

PRODUCT BROCHURE

Evaporative Condensers

Pillow plate condensers for efficient refrigerant or vapour condensation in industrial refrigeration and process systems.

CONTACT US

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EVAPORATIVE CONDENSERS

Product Overview

APPLICATIONS

- Industrial Refrigeration
- Process Condensation
- Heat Recovery
- HVAC

KEY BENEFITS

- + High heat transfer coefficient
- + Compact Design
- + Low refrigerant charge
- + Easy cleaning
- + Corrosion resistant

FEATURES

- | | |
|----|--|
| 01 | Shell and plate or open channel construction |
| 02 | Counter flow arrangement |
| 03 | Variable distribution header |
| 04 | Liquid sub cooling section option |
| 05 | Pressure vessel certification available |

AT A GLANCE



Evaporative Condensers – application photography

AISI304 / AISI316L / Duplex 2205

All materials supplied with 3.1 EN 10204 certificates.
Alternative alloys available on request.

Engineer an Evaporative Condenser package with us

WORKING PRINCIPLE

Refrigerant or process vapour enters the condenser and contacts the cooled external surface of the pillow plate. Heat is removed by cooling water or glycol flowing inside the channels, causing the vapour to condense and drain by gravity.



Indicative general arrangement – dimensions are application specific

CONFIGURATIONS

Vertical Shell and Plate

Horizontal panel bank

Flooded evaporator style

Brazed pillow plate package

TECHNICAL SPECIFICATIONS

Condensing Pressure	Up to 40 bar
Temperature Range	-10 to +120°C
Cooling Capacity	10 kW – 10MW
Refrigerant	NH3, CO2, HFO, Steam
LMTD	3 - 8°C typical
Material	SS304 / SS316L / Duplex

MATERIALS OF CONSTRUCTION

AISI 304

Standard austenitic stainless steel

AISI 316L

Enhanced corrosion resistance

All materials supplied with 3.1 EN 10204 certificates. Alternative alloys available on request — consult Calvion engineering for material suitability in specific process environments.