

CASCADE COOLING DATASHEET

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Heat Rejection & Heat Recovery · Cascade Cooling

Novaryn cascade cooling is framed for large thermal loads where annual ambient conditions change sharply. It gives operators a design story for saving water when conditions allow and adding evaporative lift when peak capacity is required.

Operating modes Dry, wet, and blended mode	Design aim Energy and water optimization
Approach Near wet-bulb operation when needed	Family Heat Rejection & Heat Recovery
Series entries 1	Core standards ASME VIII Div. 1 · API 661 · CTI ATC-105 · PED 2014/68/EU

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-HR-045	Hybrid	Site-scale modules	Dry and wet cooling combination · Annualized utility balance

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

Engineering intent

- Dry/wet mode flexibility
- Lower annual utility load
- Peak-condition resilience
- Strong sustainability narrative

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VARIANTS

Planning variants

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

SERIES	MODEL	CAPACITY	FAN DIAMETER	OPERATING MODE	PART NUMBER
Hybrid	NX-HR-045-S	0.5 MW	1.5 m	Adiabatic	NX-HR-045-S
Hybrid	NX-HR-045-M	1.0 MW	1.8 m	Evaporative	NX-HR-045-M
Hybrid	NX-HR-045-L	1.5 MW	2.1 m	Dry	NX-HR-045-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
Cascade Cooling Datasheet	Datasheet	Rev. 04	2	Download
Cascade Cooling — Product Overview	Product overview	Rev. 04	4	Download
Cascade Cooling — 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