

ADIABATIC SYSTEMS DATASHEET

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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	Family Heat Rejection & Heat Recovery
Series entries 2	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-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.

Engineering intent

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

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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
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.

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
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

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