

PRODUCT BROCHURE

INDUSTRIAL ICE MACHINES

High capacity ice production systems based on pillow plate evaporator technology for food processing and industrial applications.

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CALVION TECHNOLOGIES
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INDUSTRIAL ICE MACHINES

Product Overview

APPLICATIONS

- Fish Processing
- Meat Processing
- Concrete Cooling
- Chemical Cooling

KEY BENEFITS

- + High daily ice production
- + Low energy per tonne of ice
- + Reliable ice release
- + Minimal maintenance
- + Long operational life

FEATURES

- 01 Pillow plate evaporator drum or plate
- 02 Scraper or harvest system
- 03 Variable capacity operation
- 04 Hot gas defrosts
- 05 Stainless steel wetted parts

AT A GLANCE



Ice Flake Image

AISI304 / AISI316L

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

Specify your Ice Generation requirement

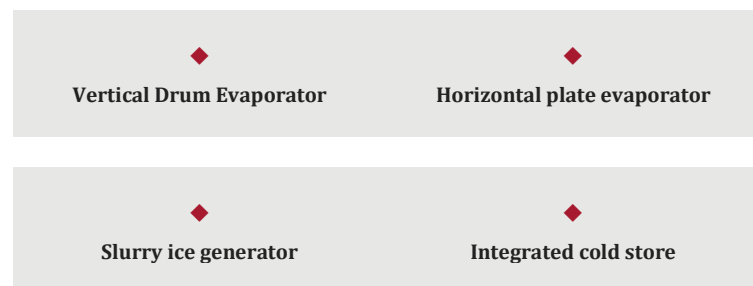
WORKING PRINCIPLE

Refrigerant evaporates within the pillow plate channels, causing water on the outer surface to freeze. The ice layer is periodically harvested by a scraper blade or hot gas cycle, producing a continuous output of ice at the required form.



Indicative general arrangement – dimensions are application specific

CONFIGURATIONS



TECHNICAL SPECIFICATIONS

Refrigerant	NH ₃ , CO ₂ , HFO
Evaporation Temperature	-12 to -8°C
Ice Production	500 – 1,00,000 kg/day
Ice Form	Flake / Plate / Slurry
COP	Up to 3.2 (site dependent)
Material	SS304 / SS316L

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.