

FAMILY BROCHURE / 06 LINES / 7 SERIES

Engine & Generator Cooling

Box coolers, charge-air coolers, closed-circuit coolers, exhaust-gas exchangers and EGR coolers for engines and generators.

EQUIPMENT FAMILY
Engine & Generator Cooling

PRODUCT LINES
6

SERIES ENTRIES
7

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

MATERIAL SCOPE
Carbon steel · Stainless steel · CuNi · Titanium ·
Aluminium

REVISION
Rev. 04 · 2026-10-01

ENGINE & GENERATOR COOLING BROCHURE

FAMILY

Engine & Generator Cooling

Box coolers, charge-air coolers, closed-circuit coolers, exhaust-gas exchangers and EGR coolers for engines and generators.



INDUSTRIAL POWER AND COOLING EQUIPMENT

Cooling and heat-recovery equipment for engines, generators, compressors, exhaust streams and marine or rail power assets. The range is specified against heat load, coolant, ambient conditions, space envelope and service access.

Product lines

6

Design standards

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

Material scope

Carbon steel · Stainless steel · CuNi · Titanium · Aluminium

Application scope

Power generation · Marine · Rail · Oil and gas ·
Waste-to-energy · Hydrogen

Selection route

Start with the duty point, then confirm the family, line, series and equipment envelope. The project datasheet replaces the representative planning values.

ENGINE & GENERATOR COOLING BROCHURE

RANGE

6 product lines.

Each line carries its own duty envelope and series depth. The line pages hold the detailed selection data.

PRODUCT LINE	FOCUS	KICKER	SERIES
Box Coolers	Hull-integrated cooling bundles for marine water systems, saving engine-room space by using vessel movement and seawater flow.	Sea chest cooling / vessel systems	2
Charge Air Coolers	Charge air coolers for diesel and gas engines, improving combustion air density, engine efficiency, and operating stability.	Combustion air cooling / engine performance	1
Closed Circuit Coolers	Customer-configured closed circuit coolers for exact thermal and mechanical requirements in industrial and power systems.	Recirculating gas or liquid cooling	1
Compressor Coolers / Pressure Gas Coolers	Water-cooled pressure gas coolers and compressor cooler systems for air, hydrogen, carbon dioxide, hydrocarbons, and mixed gases.	Compressed gas cooling / process gas	1
Exhaust Gas Heat Exchanger	Compact exhaust-gas heat exchangers for recovering useful heat from combustion engines and similar high-temperature exhaust streams.	Waste heat recovery / compact stainless modules	1
Exhaust Gas Recirculation Cooler	EGR coolers for reducing recirculated exhaust gas temperature before combustion air mixing in medium and low-speed engines.	EGR cooling / emissions reduction	1



ENGINE & GENERATOR COOLING



REPRESENTATIVE EQUIPMENT

Range note

Series and variant values are representative planning data. Certified performance and dimensions are issued against the project duty point.

ENGINE & GENERATOR COOLING BROCHURE

SERIES

Family 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-060	Round	Small cooling surfaces	Compact vessel duties · Round sea-chest bundle
NX-EC-061	Rectangular	Large cooling surfaces	Stepped bundle option · Hull contour fit
NX-EC-062	Engine	OEM and replacement modules	Gas and diesel engines · Special fuel support
NX-EC-063	Industrial	Custom engineered	Enhanced tube systems · High corrosion resistance
NX-EC-064	Pressure	Water-cooled pressure gas cooler	Compression systems · Process recooling
NX-EC-065	Recover	Compact modular platform	Combustion-engine exhaust · Restricted-space plants
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.

ENGINE & GENERATOR COOLING BROCHURE

APPLICATION

Where the family belongs.

Typical sectors and equipment routes. Project suitability is confirmed against the site conditions and specification.

Applications

- Power generation
- Marine
- Rail
- Oil and gas
- Waste-to-energy
- Hydrogen

STANDARDS & MATERIALS

The engineering framework.

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

Material scope
Carbon steel · Stainless steel · CuNi · Titanium · Aluminium

Industry routes
Power & Energy · Transportation · Oil & Gas

Documentation
Brochure · datasheets · drawings · manual

DOCUMENTATION

Family documents

Public documents are downloadable from the product library. Certificates and material reports are issued against the order.

DOCUMENT	TYPE	REV.	PAGES	ACCESS
Engine & Generator Cooling Brochure	Family brochure	Rev. 04	6	Download
Engine & Generator Cooling — Installation and Maintenance	Installation manual	Rev. 02	8	Download
Engine & Generator Cooling — Certificate of Conformity	Certificate	Issued per order	1	On request
Engine & Generator Cooling — Material Test Report	Material test report	Issued per order	1	On request



INDUSTRIAL POWER AND COOLING EQUIPMENT

ENGINE & GENERATOR COOLING BROCHURE

LIFECYCLE

The family does not end at dispatch.

Spares, inspection, cleaning and retrofit use the same serial record as the original selection.

- Serial-matched spare parts and consumables
- Inspection, cleaning and performance review
- Retrofit, capacity uplift and refrigerant transition
- Commissioning and field service through the partner network
- Installation and maintenance manuals from the product library



ENGINE & GENERATOR COOLING



REPRESENTATIVE EQUIPMENT

SERVICE ROUTE	TYPICAL SCOPE	ENTRY POINT
Spares	Gaskets, plates, coils, fans, motors	Serial number
Inspection	Leaks, fouling, performance, condition	Operating data
Retrofit	Capacity, media, refrigerant, envelope	Duty review
Field service	Commissioning, repair, replacement	Partner / Houston

ENGINE & GENERATOR COOLING 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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