

DIFFUSION BONDED HEAT EXCHANGER DATASHEET

DATASHEET

Diffusion Bonded Heat Exchanger Datasheet

Process Heat Transfer · Diffusion Bonded Heat Exchanger

Novaryn bonded-core exchangers are described for severe services where conventional shell-and-tube size, weight, or approach temperature is not acceptable.

Pressure class Up to 1050 bar planning class	Temperature class -200 C to 600 C planning class
Approach Compact bonded microchannel core	Family Process Heat Transfer
Series entries 2	Core standards ASME VIII Div. 1 / Div. 2 · TEMA R / C / B · API 660 · API 661

SERIES

Series range

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-PT-073	HHX	Hydrogen heavy-duty class	Refueling station route · Extreme pressure service
NX-PT-074	SHX	Severe process class	Offshore and cryogenic applications · Low footprint

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

Engineering intent

- Very high pressure resistance
- Cryogenic to high-temperature envelope
- Small footprint
- Leak-free core design

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VARIANTS

Planning variants

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

SERIES	MODEL	SURFACE AREA	PRESSURE CLASS	MATERIAL	PART NUMBER
HHX	NX-PT-073-S	15 m²	PN 25	Duplex 2205	NX-PT-073-S
HHX	NX-PT-073-M	30 m²	PN 40	Titanium	NX-PT-073-M
HHX	NX-PT-073-L	45 m²	PN 100	316L	NX-PT-073-L
SHX	NX-PT-074-S	30 m²	PN 40	Titanium	NX-PT-074-S
SHX	NX-PT-074-M	45 m²	PN 100	316L	NX-PT-074-M
SHX	NX-PT-074-L	60 m²	PN 16	Duplex 2205	NX-PT-074-L

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

DOCUMENTATION

Line documents

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

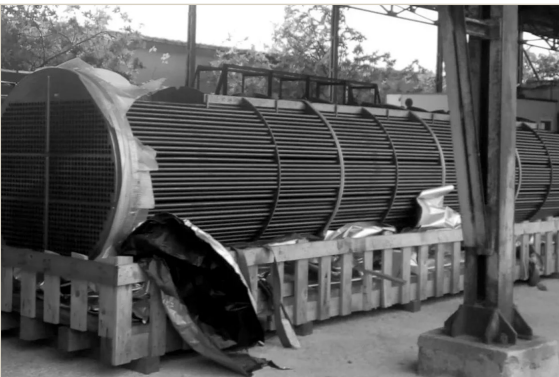
DOCUMENT	TYPE	REV.	PAGES	ACCESS
Diffusion Bonded Heat Exchanger Datasheet	Datasheet	Rev. 04	2	Download
Diffusion Bonded Heat Exchanger — Product Overview	Product overview	Rev. 04	4	Download
Diffusion Bonded Heat Exchanger — General Arrangement	Drawing	Rev. 03	1	Download

Order reference

Quote the line name and series code, then attach the duty point and the required document set. The controlling revision is shown in the header.

Selection inputs

- Media, concentration and allowable pressure drop
- Design flow, inlet and outlet temperatures
- Design pressure, test pressure and design temperature
- Ambient conditions, plot, access and connection schedule



REPRESENTATIVE LINE CONFIGURATION