

FAMILY BROCHURE / 06 LINES / 18 SERIES

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

EQUIPMENT FAMILY

Plate Heat Exchangers

PRODUCT LINES

6

SERIES ENTRIES

18

CORE STANDARDS

ASME VIII Div. 1 · PED 2014/68/EU · AHRI 400

MATERIAL SCOPE

316L stainless · 304 stainless · Titanium · SMO 254 ·
NBR / EPDM / HNBR gaskets

REVISION

Rev. 04 · 2026-10-01

PLATE HEAT EXCHANGERS BROCHURE

FAMILY

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.

Product lines
6

Design standards
ASME VIII Div. 1 · PED 2014/68/EU · AHRI 400

Material scope
316L stainless · 304 stainless · Titanium · SMO 254 · NBR /
EPDM / HNBR gaskets

Application scope
District energy · HVAC-R · Data centres · Food and
beverage · Marine · Oil and gas

Selection route

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

PLATE HEAT EXCHANGERS 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
Brazed Plate Heat Exchangers	Factory-brazed exchangers for high efficiency in compact spaces, prepared for water, refrigerant, and utility-loop duties.	Compact sealed plate packs	5
Double-Wall Plate Heat Exchangers	Plate exchangers for applications where two fluids must remain separated and any plate failure needs a visible leak path.	Leak-visible separation / protected media	2
Gasketed Plate Heat Exchangers	Serviceable framed plate exchangers for processes that need inspection access, capacity adjustment, and broad material compatibility.	Openable frames / flexible capacity	6
Semi-Welded Plate Heat Exchangers	Semi-welded plate exchangers for refrigerants and process fluids that need stronger containment on one side with service access on the other.	Cassette plates / demanding media	2
Welded Plate Heat Exchangers	Fully welded plate exchangers for high-pressure, high-temperature, gas-tight, and process-critical applications.	Sealed welded packs / pressure duties	1
Wide-Gap Plate Heat Exchangers	Wide-channel plate exchangers for viscous, fibrous, or particle-bearing fluids that need reliable heat transfer without frequent blockage.	Solids-bearing fluids / wider channels	2



PLATE HEAT EXCHANGERS



REPRESENTATIVE EQUIPMENT

Range note

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

PLATE HEAT EXCHANGERS 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-PHE-001	Watersafe	16 bar class	Drinking-water duties · Low-temperature utility loops
NX-PHE-002	Compact	35-45 bar class	General HVAC-R · High-efficiency plate geometry
NX-PHE-003	Refrigerant HP	46-140 bar class	CO2 and high-pressure refrigerants · Small refrigerant charge
NX-PHE-004	Double Wall	Safety separation	Media separation · Leak-aware construction
NX-PHE-005	Stainless	Corrosion-sensitive duties	Non-ferrous-free option · High corrosion resistance
NX-PHE-006	Gasketed	Inspectable framed unit	Potable water and food utilities · Expandable plate pack
NX-PHE-007	Compact	Compact sealed unit	Small plant rooms · Low hold-up volume
NX-PHE-008	HeatPump HP	High-pressure semi-welded	Commercial heat pumps · Critical media channel
NX-PHE-009	Universal	DN25-DN500 connections	Broad flow range · Multiple plate materials
NX-PHE-010	District	High NTU duties	Low temperature differences · Data center loops
NX-PHE-011	WideGap	Viscous and solids-bearing media	Larger flow channel · Reduced clogging tendency
NX-PHE-012	FreeFlow	Fiber and solids handling	Wastewater, sugar, and paper style duties
NX-PHE-013	DoubleWall	Safety separation	Potable water and incompatible-media duties
NX-PHE-014	Refrigerant	Ammonia and refrigerant duties	Cassette containment · Compact plant rooms
NX-PHE-015	Utility	Process utility duties	Adjustable capacity · Inspection-friendly frame
NX-PHE-016	Bloc	Process welded platform	Chevron style turbulence · Dimpled channel option · High-recovery applications
NX-PHE-017	Process	Viscous process fluids	Syrups and concentrates · Controlled pressure drop
NX-PHE-018	Fiber	Fiber and solids handling	Pulp-style duties · Reduced fouling tendency

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

PLATE HEAT EXCHANGERS BROCHURE

APPLICATION

Where the family belongs.

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

Applications

- District energy
- HVAC-R
- Data centres
- Food and beverage
- Marine
- Oil and gas

STANDARDS & MATERIALS

The engineering framework.

Design standards

ASME VIII Div. 1 · PED 2014/68/EU · AHRI 400

Material scope

316L stainless · 304 stainless · Titanium · SMO 254 · NBR / EPDM / HNBR gaskets

Industry routes

Data Centre · HVAC-R · Food & Beverage · Transportation · Chemicals · 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
Plate Heat Exchangers Brochure	Family brochure	Rev. 04	6	Download
Plate Heat Exchangers — Installation and Maintenance	Installation manual	Rev. 02	8	Download
Plate Heat Exchangers — Certificate of Conformity	Certificate	Issued per order	1	On request
Plate Heat Exchangers — Material Test Report	Material test report	Issued per order	1	On request

PLATE HEAT EXCHANGERS 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



PLATE HEAT EXCHANGERS



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

PLATE HEAT EXCHANGERS 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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