

FAMILY BROCHURE / 06 LINES / 12 SERIES

Transformer Cooling Systems

Tank-mounted and free-standing oil-air coolers, oil-water coolers, dielectric modules and circulation pumps for transformers.

EQUIPMENT FAMILY
Transformer Cooling Systems

PRODUCT LINES
6

SERIES ENTRIES
12

CORE STANDARDS
IEC 60076-2 · IEC 60076-7 · IEEE C57.12.00 · ASME VIII Div. 1

MATERIAL SCOPE
Hot-dip galvanised steel · Aluminium · Copper · Stainless steel · C5-M coating

REVISION
Rev. 04 · 2026-10-01

FAMILY

Transformer Cooling Systems

Tank-mounted and free-standing oil-air coolers, oil-water coolers, dielectric modules and circulation pumps for transformers.



COOLING FANS ON A POWER TRANSFORMER

Transformer oil and dielectric cooling equipment for tank-mounted, free-standing, water-cooled and immersion-style systems. Selection covers heat load, oil flow, ambient conditions, noise, corrosion class and access for cleaning or replacement.

Product lines
6

Design standards
IEC 60076-2 · IEC 60076-7 · IEEE C57.12.00 · ASME VIII Div. 1

Material scope
Hot-dip galvanised steel · Aluminium · Copper · Stainless steel · C5-M coating

Application scope
Grid substations · Renewables · Rail · Industrial power · Data centres · LNG

Selection route

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

TRANSFORMER COOLING SYSTEMS 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
Dielectric Modular Air Cooler	Turnkey dielectric-fluid air coolers for immersion cooling systems and containerized high-density compute environments.	Immersion cooling / turnkey module	1
Free-Standing Oil Cooling Unit	Free-standing oil cooling units for transformers that need separate cooler placement, easier service access, or site-specific airflow management.	Remote transformer cooling / service access	2
Transformer Oil Air Cooler	Oil-air coolers for forced-oil transformer cooling, available as direct tank-mounted or free-standing solutions.	Oil-to-air / direct tank or free-standing	2
Oil / Dielectric Pump	Compact oil circulation pumps for forced-oil transformer cooling and dielectric liquid movement.	Glandless circulation / transformer oil	2
Transformer Oil Water Cooler	Oil-water transformer coolers for high-reliability water-side cooling, especially where double-tube safety is required.	Oil-to-water / double-tube safety	3
Tank-Mounted Oil Air Cooler	Tank-mounted oil-air coolers for power transformers that need reliable forced-oil cooling without a separate free-standing structure.	Direct transformer mounting / compact footprint	2



TRANSFORMER COOLING SYSTEMS



REPRESENTATIVE EQUIPMENT

Range note

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

TRANSFORMER COOLING SYSTEMS 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-TC-083	Turnkey	Portable dielectric module	Aluminum cooler · Oil-cooled pump
NX-TC-084	Air	Remote oil-air package	Flexible yard placement · Outdoor fan cooling
NX-TC-085	Water	Remote oil-water package	High-duty water-side cooling · Plant utility integration
NX-TC-086	Premium	Hot-dip galvanized build	Long service life · Demanding environments
NX-TC-087	Advanced	Aluminum modular build	Lightweight · Standardized and adaptable
NX-TC-088	Inline	Radial or propeller impeller	Power transformer applications · Compact oil circuit
NX-TC-089	Traction	Rail transformer pump	Radial impeller · Vehicle-mounted transformers
NX-TC-090	Smart	Standard safety route	Economic potential · Good maintenance standards
NX-TC-091	Advanced	Cost-optimized advanced route	High requirements · Cost conscious projects
NX-TC-092	Premium	Frequent cleaning route	DIN-aligned planning · Heavy service access
NX-TC-093	TMOAC-Compact	Tank-mounted module	Substation footprint control · Direct oil connection
NX-TC-094	TMOAC-LowNoise	Sound-sensitive sites	Fan selection route · Grid and urban substations

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

TRANSFORMER COOLING SYSTEMS BROCHURE

APPLICATION

Where the family belongs.

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

Applications

- Grid substations
- Renewables
- Rail
- Industrial power
- Data centres
- LNG

STANDARDS & MATERIALS

The engineering framework.

Design standards

IEC 60076-2 · IEC 60076-7 · IEEE C57.12.00 · ASME VIII Div. 1

Material scope

Hot-dip galvanised steel · Aluminium · Copper · Stainless steel · C5-M coating

Industry routes

Data Centre · Power & Energy · Transportation

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
Transformer Cooling Systems Brochure	Family brochure	Rev. 04	6	Download
Transformer Cooling Systems — Installation and Maintenance	Installation manual	Rev. 02	8	Download
Transformer Cooling Systems — Certificate of Conformity	Certificate	Issued per order	1	On request
Transformer Cooling Systems — Material Test Report	Material test report	Issued per order	1	On request

TRANSFORMER COOLING SYSTEMS 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



TRANSFORMER COOLING SYSTEMS



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

TRANSFORMER COOLING SYSTEMS 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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