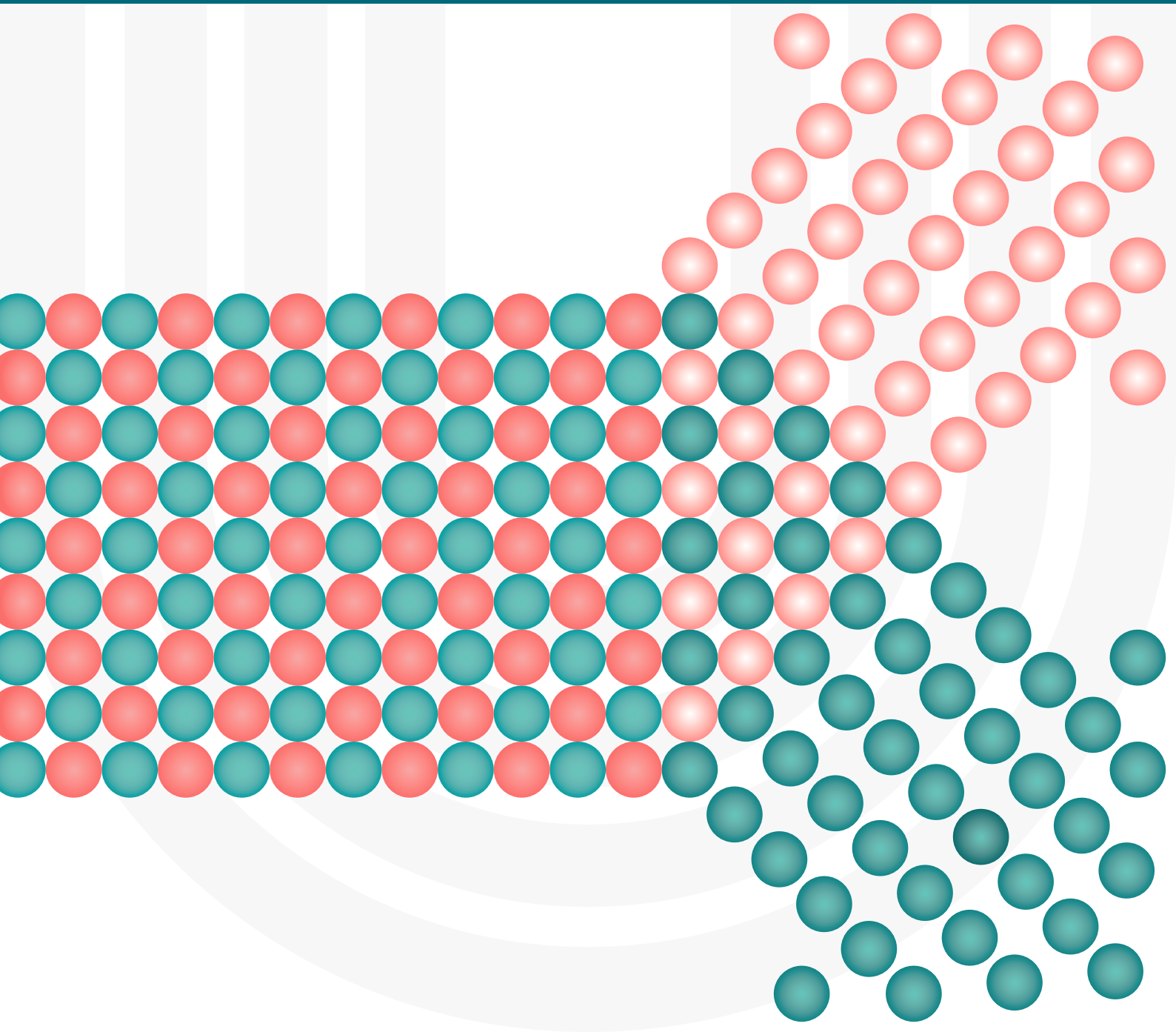
unopex

Evaporation & Molecular Distillation Units



EVAPORATION

Unopex Falling Film Evaporators

Evaporation technology is a process of separating substances by means of thermal energy. It is the most common and the most applied technique for concentration.

The required energy for evaporation is provided by different types of heating media such as steam, hot water or thermal oil.

In herbal processing lines, evaporation units are often integrated between the extraction and drying processes, they can also be operated as individual plants.

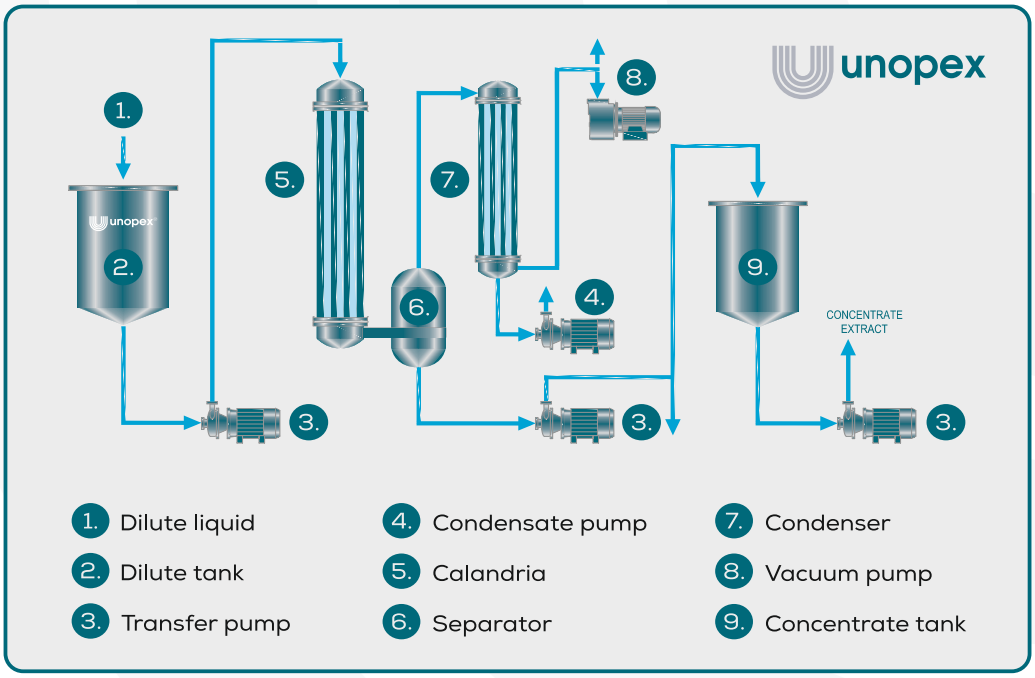
Unopex evaporators are small scale batch or continuous units operating at atmospheric pressure or under vacuum.

Unopex designs, manufactures and installs the system which is the most advantageous to your application.

Applications

- Food
- Pharma
- Chemical
- Academia

Flow Chart



Benefits

- suitable for heat sensitive and low viscous products
- suitable for solvent recovery after extraction
- economical for preconcentration
- high heat transfer rates
- operation under reasonable vacuum
- ATEX / non-ATEX
- tailor-made design for your exact requirements

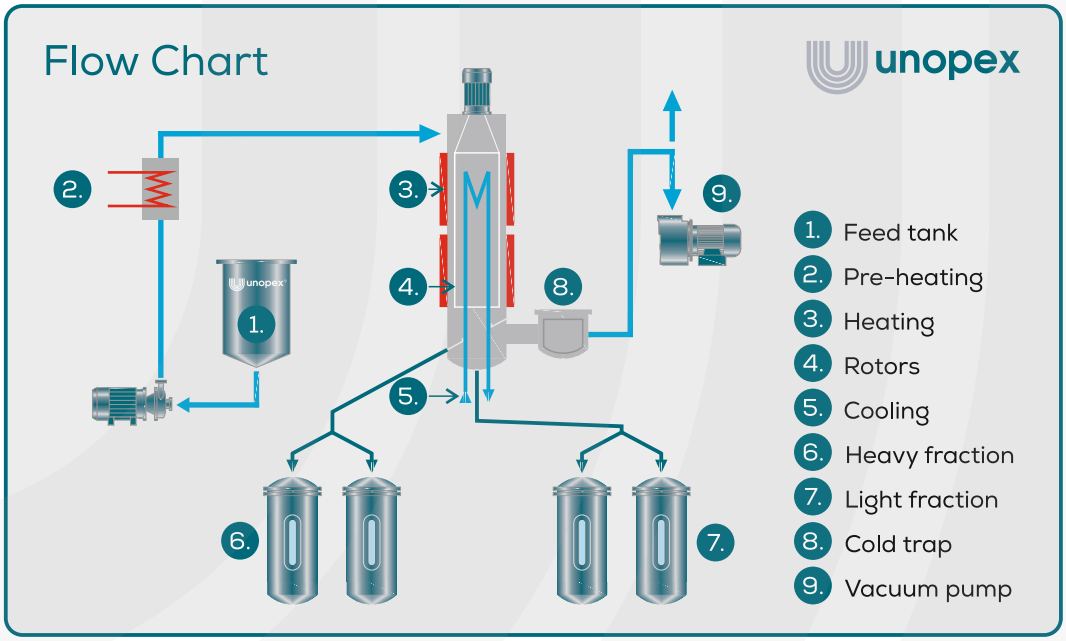
Molecular Distillation Units

Molecular distillation is a special type of vacuum evaporation technology performed by short-path evaporators where the condenser is located inside the evaporator body which results in minimized pressure drop.

Heat sensitive material meets heat for a short time under high vacuum, thus thermal stress and decomposition of the product can be minimized.

It is a gentle distillation method suitable for separation, purification and concentration of components in food, pharmaceutical, chemical industries and in academia.

Unopex designs and manufactures molecular distillation units for research and development applications as well as small scale productions.



Benefits

- continuous distillation process
- high evaporation rates, short residence time
- processing of medium to high viscosity materials
- ATEX / non-ATEX
- very low operating pressures
- suitable for working with heat sensitive products

Technical Specifications

model	Unopex M 106	Unopex M 110
feed rate	3 ..... 9 kg/h	5 ..... 20 kg/h
max. heating temperature	300 °C	
min. pressure	< 0.005 mbar	
material	AISI 316L / AISI 304	
dimensions	2.0 x 1.5 x H2.5 m	3.5 x 1.5 x H3.0 m

MOLECULAR DISTILLATION

YERLİ ÜRETİM

unopex

Achieving Together

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