

DESUBLIMATORS — PRODUCT OVERVIEW

PRODUCT OVERVIEW

Desublimators — Product Overview

Process Heat Transfer · Desublimators

Novaryn desublimators are framed for chemical and pharmaceutical processes, tank venting, and vacuum protection where a component must crystallize out of a gas stream and later be recovered.

Process
Cooling and heating batch operation

Capture mode
Crystallization on cooled fins

Use case
Product recovery or emissions protection

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
LNG · Basic chemicals · Pharma · Speciality chemicals

Series depth
3 series · three planning sizes each

At a glance

- High separation efficiency
- Long loading time
- Low weight
- Sectioned internal distribution

Typical applications

- LNG
- Basic chemicals
- Pharma
- Speciality chemicals

DESUBLIMATORS – PRODUCT OVERVIEW

SERIES

Series ledger

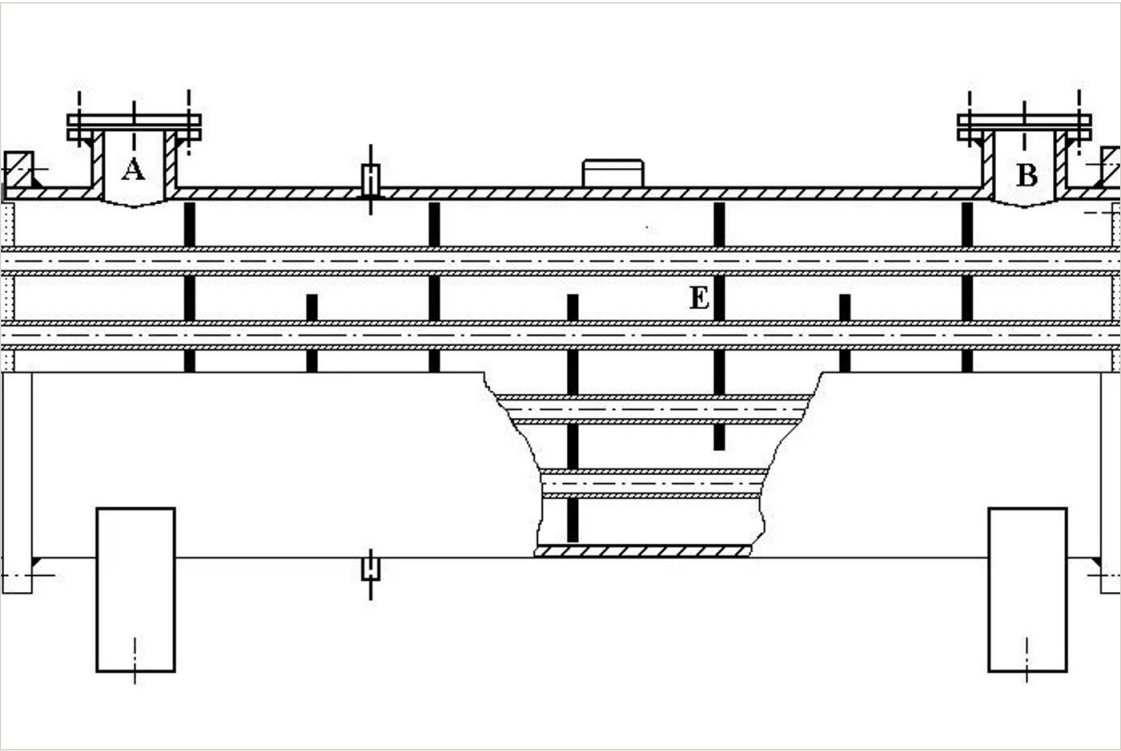
Configuration routes inside this line. Series codes are Novaryn references; project-specific model codes are confirmed on the order.

CODE	SERIES	RANGE / APPLICATION	CONFIGURATION
NX-PT-069	High Pressure	Pressure desublimator	Demanding gas streams · High separation duty
NX-PT-070	Mini	Compact desublimator	Pilot or smaller streams · Space-constrained systems
NX-PT-071	Switch	Switch condenser	Alternating batch operation · Continuous process support

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.



DESUBLIMATORS – REPRESENTATIVE NOVARYN EQUIPMENT

VARIANTS

Planning variants

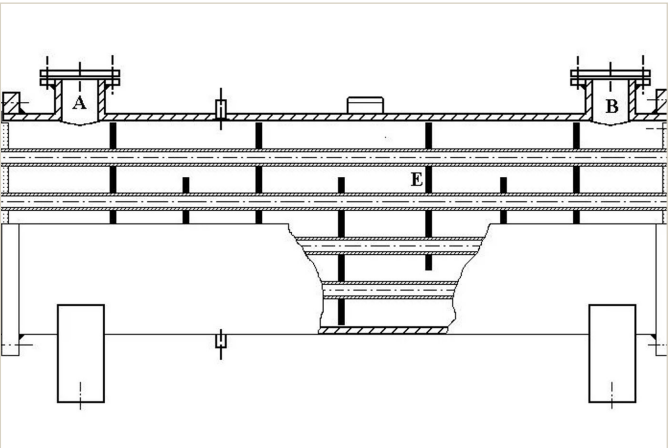
Representative planning grid with three nominal sizes per series. Not for construction or procurement.

SERIES	MODEL	SURFACE AREA	PRESSURE CLASS	MATERIAL	PART NUMBER
High Pressure	NX-PT-069-S	15 m²	PN 25	Duplex 2205	NX-PT-069-S
High Pressure	NX-PT-069-M	30 m²	PN 40	Titanium	NX-PT-069-M
High Pressure	NX-PT-069-L	45 m²	PN 100	316L	NX-PT-069-L
Mini	NX-PT-070-S	30 m²	PN 40	Titanium	NX-PT-070-S
Mini	NX-PT-070-M	45 m²	PN 100	316L	NX-PT-070-M
Mini	NX-PT-070-L	60 m²	PN 16	Duplex 2205	NX-PT-070-L
Switch	NX-PT-071-S	45 m²	PN 100	316L	NX-PT-071-S
Switch	NX-PT-071-M	60 m²	PN 16	Duplex 2205	NX-PT-071-M
Switch	NX-PT-071-L	75 m²	PN 25	Titanium	NX-PT-071-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.



DESUBLIMATORS – REPRESENTATIVE NOVARYN EQUIPMENT

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APPLIED

Where the line belongs.

Typical applications and the engineering intentions behind the configuration.

- High separation efficiency
- Long loading time
- Low weight
- Sectioned internal distribution

Application scope

- LNG
- Basic chemicals
- Pharma
- Speciality chemicals

DOCUMENTATION

Documents

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

DOCUMENT	TYPE	REV.	PAGES	ACCESS
Desublimators Datasheet	Datasheet	Rev. 04	2	Download
Desublimators — Product Overview	Product overview	Rev. 04	4	Download
Desublimators — 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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