

SHELL & TUBE SINGLE — PRODUCT OVERVIEW

PRODUCT OVERVIEW

Shell & Tube Single — Product Overview

Process Heat Transfer · Shell & Tube Single

Novaryn shell-and-tube units cover plain tubes, low-finned tubes, and compact-fin technology. The product page separates standardized modules from advanced customized units.

Tube options

Plain, low-finned, and compact-fin

Build model

Standardized to fully custom

Footprint

Compact-fin size reduction route

STANDARDS & MATERIALS

The framework behind the line.

Design standards

ASME VIII Div. 1 / Div. 2 · TEMA R / C / B · API 660 · API 661

Material scope

316L stainless · Duplex 2205 · Titanium · Nickel alloys · Carbon steel

Applications

Marine on-board systems · Solar, wind, hydro · Grid · Industrial cooling processes

Series depth

5 series · three planning sizes each

At a glance

- Mechanical robustness
- Configurable tube systems
- Global service logic
- Compact-fin option

Typical applications

- Marine on-board systems
- Solar, wind, hydro
- Grid
- Industrial cooling processes

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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-PT-078	ST-A	Brazed aluminum shell	Compact oil and air cooling · Series equipment route
NX-PT-079	ST-P	Compact modular unit	Standardized parts · Balanced cost and configurability
NX-PT-080	ST-R	Refrigeration unit	Refrigeration applications · Stable thermal duty
NX-PT-081	ST-V	Viscous/high-temperature media	Difficult fluids · High-temperature applications
NX-PT-082	ST-N	Fully customized unit	Industrial special duty · Insert bundle route

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.



SHELL & TUBE SINGLE — REPRESENTATIVE NOVARYN EQUIPMENT

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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
ST-A	NX-PT-078-S	15 m²	PN 25	Duplex 2205	NX-PT-078-S
ST-A	NX-PT-078-M	30 m²	PN 40	Titanium	NX-PT-078-M
ST-A	NX-PT-078-L	45 m²	PN 100	316L	NX-PT-078-L
ST-P	NX-PT-079-S	30 m²	PN 40	Titanium	NX-PT-079-S
ST-P	NX-PT-079-M	45 m²	PN 100	316L	NX-PT-079-M
ST-P	NX-PT-079-L	60 m²	PN 16	Duplex 2205	NX-PT-079-L
ST-R	NX-PT-080-S	45 m²	PN 100	316L	NX-PT-080-S
ST-R	NX-PT-080-M	60 m²	PN 16	Duplex 2205	NX-PT-080-M
ST-R	NX-PT-080-L	75 m²	PN 25	Titanium	NX-PT-080-L
ST-V	NX-PT-081-S	60 m²	PN 16	Duplex 2205	NX-PT-081-S
ST-V	NX-PT-081-M	75 m²	PN 25	Titanium	NX-PT-081-M
ST-V	NX-PT-081-L	90 m²	PN 40	316L	NX-PT-081-L
ST-N	NX-PT-082-S	75 m²	PN 25	Titanium	NX-PT-082-S
ST-N	NX-PT-082-M	90 m²	PN 40	316L	NX-PT-082-M
ST-N	NX-PT-082-L	105 m²	PN 100	Duplex 2205	NX-PT-082-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.



SHELL & TUBE SINGLE – REPRESENTATIVE NOVARYN EQUIPMENT

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APPLIED

Where the line belongs.

Typical applications and the engineering intentions behind the configuration.

- Mechanical robustness
- Configurable tube systems
- Global service logic
- Compact-fin option

Application scope

- Marine on-board systems
- Solar, wind, hydro
- Grid
- Industrial cooling processes

DOCUMENTATION

Documents

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

DOCUMENT	TYPE	REV.	PAGES	ACCESS
Shell & Tube Single Datasheet	Datasheet	Rev. 04	2	Download
Shell & Tube Single — Product Overview	Product overview	Rev. 04	4	Download
Shell & Tube Single — 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.

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