering intentions behind the configuration.

- Extreme exhaust resilience
- CFD-guided fin geometry
- Reduced gas-side fouling
- High process availability

Application scope

- Diesel and electric rail
- Exhaust gas cleaning
- Marine on-board systems

DOCUMENTATION

Documents

Download the datasheet, GA drawing and this overview from the product library.

DOCUMENT	TYPE	REV.	PAGES	ACCESS
Exhaust Gas Recirculation Cooler Datasheet	Datasheet	Rev. 04	2	Download
Exhaust Gas Recirculation Cooler — Product Overview	Product overview	Rev. 04	4	Download
Exhaust Gas Recirculation Cooler — General Arrangement	Drawing	Rev. 03	1	Download

Record set

The public library carries the selection record. Certificates, material reports and approved drawings are issued against the order and travel with the serial number.

LINE ENGINEERING

Send the duty point.

Media, flow, temperatures, pressure, ambient conditions, plot and access constraints, and the document requirement. If the duty is still forming, send what you have and we will frame the questions.

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