

GASKETED PLATE HEAT EXCHANGERS — PRODUCT OVERVIEW

PRODUCT OVERVIEW

Gasketed Plate Heat Exchangers — Product Overview

Plate Heat Exchangers · Gasketed Plate Heat Exchangers

Novaryn gasketed units are designed as modular thermal frames. The page covers high-flow utility systems, hygienic process fluids, particle-bearing media, double-wall separation, and semi-welded cassette options for more demanding refrigerants or process fluids.

Frame model

Openable bolted frame

Design emphasis

Service access and thermal flexibility

Media options

Clean, viscous, sensitive, and particle-bearing fluids

STANDARDS & MATERIALS

The framework behind the line.

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

Applications

Beverages · Dairy · Distribution centers · Grid · Processed food · Heat rejection

Series depth

6 series · three planning sizes each

At a glance

- Expandable plate pack
- Accessible cleaning
- Broad gasket options
- Low approach temperatures

Typical applications

- Beverages
- Dairy
- Distribution centers
- Grid
- Processed food

SERIES

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-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

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

How to read the series

The series entry defines the configuration route. The line datasheet carries the planning tables. The project datasheet replaces both with certified ratings, dimensions, connections and material schedules.

Range context

This line carries a deep series range. Use the ledger above to shortlist the configuration route, then confirm the envelope and connections against the GA drawing.

GASKETED PLATE HEAT EXCHANGERS – PRODUCT OVERVIEW

VARIANTS

Planning variants

Representative planning grid with three nominal sizes per series. Not for construction or procurement.

SERIES	MODEL	PLATE AREA	CONNECTION	PRESSURE CLASS	PART NUMBER
HeatPump HP	NX-PHE-008-S	18 m²	DN 80	PN 25	NX-PHE-008-S
HeatPump HP	NX-PHE-008-M	36 m²	DN 100	PN 40	NX-PHE-008-M
HeatPump HP	NX-PHE-008-L	54 m²	DN 150	PN 16	NX-PHE-008-L
Universal	NX-PHE-009-S	36 m²	DN 100	PN 40	NX-PHE-009-S
Universal	NX-PHE-009-M	54 m²	DN 150	PN 16	NX-PHE-009-M
Universal	NX-PHE-009-L	72 m²	DN 50	PN 16	NX-PHE-009-L
District	NX-PHE-010-S	54 m²	DN 150	PN 16	NX-PHE-010-S
District	NX-PHE-010-M	72 m²	DN 50	PN 16	NX-PHE-010-M
District	NX-PHE-010-L	90 m²	DN 80	PN 25	NX-PHE-010-L
WideGap	NX-PHE-011-S	72 m²	DN 50	PN 16	NX-PHE-011-S
WideGap	NX-PHE-011-M	90 m²	DN 80	PN 25	NX-PHE-011-M
WideGap	NX-PHE-011-L	108 m²	DN 100	PN 40	NX-PHE-011-L
FreeFlow	NX-PHE-012-S	90 m²	DN 80	PN 25	NX-PHE-012-S
FreeFlow	NX-PHE-012-M	108 m²	DN 100	PN 40	NX-PHE-012-M
FreeFlow	NX-PHE-012-L	126 m²	DN 150	PN 16	NX-PHE-012-L
DoubleWall	NX-PHE-013-S	108 m²	DN 100	PN 40	NX-PHE-013-S
DoubleWall	NX-PHE-013-M	126 m²	DN 150	PN 16	NX-PHE-013-M
DoubleWall	NX-PHE-013-L	144 m²	DN 50	PN 16	NX-PHE-013-L

Part numbers shown are catalogue planning references. Ordering codes incorporate the project revision, connection schedule and material options.

Selection inputs

Bring the media, flow, temperatures, design pressure, ambient conditions and allowable pressure drop. Those five inputs frame the thermal and mechanical envelope.

GASKETED PLATE HEAT EXCHANGERS — PRODUCT OVERVIEW

APPLIED

Where the line belongs.

Typical applications and the engineering intentions behind the configuration.

- Expandable plate pack
- Accessible cleaning
- Broad gasket options
- Low approach temperatures

Application scope

- Beverages
- Dairy
- Distribution centers
- Grid
- Processed food
- Heat rejection

DOCUMENTATION

Documents

Download the datasheet, GA drawing and this overview from the product library.

DOCUMENT	TYPE	REV.	PAGES	ACCESS
Gasketed Plate Heat Exchangers Datasheet	Datasheet	Rev. 04	2	Download
Gasketed Plate Heat Exchangers — Product Overview	Product overview	Rev. 04	4	Download
Gasketed Plate Heat Exchangers — General Arrangement	Drawing	Rev. 03	1	Download

Record set

The public library carries the selection record. Certificates, material reports and approved drawings are issued against the order and travel with the serial number.

LINE 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.

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