

SEMI-WELDED PLATE HEAT EXCHANGERS DATASHEET

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# Semi-Welded Plate Heat Exchangers Datasheet

Plate Heat Exchangers · Semi-Welded Plate Heat Exchangers

Novaryn semi-welded units use welded cassette channels where gasket exposure should be reduced, while preserving frame access for capacity adjustment and inspection. They fit refrigeration, heat pump, chemical utility, and process heat recovery duties.

|                                                                                         |                                                                                   |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <div>Construction</div> <div>Welded cassette plate channels</div>                       | <div>Service model</div> <div>Openable frame with gasketed alternate side</div>   |
| <div>Duty profile</div> <div>Refrigerant, heat pump, and process utility services</div> | <div>Family</div> <div>Plate Heat Exchangers</div>                                |
| <div>Series entries</div> <div>2</div>                                                  | <div>Core standards</div> <div>ASME VIII Div. 1 · PED 2014/68/EU · AHRI 400</div> |

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-PHE-014 | Refrigerant | Ammonia and refrigerant duties | Cassette containment · Compact plant rooms      |
| NX-PHE-015 | Utility     | Process utility duties         | Adjustable capacity · Inspection-friendly frame |

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

## Engineering intent

- Reduced gasket exposure
- Expandable frame
- Serviceable utility side
- Good thermal approach in compact space

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VARIANTS

# Planning variants

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

| SERIES      | MODEL        | PLATE AREA | CONNECTION | PRESSURE CLASS | PART NUMBER  |
|-------------|--------------|------------|------------|----------------|--------------|
| Refrigerant | NX-PHE-014-S | 18 m²      | DN 80      | PN 25          | NX-PHE-014-S |
| Refrigerant | NX-PHE-014-M | 36 m²      | DN 100     | PN 40          | NX-PHE-014-M |
| Refrigerant | NX-PHE-014-L | 54 m²      | DN 150     | PN 16          | NX-PHE-014-L |
| Utility     | NX-PHE-015-S | 36 m²      | DN 100     | PN 40          | NX-PHE-015-S |
| Utility     | NX-PHE-015-M | 54 m²      | DN 150     | PN 16          | NX-PHE-015-M |
| Utility     | NX-PHE-015-L | 72 m²      | DN 50      | PN 16          | NX-PHE-015-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   |
|---------------------------------------------------------|------------------|---------|-------|----------|
| Semi-Welded Plate Heat Exchangers Datasheet             | Datasheet        | Rev. 04 | 2     | Download |
| Semi-Welded Plate Heat Exchangers — Product Overview    | Product overview | Rev. 04 | 4     | Download |
| Semi-Welded Plate Heat Exchangers — 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