

PRODUCT CATALOG / REVISION 06

Eight families. Fifty product lines. 118 series. Selection data, representative variants and the document route for continuous-duty heat transfer.

EQUIPMENT FAMILIES

8

PRODUCT LINES

50

SERIES ENTRIES

118

DOCUMENTATION

167 controlled records

ISSUE

2026-10-01

REVISION

Rev. 06

CONTENTS

The range, in order.

Use the family pages for context and the line pages for the duty envelope.

SECTION	CONTENT	PAGE
01-08	Equipment families	03-18
09	Product line index	19-20
10	Series index	21-24
11	Quality & compliance	25
12	Documentation	26
13	Service & lifecycle	27
14	Contact	28

How to use this catalog

The family pages describe the engineering context. The line pages define the series routes. Variant tables are representative planning grids. Certified performance, dimensions and materials are issued against the project duty point.

Novaryn Industrial Limited

Novaryn engineers and manufactures heat transfer equipment from Houston, with project support in Europe, the Middle East and Asia Pacific. The thermal selection, the equipment envelope and the record that travels with it share one revision.

Founded
2009 / Houston, Texas

Manufacturing
14,000 m² assembly and test

Coverage
26 countries / 10 partner territories



MANUFACTURING AND ASSEMBLY / HOUSTON

Plate Heat Exchangers

Brazed, gasketed, welded, double-wall, wide-gap and semi-welded exchangers for liquid-to-liquid and refrigerant duty.



PLATE HEAT EXCHANGER INSTALLED IN A PLANT ROOM

The plate range covers sealed brazed packs, openable gasketed frames, fully welded modules and safety-separated double-wall units. Selection starts with media, temperature approach, pressure class, service access and plot space; the plate geometry and gasket material follow from those inputs.

Lines 6	Series 18
Standards ASME VIII Div. 1 · PED 2014/68/EU · AHRI 400	Materials 316L stainless · 304 stainless · Titanium · SMO 254 · NBR / EPDM / HNBR gaskets

PRODUCT LINE	FOCUS	SERIES
Brazed Plate Heat Exchangers	Compact sealed plate packs	5
Double-Wall Plate Heat Exchangers	Leak-visible separation / protected media	2
Gasketed Plate Heat Exchangers	Openable frames / flexible capacity	6
Semi-Welded Plate Heat Exchangers	Cassette plates / demanding media	2
Welded Plate Heat Exchangers	Sealed welded packs / pressure duties	1
Wide-Gap Plate Heat Exchangers	Solids-bearing fluids / wider channels	2

Family applications

- District energy
- HVAC-R
- Data centres
- Food and beverage

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-PHE-001	Watersafe	Brazed Plate Heat Exchangers	16 bar class
NX-PHE-002	Compact	Brazed Plate Heat Exchangers	35-45 bar class
NX-PHE-003	Refrigerant HP	Brazed Plate Heat Exchangers	46-140 bar class
NX-PHE-004	Double Wall	Brazed Plate Heat Exchangers	Safety separation
NX-PHE-005	Stainless	Brazed Plate Heat Exchangers	Corrosion-sensitive duties
NX-PHE-006	Gasketed	Double-Wall Plate Heat Exchangers	Inspectable framed unit
NX-PHE-007	Compact	Double-Wall Plate Heat Exchangers	Compact sealed unit
NX-PHE-008	HeatPump HP	Gasketed Plate Heat Exchangers	High-pressure semi-welded
NX-PHE-009	Universal	Gasketed Plate Heat Exchangers	DN25-DN500 connections
NX-PHE-010	District	Gasketed Plate Heat Exchangers	High NTU duties
NX-PHE-011	WideGap	Gasketed Plate Heat Exchangers	Viscous and solids-bearing media
NX-PHE-012	FreeFlow	Gasketed Plate Heat Exchangers	Fiber and solids handling
NX-PHE-013	DoubleWall	Gasketed Plate Heat Exchangers	Safety separation
NX-PHE-014	Refrigerant	Semi-Welded Plate Heat Exchangers	Ammonia and refrigerant duties
NX-PHE-015	Utility	Semi-Welded Plate Heat Exchangers	Process utility duties
NX-PHE-016	Bloc	Welded Plate Heat Exchangers	Process welded platform
NX-PHE-017	Process	Wide-Gap Plate Heat Exchangers	Viscous process fluids
NX-PHE-018	Fiber	Wide-Gap Plate Heat Exchangers	Fiber and solids handling

DOCUMENTATION

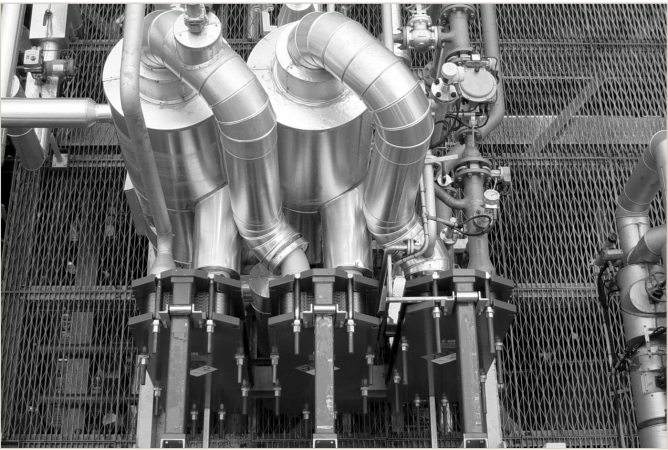
Family documents

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

DOCUMENT	TYPE	REV.	PAGES	ACCESS
Plate Heat Exchangers Brochure	Family brochure	Rev. 04	6	Download
Plate Heat Exchangers — Installation and Maintenance	Installation manual	Rev. 02	8	Download

Evaporators

Air coolers and evaporators for commercial refrigeration, blast freezing, cold rooms, preparation spaces and food processing.



INDUSTRIAL EVAPORATION AND REFRIGERATION EQUIPMENT

Evaporator selection is organised around air pattern, room type and defrost strategy. The range covers ceiling-mounted, dual-discharge, cubic, counter and draft-free units, with refrigerant options for HFC, HFO, CO₂, propane and ammonia systems.

Lines 6	Series 19
Standards ASME B31.5 · EN 378 · CE / PED · AHRI 420	Materials Copper tube · Aluminium fin · Stainless steel · Galvanised casing · Epoxy-coated coil

PRODUCT LINE	FOCUS	SERIES
Blast Freezer	High air speed / rapid pull-down	1
Ceiling Mounted Air Cooler	Small rooms / low-height spaces	3
Counter Air Cooler	Display cases / retail counters	1
Cubic Air Coolers	General cold-room workhorse	7
Draft Free Air Cooler	Gentle cooling / ripening rooms	1
Dual Discharge Air Cooler	Two-sided air throw / work rooms	6

Family applications

- Supermarkets
- Food processing
- Cold storage
- Dairy

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-EV-019	CMX	Blast Freezer	13-126 kW class
NX-EV-020	MCK	Ceiling Mounted Air Cooler	1.5-11 kW class
NX-EV-021	KCC	Ceiling Mounted Air Cooler	0.5-2 kW class
NX-EV-022	MCC	Ceiling Mounted Air Cooler	1.5-10 kW class
NX-EV-023	Gastro	Counter Air Cooler	0.1-0.35 kW class
NX-EV-024	FLF/FLH	Cubic Air Coolers	10-240 kW class
NX-EV-025	SG Commercial	Cubic Air Coolers	0.4-65 kW class
NX-EV-026	VRS	Cubic Air Coolers	5-55 kW class
NX-EV-027	VNS	Cubic Air Coolers	9-66 kW class
NX-EV-028	CS/CB	Cubic Air Coolers	7.4-175 kW class
NX-EV-029	KSC/MSC	Cubic Air Coolers	0.8-50 kW class
NX-EV-030	SG Classic	Cubic Air Coolers	0.9-23 kW class
NX-EV-031	KVB	Draft Free Air Cooler	0.6-4.4 kW class
NX-EV-032	CDK/CDL	Dual Discharge Air Cooler	7-130 kW class
NX-EV-033	CDF/CDH	Dual Discharge Air Cooler	6.1-154 kW class
NX-EV-034	KDC	Dual Discharge Air Cooler	2-23 kW class
NX-EV-035	DRR	Dual Discharge Air Cooler	7-70 kW class
NX-EV-036	DVR	Dual Discharge Air Cooler	7-70 kW class
NX-EV-037	DZS	Dual Discharge Air Cooler	3-139 kW class

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
Evaporators Brochure	Family brochure	Rev. 04	6	Download
Evaporators — Installation and Maintenance	Installation manual	Rev. 02	8	Download

Heat Rejection & Heat Recovery

Cooling towers, dry coolers, condensers, adiabatic and hybrid systems for site-scale heat rejection and recovery.



ROOFTOP COOLING TOWER INSTALLATION

A site-scale range for rejecting, recovering or reusing heat across data centres, refrigeration plants, industry, power and district energy. Selection balances ambient design conditions, water availability, noise, plume, plot space and annual energy use.

Lines
9

Series
22

Standards
ASME VIII Div. 1 · API 661 · CTI ATC-105 · PED 2014/68/EU

Materials
Hot-dip galvanised steel · Stainless steel · Aluminium fins · CuNi tube · C5-M coating

PRODUCT LINE	FOCUS	SERIES
Adiabatic Systems	Evaporative assist / hot ambient resilience	2
Air Cooled Condensers	Steam condensation / A-frame	3
Air Fin Coolers	Finned-tube bundles / major industry	2
Cascade Cooling	Dry, wet, and mixed mode	1
Cooling Towers	Evaporative rejection / modular towers	2
Flatbed Condenser / Drycooler	Horizontal outdoor cooler range	4
Hybrid Coolers	Dry and evaporative cooling in one unit	2
Mega-Bay & Giga-Bay Cooling	Modular heat rejection at hyperscale	2
V-Shape Condenser / Drycooler	High-density V-bank outdoor cooling	4

NOVARYN THERMAL EQUIPMENT CATALOG

HEAT REJECTION & HEAT RECOVERY / SERIES

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-HR-038	Spray	Adiabatic Systems	Spray nozzle assist
NX-HR-039	Pad	Adiabatic Systems	Pad assist
NX-HR-040	MASH	Air Cooled Condensers	A-frame vacuum condenser
NX-HR-041	Single Row	Air Cooled Condensers	Low steam-side pressure drop
NX-HR-042	A-Tube	Air Cooled Condensers	Corrosion-protected tube platform
NX-HR-043	Diesta	Air Fin Coolers	Heavy industrial AFC
NX-HR-044	Advanced Fin	Air Fin Coolers	High-performance fin platform
NX-HR-045	Hybrid	Cascade Cooling	Site-scale modules
NX-HR-046	Frigate	Cooling Towers	Up to 25 MW unit class
NX-HR-047	Field	Cooling Towers	Up to 100 MW unit class
NX-HR-048	LF Drycooler	Flatbed Condenser / Drycooler	21-1290 kW class
NX-HR-049	LF-S Drycooler	Flatbed Condenser / Drycooler	8-125 kW class
NX-HR-050	RF/GF-S	Flatbed Condenser / Drycooler	6.4-183 kW class
NX-HR-051	RF/GF/NF	Flatbed Condenser / Drycooler	11-1424 kW class
NX-HR-052	DryAssist	Hybrid Coolers	Drycooler with evaporative assist
NX-HR-053	Process	Hybrid Coolers	Industrial hybrid cooling
NX-HR-054	MB Pre-Engineered	Mega-Bay & Giga-Bay Cooling	1.5-4 MW module class
NX-HR-055	GB Tailored Bay	Mega-Bay & Giga-Bay Cooling	4-8 MW module class
NX-HR-056	RV/NV/GV T-L	V-Shape Condenser / Drycooler	12.5-2805 kW class
NX-HR-057	RV/NV/GV M	V-Shape Condenser / Drycooler	7-527 kW class
NX-HR-058	LV-M Drycooler	V-Shape Condenser / Drycooler	6-395 kW class
NX-HR-059	LV-TL Drycooler	V-Shape Condenser / Drycooler	10-2140 kW class

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
Heat Rejection & Heat Recovery Brochure	Family brochure	Rev. 04	6	Download
Heat Rejection & Heat Recovery — Installation and Maintenance	Installation manual	Rev. 02	8	Download

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.

Lines
6

Series
7

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

Materials
Carbon steel · Stainless steel · CuNi · Titanium · Aluminium

PRODUCT LINE	FOCUS	SERIES
Box Coolers	Sea chest cooling / vessel systems	2
Charge Air Coolers	Combustion air cooling / engine performance	1
Closed Circuit Coolers	Recirculating gas or liquid cooling	1
Compressor Coolers / Pressure Gas Coolers	Compressed gas cooling / process gas	1
Exhaust Gas Heat Exchanger	Waste heat recovery / compact stainless modules	1
Exhaust Gas Recirculation Cooler	EGR cooling / emissions reduction	1

Family applications

- Power generation
- Marine
- Rail
- Oil and gas

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-EC-060	Round	Box Coolers	Small cooling surfaces
NX-EC-061	Rectangular	Box Coolers	Large cooling surfaces
NX-EC-062	Engine	Charge Air Coolers	OEM and replacement modules
NX-EC-063	Industrial	Closed Circuit Coolers	Custom engineered
NX-EC-064	Pressure	Compressor Coolers / Pressure Gas Coolers	Water-cooled pressure gas cooler
NX-EC-065	Recover	Exhaust Gas Heat Exchanger	Compact modular platform
NX-EC-066	Engine	Exhaust Gas Recirculation Cooler	Medium and low-speed engines

DOCUMENTATION

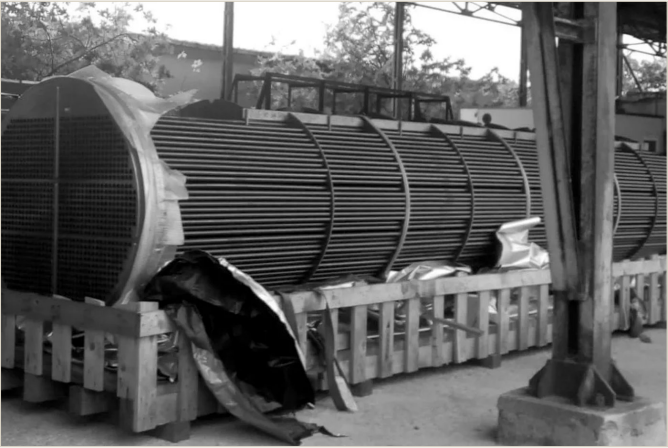
Family documents

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

Process Heat Transfer

Bonded plate, diffusion-bonded, welded plate and shell-and-tube exchangers for difficult media, pressure and temperature duty.



SHELL AND TUBE HEAT EXCHANGER BUNDLE

Process exchangers for difficult media, high pressure, cryogenic duty, safety separation and gas-component separation. The range spans compact bonded cores, large welded plate modules and shell-and-tube units, each selected against process conditions and lifecycle requirements.

Lines 6	Series 16
Standards ASME VIII Div. 1 / Div. 2 · TEMA R / C / B · API 660 · API 661	Materials 316L stainless · Duplex 2205 · Titanium · Nickel alloys · Carbon steel

PRODUCT LINE	FOCUS	SERIES
Bonded Plate Process Heat Exchanger	Bonded plate core / compact process duty	2
Desublimators	Gas separation / cooled fin surfaces	3
K-Flex Style Plate Heat Exchanger	Large welded plate modules / low pressure drop	1
Diffusion Bonded Heat Exchanger	Extreme pressure / compact bonded core	2
Shell & Tube Double Safety	Leak-monitored double tube systems	3
Shell & Tube Single	Robust shell-and-tube / modular families	5

Family applications

- LNG
- Chemicals
- Hydrogen
- Pharmaceutical

NOVARYN THERMAL EQUIPMENT CATALOG

PROCESS HEAT TRANSFER / SERIES

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-PT-067	Compact	Bonded Plate Process Heat Exchanger	Modular bonded plate core
NX-PT-068	Severe	Bonded Plate Process Heat Exchanger	Demanding process service
NX-PT-069	High Pressure	Desublimators	Pressure desublimator
NX-PT-070	Mini	Desublimators	Compact desublimator
NX-PT-071	Switch	Desublimators	Switch condenser
NX-PT-072	LowDrop	K-Flex Style Plate Heat Exchanger	2,500-12,000 m2 planning class
NX-PT-073	HHX	Diffusion Bonded Heat Exchanger	Hydrogen heavy-duty class
NX-PT-074	SHX	Diffusion Bonded Heat Exchanger	Severe process class
NX-PT-075	Standard	Shell & Tube Double Safety	Cost-efficient safety route
NX-PT-076	Welded	Shell & Tube Double Safety	Demanding requirement route
NX-PT-077	Sustainable	Shell & Tube Double Safety	Special application route
NX-PT-078	ST-A	Shell & Tube Single	Brazed aluminum shell
NX-PT-079	ST-P	Shell & Tube Single	Compact modular unit
NX-PT-080	ST-R	Shell & Tube Single	Refrigeration unit
NX-PT-081	ST-V	Shell & Tube Single	Viscous/high-temperature media
NX-PT-082	ST-N	Shell & Tube Single	Fully customized unit

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
Process Heat Transfer Brochure	Family brochure	Rev. 04	6	Download
Process Heat Transfer — Installation and Maintenance	Installation manual	Rev. 02	8	Download

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.

Lines 6	Series 12
Standards IEC 60076-2 · IEC 60076-7 · IEEE C57.12.00 · ASME VIII Div. 1	Materials Hot-dip galvanised steel · Aluminium · Copper · Stainless steel · C5-M coating

PRODUCT LINE	FOCUS	SERIES
Dielectric Modular Air Cooler	Immersion cooling / turnkey module	1
Free-Standing Oil Cooling Unit	Remote transformer cooling / service access	2
Transformer Oil Air Cooler	Oil-to-air / direct tank or free-standing	2
Oil / Dielectric Pump	Glandless circulation / transformer oil	2
Transformer Oil Water Cooler	Oil-to-water / double-tube safety	3
Tank-Mounted Oil Air Cooler	Direct transformer mounting / compact footprint	2

Family applications

- Grid substations
- Renewables
- Rail
- Industrial power

NOVARYN THERMAL EQUIPMENT CATALOG

TRANSFORMER COOLING SYSTEMS / SERIES

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-TC-083	Turnkey	Dielectric Modular Air Cooler	Portable dielectric module
NX-TC-084	Air	Free-Standing Oil Cooling Unit	Remote oil-air package
NX-TC-085	Water	Free-Standing Oil Cooling Unit	Remote oil-water package
NX-TC-086	Premium	Transformer Oil Air Cooler	Hot-dip galvanized build
NX-TC-087	Advanced	Transformer Oil Air Cooler	Aluminum modular build
NX-TC-088	Inline	Oil / Dielectric Pump	Radial or propeller impeller
NX-TC-089	Traction	Oil / Dielectric Pump	Rail transformer pump
NX-TC-090	Smart	Transformer Oil Water Cooler	Standard safety route
NX-TC-091	Advanced	Transformer Oil Water Cooler	Cost-optimized advanced route
NX-TC-092	Premium	Transformer Oil Water Cooler	Frequent cleaning route
NX-TC-093	TMOAC-Compact	Tank-Mounted Oil Air Cooler	Tank-mounted module
NX-TC-094	TMOAC-LowNoise	Tank-Mounted Oil Air Cooler	Sound-sensitive sites

DOCUMENTATION

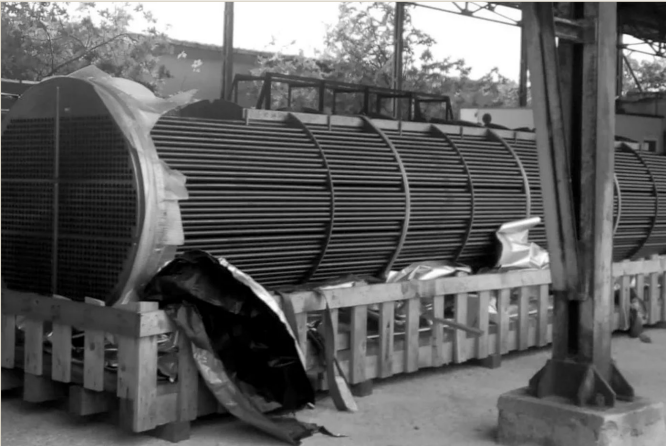
Family documents

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

Coils

Condenser, cooling, evaporator, heating and replacement coils for HVAC, refrigeration and process air systems.



FINNED TUBE HEAT EXCHANGER BUNDLE

Custom finned-tube coils for heating, cooling, condensing, evaporating and air-handling applications. Coils are selected around airflow, face velocity, pressure drop, fin spacing, tube material, casing and cleaning access.

Lines 6	Series 14
Standards AHRI 410 · ASME B31.5 · EN 327 · PED 2014/68/EU	Materials Copper tube · Aluminium fin · Stainless steel · Cupronickel · Galvanised casing

PRODUCT LINE	FOCUS	SERIES
Condenser Coils	Refrigerant condensing / outdoor units	2
Cooling Coils	Chilled water and glycol air cooling	2
Evaporator Coils	Direct expansion / room and process cooling	2
Heating Coils	Hot water, steam, and thermal oil air heating	2
Industrial Coils	Custom coil blocks / HVAC and process air	4
Replacement Coil Blocks	Retrofit coils / measured-to-fit replacement	2

Family applications

- HVAC
- Refrigeration
- Food processing
- Data centres

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-CL-095	Standard	Condenser Coils	Commercial condenser coils
NX-CL-096	Coated	Condenser Coils	Corrosion-protected coils
NX-CL-097	Chilled	Cooling Coils	Chilled-water cooling
NX-CL-098	Glycol	Cooling Coils	Low-temperature glycol coils
NX-CL-099	MT	Evaporator Coils	Medium-temperature evaporator coil
NX-CL-100	LT	Evaporator Coils	Low-temperature evaporator coil
NX-CL-101	Water	Heating Coils	Hot water and glycol coils
NX-CL-102	Steam	Heating Coils	Steam heating coils
NX-CL-103	HVAC	Industrial Coils	Air handling coils
NX-CL-104	Refrigeration	Industrial Coils	Condensing and evaporating coils
NX-CL-105	Industrial	Industrial Coils	Process air coils
NX-CL-106	OEM	Industrial Coils	Series equipment coils
NX-CL-107	LikeForLike	Replacement Coil Blocks	Direct replacement coil
NX-CL-108	Upgrade	Replacement Coil Blocks	Material or performance upgrade

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
Coils Brochure	Family brochure	Rev. 04	6	Download
Coils — Installation and Maintenance	Installation manual	Rev. 02	8	Download

NOVARYN THERMAL EQUIPMENT CATALOG

AIR, EXHAUST AND WASTE-HEAT SYSTEMS

Heating Solutions

Air preheaters, air-to-air exchangers, economisers, dryers and recuperative gas exchangers for process and waste-heat duty.



INDUSTRIAL BOILER AND PROCESS PIPEWORK

Heating and heat-recovery equipment for process air, exhaust gas, economiser, drying and industrial thermal-control duties. The range is built around heat source, heated medium, fouling risk, materials and available plot space.

Lines 5	Series 10
Standards ASME VIII Div. 1 · EN 13445 · API 560 · PED 2014/68/EU	Materials Carbon steel · Stainless steel · Laser-finned tube · Aluminium · Specialist alloys

PRODUCT LINE	FOCUS	SERIES
Air Dryer	Drying air / polluted or hygienic streams	3
Air Preheater	Preheated air / heat recovery	1
Air to Air Heat Exchanger	Exhaust-to-fresh-air recovery	2
Economisers	Waste heat to water, oil, or air	2
Recuperative Gas Heat Exchanger	Fully welded gas-to-gas recovery	2

Family applications

- Power
- Pulp and paper
- Steel
- Waste-to-energy

The family ledger.

Configuration routes across the family. Project-specific codes and ratings are confirmed at order.

CODE	SERIES	LINE	RANGE / APPLICATION
NX-HS-109	Galvanized	Air Dryer	Heavy industrial drying
NX-HS-110	Stainless	Air Dryer	Hygienic or aggressive media
NX-HS-111	PlainTube	Air Dryer	Heavy pollution
NX-HS-112	Industrial	Air Preheater	Plain or finned tube
NX-HS-113	Glued	Air to Air Heat Exchanger	Up to 180 C class
NX-HS-114	Welded	Air to Air Heat Exchanger	Up to 1000 C experience class
NX-HS-115	Standard	Economisers	Custom economiser
NX-HS-116	Modular	Economisers	Standardized modular system
NX-HS-117	Compact	Recuperative Gas Heat Exchanger	Gas-to-gas recovery
NX-HS-118	CCS	Recuperative Gas Heat Exchanger	Carbon capture support

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
Heating Solutions Brochure	Family brochure	Rev. 04	6	Download
Heating Solutions — Installation and Maintenance	Installation manual	Rev. 02	8	Download

Product line index / 01

Fifty lines across eight equipment families.

PRODUCT LINE	FAMILY	KICKER	SERIES
Brazed Plate Heat Exchangers	Plate exchangers	Compact sealed plate packs	5
Double-Wall Plate Heat Exchangers	Plate exchangers	Leak-visible separation / protected media	2
Gasketed Plate Heat Exchangers	Plate exchangers	Openable frames / flexible capacity	6
Semi-Welded Plate Heat Exchangers	Plate exchangers	Cassette plates / demanding media	2
Welded Plate Heat Exchangers	Plate exchangers	Sealed welded packs / pressure duties	1
Wide-Gap Plate Heat Exchangers	Plate exchangers	Solids-bearing fluids / wider channels	2
Blast Freezer	Evaporators	High air speed / rapid pull-down	1
Ceiling Mounted Air Cooler	Evaporators	Small rooms / low-height spaces	3
Counter Air Cooler	Evaporators	Display cases / retail counters	1
Cubic Air Coolers	Evaporators	General cold-room workhorse	7
Draft Free Air Cooler	Evaporators	Gentle cooling / ripening rooms	1
Dual Discharge Air Cooler	Evaporators	Two-sided air throw / work rooms	6
Adiabatic Systems	Heat rejection	Evaporative assist / hot ambient resilience	2
Air Cooled Condensers	Heat rejection	Steam condensation / A-frame	3
Air Fin Coolers	Heat rejection	Finned-tube bundles / major industry	2
Cascade Cooling	Heat rejection	Dry, wet, and mixed mode	1
Cooling Towers	Heat rejection	Evaporative rejection / modular towers	2
Flatbed Condenser / Drycooler	Heat rejection	Horizontal outdoor cooler range	4
Hybrid Coolers	Heat rejection	Dry and evaporative cooling in one unit	2
Mega-Bay & Giga-Bay Cooling	Heat rejection	Modular heat rejection at hyperscale	2
V-Shape Condenser / Drycooler	Heat rejection	High-density V-bank outdoor cooling	4
Box Coolers	Engine cooling	Sea chest cooling / vessel systems	2
Charge Air Coolers	Engine cooling	Combustion air cooling / engine performance	1
Closed Circuit Coolers	Engine cooling	Recirculating gas or liquid cooling	1
Compressor Coolers / Pressure Gas Coolers	Engine cooling	Compressed gas cooling / process gas	1

Reading the index

Line entries point to the family page and the series ledger. The series code is the catalogue reference; the project model code is confirmed at order.

INDEX

Product line index / 02

Fifty lines across eight equipment families.

PRODUCT LINE	FAMILY	KICKER	SERIES
Exhaust Gas Heat Exchanger	Engine cooling	Waste heat recovery / compact stainless modules	1
Exhaust Gas Recirculation Cooler	Engine cooling	EGR cooling / emissions reduction	1
Bonded Plate Process Heat Exchanger	Process transfer	Bonded plate core / compact process duty	2
Desublimators	Process transfer	Gas separation / cooled fin surfaces	3
K-Flex Style Plate Heat Exchanger	Process transfer	Large welded plate modules / low pressure drop	1
Diffusion Bonded Heat Exchanger	Process transfer	Extreme pressure / compact bonded core	2
Shell & Tube Double Safety	Process transfer	Leak-monitored double tube systems	3
Shell & Tube Single	Process transfer	Robust shell-and-tube / modular families	5
Dielectric Modular Air Cooler	Transformer cooling	Immersion cooling / turnkey module	1
Free-Standing Oil Cooling Unit	Transformer cooling	Remote transformer cooling / service access	2
Transformer Oil Air Cooler	Transformer cooling	Oil-to-air / direct tank or free-standing	2
Oil / Dielectric Pump	Transformer cooling	Glandless circulation / transformer oil	2
Transformer Oil Water Cooler	Transformer cooling	Oil-to-water / double-tube safety	3
Tank-Mounted Oil Air Cooler	Transformer cooling	Direct transformer mounting / compact footprint	2
Condenser Coils	Coils	Refrigerant condensing / outdoor units	2
Cooling Coils	Coils	Chilled water and glycol air cooling	2
Evaporator Coils	Coils	Direct expansion / room and process cooling	2
Heating Coils	Coils	Hot water, steam, and thermal oil air heating	2
Industrial Coils	Coils	Custom coil blocks / HVAC and process air	4
Replacement Coil Blocks	Coils	Retrofit coils / measured-to-fit replacement	2
Air Dryer	Heating	Drying air / polluted or hygienic streams	3
Air Preheater	Heating	Preheated air / heat recovery	1
Air to Air Heat Exchanger	Heating	Exhaust-to-fresh-air recovery	2
Economisers	Heating	Waste heat to water, oil, or air	2
Recuperative Gas Heat Exchanger	Heating	Fully welded gas-to-gas recovery	2

From line to envelope

Use the line datasheet for planning values and the GA drawing for the interface envelope. Certified data replaces both at order release.

Series index / 01

118 configuration routes. Codes are catalogue references, not certified model numbers.

CODE	FAMILY	PRODUCT LINE	SERIES	RANGE
NX-PHE-001	Plate exchangers	Brazed Plate Heat Exchangers	Watersafe	16 bar class
NX-PHE-002	Plate exchangers	Brazed Plate Heat Exchangers	Compact	35-45 bar class
NX-PHE-003	Plate exchangers	Brazed Plate Heat Exchangers	Refrigerant HP	46-140 bar class
NX-PHE-004	Plate exchangers	Brazed Plate Heat Exchangers	Double Wall	Safety separation
NX-PHE-005	Plate exchangers	Brazed Plate Heat Exchangers	Stainless	Corrosion-sensitive duties
NX-PHE-006	Plate exchangers	Double-Wall Plate Heat Exchangers	Gasketed	Inspectable framed unit
NX-PHE-007	Plate exchangers	Double-Wall Plate Heat Exchangers	Compact	Compact sealed unit
NX-PHE-008	Plate exchangers	Gasketed Plate Heat Exchangers	HeatPump HP	High-pressure semi-welded
NX-PHE-009	Plate exchangers	Gasketed Plate Heat Exchangers	Universal	DN25-DN500 connections
NX-PHE-010	Plate exchangers	Gasketed Plate Heat Exchangers	District	High NTU duties
NX-PHE-011	Plate exchangers	Gasketed Plate Heat Exchangers	WideGap	Viscous and solids-bearing media
NX-PHE-012	Plate exchangers	Gasketed Plate Heat Exchangers	FreeFlow	Fiber and solids handling
NX-PHE-013	Plate exchangers	Gasketed Plate Heat Exchangers	DoubleWall	Safety separation
NX-PHE-014	Plate exchangers	Semi-Welded Plate Heat Exchangers	Refrigerant	Ammonia and refrigerant duties
NX-PHE-015	Plate exchangers	Semi-Welded Plate Heat Exchangers	Utility	Process utility duties
NX-PHE-016	Plate exchangers	Welded Plate Heat Exchangers	Bloc	Process welded platform
NX-PHE-017	Plate exchangers	Wide-Gap Plate Heat Exchangers	Process	Viscous process fluids
NX-PHE-018	Plate exchangers	Wide-Gap Plate Heat Exchangers	Fiber	Fiber and solids handling
NX-EV-019	Evaporators	Blast Freezer	CMX	13-126 kW class
NX-EV-020	Evaporators	Ceiling Mounted Air Cooler	MCK	1.5-11 kW class
NX-EV-021	Evaporators	Ceiling Mounted Air Cooler	KCC	0.5-2 kW class
NX-EV-022	Evaporators	Ceiling Mounted Air Cooler	MCC	1.5-10 kW class
NX-EV-023	Evaporators	Counter Air Cooler	Gastro	0.1-0.35 kW class
NX-EV-024	Evaporators	Cubic Air Coolers	FLF/FLH	10-240 kW class
NX-EV-025	Evaporators	Cubic Air Coolers	SG Commercial	0.4-65 kW class
NX-EV-026	Evaporators	Cubic Air Coolers	VRS	5-55 kW class
NX-EV-027	Evaporators	Cubic Air Coolers	VNS	9-66 kW class
NX-EV-028	Evaporators	Cubic Air Coolers	CS/CB	7.4-175 kW class
NX-EV-029	Evaporators	Cubic Air Coolers	KSC/MSC	0.8-50 kW class
NX-EV-030	Evaporators	Cubic Air Coolers	SG Classic	0.9-23 kW class

Series index / 02

118 configuration routes. Codes are catalogue references, not certified model numbers.

CODE	FAMILY	PRODUCT LINE	SERIES	RANGE
NX-EV-031	Evaporators	Draft Free Air Cooler	KVB	0.6-4.4 kW class
NX-EV-032	Evaporators	Dual Discharge Air Cooler	CDK/CDL	7-130 kW class
NX-EV-033	Evaporators	Dual Discharge Air Cooler	CDF/CDH	6.1-154 kW class
NX-EV-034	Evaporators	Dual Discharge Air Cooler	KDC	2-23 kW class
NX-EV-035	Evaporators	Dual Discharge Air Cooler	DRR	7-70 kW class
NX-EV-036	Evaporators	Dual Discharge Air Cooler	DVR	7-70 kW class
NX-EV-037	Evaporators	Dual Discharge Air Cooler	DZS	3-139 kW class
NX-HR-038	Heat rejection	Adiabatic Systems	Spray	Spray nozzle assist
NX-HR-039	Heat rejection	Adiabatic Systems	Pad	Pad assist
NX-HR-040	Heat rejection	Air Cooled Condensers	MASH	A-frame vacuum condenser
NX-HR-041	Heat rejection	Air Cooled Condensers	Single Row	Low steam-side pressure drop
NX-HR-042	Heat rejection	Air Cooled Condensers	A-Tube	Corrosion-protected tube platform
NX-HR-043	Heat rejection	Air Fin Coolers	Diesta	Heavy industrial AFC
NX-HR-044	Heat rejection	Air Fin Coolers	Advanced Fin	High-performance fin platform
NX-HR-045	Heat rejection	Cascade Cooling	Hybrid	Site-scale modules
NX-HR-046	Heat rejection	Cooling Towers	Frigate	Up to 25 MW unit class
NX-HR-047	Heat rejection	Cooling Towers	Field	Up to 100 MW unit class
NX-HR-048	Heat rejection	Flatbed Condenser / Drycooler	LF Drycooler	21-1290 kW class
NX-HR-049	Heat rejection	Flatbed Condenser / Drycooler	LF-S Drycooler	8-125 kW class
NX-HR-050	Heat rejection	Flatbed Condenser / Drycooler	RF/GF-S	6.4-183 kW class
NX-HR-051	Heat rejection	Flatbed Condenser / Drycooler	RF/GF/NF	11-1424 kW class
NX-HR-052	Heat rejection	Hybrid Coolers	DryAssist	Drycooler with evaporative assist
NX-HR-053	Heat rejection	Hybrid Coolers	Process	Industrial hybrid cooling
NX-HR-054	Heat rejection	Mega-Bay & Giga-Bay Cooling	MB Pre-Engineered	1.5-4 MW module class
NX-HR-055	Heat rejection	Mega-Bay & Giga-Bay Cooling	GB Tailored Bay	4-8 MW module class
NX-HR-056	Heat rejection	V-Shape Condenser / Drycooler	RV/NV/GV T-L	12.5-2805 kW class
NX-HR-057	Heat rejection	V-Shape Condenser / Drycooler	RV/NV/GV M	7-527 kW class
NX-HR-058	Heat rejection	V-Shape Condenser / Drycooler	LV-M Drycooler	6-395 kW class
NX-HR-059	Heat rejection	V-Shape Condenser / Drycooler	LV-TL Drycooler	10-2140 kW class
NX-EC-060	Engine cooling	Box Coolers	Round	Small cooling surfaces

Series index / 03

118 configuration routes. Codes are catalogue references, not certified model numbers.

CODE	FAMILY	PRODUCT LINE	SERIES	RANGE
NX-EC-061	Engine cooling	Box Coolers	Rectangular	Large cooling surfaces
NX-EC-062	Engine cooling	Charge Air Coolers	Engine	OEM and replacement modules
NX-EC-063	Engine cooling	Closed Circuit Coolers	Industrial	Custom engineered
NX-EC-064	Engine cooling	Compressor Coolers / Pressure Gas Coolers	Pressure	Water-cooled pressure gas cooler
NX-EC-065	Engine cooling	Exhaust Gas Heat Exchanger	Recover	Compact modular platform
NX-EC-066	Engine cooling	Exhaust Gas Recirculation Cooler	Engine	Medium and low-speed engines
NX-PT-067	Process transfer	Bonded Plate Process Heat Exchanger	Compact	Modular bonded plate core
NX-PT-068	Process transfer	Bonded Plate Process Heat Exchanger	Severe	Demanding process service
NX-PT-069	Process transfer	Desublimators	High Pressure	Pressure desublimator
NX-PT-070	Process transfer	Desublimators	Mini	Compact desublimator
NX-PT-071	Process transfer	Desublimators	Switch	Switch condenser
NX-PT-072	Process transfer	K-Flex Style Plate Heat Exchanger	LowDrop	2,500-12,000 m2 planning class
NX-PT-073	Process transfer	Diffusion Bonded Heat Exchanger	HHX	Hydrogen heavy-duty class
NX-PT-074	Process transfer	Diffusion Bonded Heat Exchanger	SHX	Severe process class
NX-PT-075	Process transfer	Shell & Tube Double Safety	Standard	Cost-efficient safety route
NX-PT-076	Process transfer	Shell & Tube Double Safety	Welded	Demanding requirement route
NX-PT-077	Process transfer	Shell & Tube Double Safety	Sustainable	Special application route
NX-PT-078	Process transfer	Shell & Tube Single	ST-A	Brazed aluminum shell
NX-PT-079	Process transfer	Shell & Tube Single	ST-P	Compact modular unit
NX-PT-080	Process transfer	Shell & Tube Single	ST-R	Refrigeration unit
NX-PT-081	Process transfer	Shell & Tube Single	ST-V	Viscous/high-temperature media
NX-PT-082	Process transfer	Shell & Tube Single	ST-N	Fully customized unit
NX-TC-083	Transformer cooling	Dielectric Modular Air Cooler	Turnkey	Portable dielectric module
NX-TC-084	Transformer cooling	Free-Standing Oil Cooling Unit	Air	Remote oil-air package
NX-TC-085	Transformer cooling	Free-Standing Oil Cooling Unit	Water	Remote oil-water package
NX-TC-086	Transformer cooling	Transformer Oil Air Cooler	Premium	Hot-dip galvanized build
NX-TC-087	Transformer cooling	Transformer Oil Air Cooler	Advanced	Aluminum modular build
NX-TC-088	Transformer cooling	Oil / Dielectric Pump	Inline	Radial or propeller impeller
NX-TC-089	Transformer cooling	Oil / Dielectric Pump	Traction	Rail transformer pump
NX-TC-090	Transformer cooling	Transformer Oil Water Cooler	Smart	Standard safety route

Series index / 04

118 configuration routes. Codes are catalogue references, not certified model numbers.

CODE	FAMILY	PRODUCT LINE	SERIES	RANGE
NX-TC-091	Transformer cooling	Transformer Oil Water Cooler	Advanced	Cost-optimized advanced route
NX-TC-092	Transformer cooling	Transformer Oil Water Cooler	Premium	Frequent cleaning route
NX-TC-093	Transformer cooling	Tank-Mounted Oil Air Cooler	TMOAC-Compact	Tank-mounted module
NX-TC-094	Transformer cooling	Tank-Mounted Oil Air Cooler	TMOAC-LowNoise	Sound-sensitive sites
NX-CL-095	Coils	Condenser Coils	Standard	Commercial condenser coils
NX-CL-096	Coils	Condenser Coils	Coated	Corrosion-protected coils
NX-CL-097	Coils	Cooling Coils	Chilled	Chilled-water cooling
NX-CL-098	Coils	Cooling Coils	Glycol	Low-temperature glycol coils
NX-CL-099	Coils	Evaporator Coils	MT	Medium-temperature evaporator coil
NX-CL-100	Coils	Evaporator Coils	LT	Low-temperature evaporator coil
NX-CL-101	Coils	Heating Coils	Water	Hot water and glycol coils
NX-CL-102	Coils	Heating Coils	Steam	Steam heating coils
NX-CL-103	Coils	Industrial Coils	HVAC	Air handling coils
NX-CL-104	Coils	Industrial Coils	Refrigeration	Condensing and evaporating coils
NX-CL-105	Coils	Industrial Coils	Industrial	Process air coils
NX-CL-106	Coils	Industrial Coils	OEM	Series equipment coils
NX-CL-107	Coils	Replacement Coil Blocks	LikeForLike	Direct replacement coil
NX-CL-108	Coils	Replacement Coil Blocks	Upgrade	Material or performance upgrade
NX-HS-109	Heating	Air Dryer	Galvanized	Heavy industrial drying
NX-HS-110	Heating	Air Dryer	Stainless	Hygienic or aggressive media
NX-HS-111	Heating	Air Dryer	PlainTube	Heavy pollution
NX-HS-112	Heating	Air Preheater	Industrial	Plain or finned tube
NX-HS-113	Heating	Air to Air Heat Exchanger	Glued	Up to 180 C class
NX-HS-114	Heating	Air to Air Heat Exchanger	Welded	Up to 1000 C experience class
NX-HS-115	Heating	Economisers	Standard	Custom economiser
NX-HS-116	Heating	Economisers	Modular	Standardized modular system
NX-HS-117	Heating	Recuperative Gas Heat Exchanger	Compact	Gas-to-gas recovery
NX-HS-118	Heating	Recuperative Gas Heat Exchanger	CCS	Carbon capture support

QUALITY

The release is part of the product.

Approvals, traceability, inspection and test records are controlled through one quality file.

APPROVAL	SCOPE	BODY	STATUS
ISO 9001:2015	Quality management system	LRQA	Current
ISO 14001:2015	Environmental management	LRQA	Current
PED 2014/68/EU	Pressure equipment — Module H	TÜV	Current
ASME U / U2	Pressure vessels — Div. 1 and Div. 2	ASME	Current
ASME S	Power boilers	ASME	Current
IEC 60076-7	Transformer cooling qualification	Internal	Tested

- Design input review and project quality plan
- Material traceability to EN 10204 3.1
- Welder qualification, WPS/PQR and NDT control
- Hydrostatic, leak, dimensional and performance testing
- Serial-indexed handover dossier and certificates



REPRESENTATIVE PRESSURE BOUNDARY / RELEASE RECORD

Release file

The order file holds the approved drawing, material certificates, test records and the final inspection release. It travels with the serial number.

DOCUMENTATION

One record, one revision.

The library holds public selection and installation documents. Certificates and material reports are issued against the order.

DOCUMENT TYPE	SCOPE	AVAILABILITY
Full catalog	All families	Public PDF
Family brochure	One per family	Public PDF
Datasheet	One per product line	Public PDF
Product overview	One per product line	Public PDF
General arrangement	One per product line	Public PDF
Installation manual	One per family	Public PDF
Certificate of conformity	Per order	On request
Material test report	Per order	On request

This catalog is a representative selection document. It does not replace the project datasheet, approved drawing or order-specific certificate. The revision on the document is the controlling revision.



DOCUMENT AND ASSEMBLY RECORD / HOUSTON

Revision control

Public documents carry the revision shown in the header. Project documents are indexed by order, serial number and approved drawing revision.

SERVICE

The unit does not end at dispatch.

Spares, inspection, cleaning, retrofit and commissioning are tied to the serial record.

- Serial-matched spares and consumables
- Condition assessment, cleaning and performance review
- Retrofit, capacity uplift and refrigerant transition
- Commissioning and field service through the partner network
- Installation and maintenance manuals from the library

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



REPRESENTATIVE SERVICE AND RETROFIT SCOPE

Service record

Provide the nameplate serial, operating data and the reason for the intervention. The service route is matched to the original selection and revision.

CONTACT

Start with the duty.

Send the media, flow, temperatures, pressure, ambient conditions and the constraint you cannot move.



PLATE HEAT EXCHANGER / SERVICEABLE FRAME

Engineering
engineering@novarynindustrial.com

Sales
sales@novarynindustrial.com

Telephone
+1 (713) 555-0186

Headquarters
4800 Federal Road, Houston, TX 77032

ENGINEERING & SALES

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.

Engineering engineering@novarynindustrial.com
Sales sales@novarynindustrial.com
Telephone +1 (713) 555-0186
Address 4800 Federal Road, Houston, TX 77032, United States
Web www.novarynindustrial.com

Document control

This document is uncontrolled when printed. The revision shown in the header is the controlling revision. Project-specific drawings, datasheets and certificates replace the representative content at order release.