

FAMILY BROCHURE / 05 LINES / 10 SERIES

Heating Solutions

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

EQUIPMENT FAMILY

Heating Solutions

PRODUCT LINES

5

SERIES ENTRIES

10

CORE STANDARDS

ASME VIII Div. 1 · EN 13445 · API 560 · PED 2014/68/EU

MATERIAL SCOPE

Carbon steel · Stainless steel · Laser-finned tube ·
Aluminium · Specialist alloys

REVISION

Rev. 04 · 2026-10-01

HEATING SOLUTIONS BROCHURE

FAMILY

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.

Product lines
5

Design standards
ASME VIII Div. 1 · EN 13445 · API 560 · PED 2014/68/EU

Material scope
Carbon steel · Stainless steel · Laser-finned tube ·
Aluminium · Specialist alloys

Application scope
Power · Pulp and paper · Steel · Waste-to-energy · Food
processing · Carbon capture

Selection route

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

RANGE

5 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
Air Dryer	Air dryers and drying heat exchangers for heavy industrial loadings, high temperatures, hygienic standards, or aggressive media.	Drying air / polluted or hygienic streams	3
Air Preheater	Air preheaters for heating, cooling, condensation, and heat recovery with plain or finned tube systems.	Preheated air / heat recovery	1
Air to Air Heat Exchanger	Air-to-air recuperators that transfer heat from process exhaust into incoming fresh air without mixing the streams.	Exhaust-to-fresh-air recovery	2
Economisers	Economiser systems that capture residual process or exhaust heat and transfer it into another useful thermal operation.	Waste heat to water, oil, or air	2
Recuperative Gas Heat Exchanger	Compact fully welded gas heat exchangers for counterflow recovery in fossil power, waste incineration, refining, and chemical plants.	Fully welded gas-to-gas recovery	2



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REPRESENTATIVE EQUIPMENT

Range note

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

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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-HS-109	Galvanized	Heavy industrial drying	Hot-dip galvanized tubes · High durability
NX-HS-110	Stainless	Hygienic or aggressive media	Laser-finned tubes · Long service life
NX-HS-111	PlainTube	Heavy pollution	Long on-stream time · Easy cleaning
NX-HS-112	Industrial	Plain or finned tube	Gas and liquid media · Heat recovery duties
NX-HS-113	Glued	Up to 180 C class	Lightweight construction · Low-medium temperature
NX-HS-114	Welded	Up to 1000 C experience class	Higher pollution and load · Customer-specific design
NX-HS-115	Standard	Custom economiser	Carbon or stainless steel · Wet/dry stage options
NX-HS-116	Modular	Standardized modular system	Short lead time · Vertical or horizontal installation
NX-HS-117	Compact	Gas-to-gas recovery	Small plot space · High separation tightness
NX-HS-118	CCS	Carbon capture support	Industrial recovery · Emission-facing processes

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

HEATING SOLUTIONS BROCHURE

APPLICATION

Where the family belongs.

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

Applications

- Power
- Pulp and paper
- Steel
- Waste-to-energy
- Food processing
- Carbon capture

STANDARDS & MATERIALS

The engineering framework.

Design standards

ASME VIII Div. 1 · EN 13445 · API 560 · PED 2014/68/EU

Material scope

Carbon steel · Stainless steel · Laser-finned tube ·
Aluminium · Specialist alloys

Industry routes

Food & Beverage · Heavy & Light Industry · Chemicals

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

HEATING SOLUTIONS 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



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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

HEATING SOLUTIONS 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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