PRODUCT OVERVIEW

Adiabatic Systems — Product Overview

Heat Rejection & Heat Recovery · Adiabatic Systems

Novaryn adiabatic systems support condenser, drycooler, and gas-cooler installations where ambient spikes otherwise force oversizing or reduce performance. The page separates spray and pad logic for selection.

Modes
Spray or pad evaporative assist

Temperature impact
Up to 10 C air-cooling effect in suitable conditions

Integration
Condenser, drycooler, or gas-cooler support

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

Series depth
2 series · three planning sizes each

At a glance

- High ambient safety margin
- Improved drycooler performance
- Optimized water use
- Spray or pad variants

Typical applications

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

ADIABATIC SYSTEMS — 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-HR-038	Spray	Spray nozzle assist	Direct evaporative support · Hot-day capacity boost
NX-HR-039	Pad	Pad assist	Controlled pre-cooling · Water-use 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.

ADIABATIC SYSTEMS — REPRESENTATIVE NOVARYN EQUIPMENT

ADIABATIC SYSTEMS — PRODUCT OVERVIEW

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
Spray	NX-HR-038-S	0.5 MW	1.5 m	Adiabatic	NX-HR-038-S
Spray	NX-HR-038-M	1.0 MW	1.8 m	Evaporative	NX-HR-038-M
Spray	NX-HR-038-L	1.5 MW	2.1 m	Dry	NX-HR-038-L
Pad	NX-HR-039-S	1.0 MW	1.8 m	Evaporative	NX-HR-039-S
Pad	NX-HR-039-M	1.5 MW	2.1 m	Dry	NX-HR-039-M
Pad	NX-HR-039-L	2.0 MW	2.4 m	Adiabatic	NX-HR-039-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.

ADIABATIC SYSTEMS — REPRESENTATIVE NOVARYN EQUIPMENT

ADIABATIC SYSTEMS — PRODUCT OVERVIEW

APPLIED

Where the line belongs.

Typical applications and the engineering intentions behind the configuration.

- High ambient safety margin
- Improved drycooler performance
- Optimized water use
- Spray or pad variants

Application scope

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

DOCUMENTATION

Documents

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

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