

HYBRID COOLERS — PRODUCT OVERVIEW

PRODUCT OVERVIEW

Hybrid Coolers — Product Overview

Heat Rejection & Heat Recovery · Hybrid Coolers

Novaryn hybrid coolers are positioned for data centers, industrial utilities, refrigeration plants, and district energy systems that need low water consumption for much of the year while keeping dependable capacity in hot ambient conditions.

Operating modes

Dry, wet, or assisted cooling

Planning focus

Annual water and energy balance

Install route

Outdoor modular heat rejection

STANDARDS & MATERIALS

The framework behind the line.

Design standards

ASME VIII Div. 1 · API 661 · CTI ATC-105 · PED 2014/68/EU

Material scope

Hot-dip galvanised steel · Stainless steel · Aluminium fins · CuNi tube · C5-M coating

Applications

Air cooled solutions · Liquid cooled solutions · Heat rejection · District energy · Supermarkets · Green hydrogen

Series depth

2 series · three planning sizes each

At a glance

- Dry-mode operation
- Evaporative peak support
- Lower annual water use
- Stable capacity during high ambient periods

Typical applications

- Air cooled solutions
- Liquid cooled solutions
- Heat rejection
- District energy
- Supermarkets

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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-HR-052	DryAssist	Drycooler with evaporative assist	Hot-day performance support · Water-managed operation
NX-HR-053	Process	Industrial hybrid cooling	Large outdoor duty · Noise and plume planning

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.



HYBRID COOLERS – 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	CAPACITY	FAN DIAMETER	OPERATING MODE	PART NUMBER
DryAssist	NX-HR-052-S	0.5 MW	1.5 m	Adiabatic	NX-HR-052-S
DryAssist	NX-HR-052-M	1.0 MW	1.8 m	Evaporative	NX-HR-052-M
DryAssist	NX-HR-052-L	1.5 MW	2.1 m	Dry	NX-HR-052-L
Process	NX-HR-053-S	1.0 MW	1.8 m	Evaporative	NX-HR-053-S
Process	NX-HR-053-M	1.5 MW	2.1 m	Dry	NX-HR-053-M
Process	NX-HR-053-L	2.0 MW	2.4 m	Adiabatic	NX-HR-053-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.



HYBRID COOLERS – REPRESENTATIVE NOVARYN EQUIPMENT

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APPLIED

Where the line belongs.

Typical applications and the engineering intentions behind the configuration.

- Dry-mode operation
- Evaporative peak support
- Lower annual water use
- Stable capacity during high ambient periods

Application scope

- Air cooled solutions
- Liquid cooled solutions
- Heat rejection
- District energy
- Supermarkets
- Green hydrogen

DOCUMENTATION

Documents

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

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