

Unopex E 50 Extraction Unit



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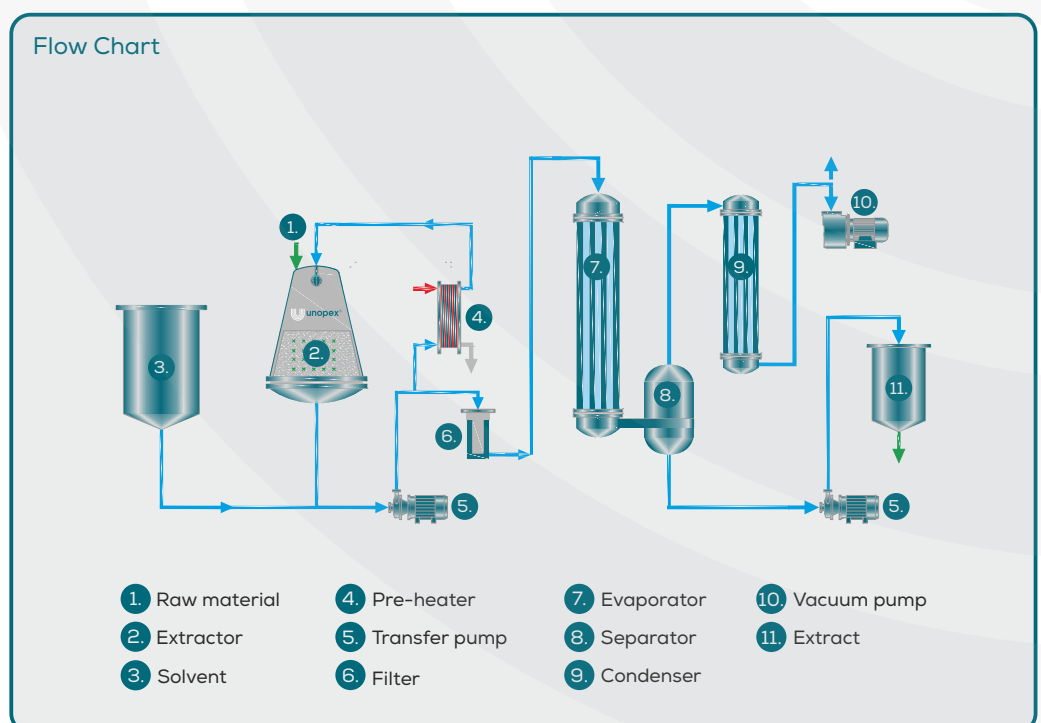
Unopex is the pioneer brand of extraction and evaporation technologies. We design and manufacture solid-liquid extraction units with integrated evaporators for research and development applications as well as small scale productions.



Operation

The raw material is filled into the extractor and extracted with solvents ethanol and/or water. The solvent can be pre-heated and continuously re-heated during percolation.

After the extraction cycle the liquid extract is filtered and pumped to the integrated evaporator for concentration. The residual liquid is sucked off from the wet cake by applying vacuum and the final cake is discharged easily from the extractor by opening the bottom cover.



model	Unopex E 50
extractor volume	50 liters (optional 2x50 liters)
solvent tank volume	300 L
temperature limit	120 °C
pressure limit	-1/+6 bar
evaporation	falling film evaporator
preheating	shell&tube heat exchanger
steam distillation	for essential oils
filtration	stainless steel filter (10 - 500 µm)
solvent	water and organic solvents
material	AISI316, 316L, 316Ti, 304
gaskets	PTFE, EPDM
process steam	3 barg
connection voltage	3x400V, 50Hz
potection	ATEX / non-ATEX design
dimensions	3500x1600xH3250 mm
control box	stainless steel, HMI touch screen, PLC control, data logging to record the process parameters



Applications

- Pharma
- Food
- Cosmetics
- Academia

Benefits

- touchscreen panel with user-friendly software for monitoring and operating the entire process
- good contact of raw material and extraction medium
- simple filling and emptying
- solvent circulation in both directions
- quick extraction and high extract quality
- extract concentration under vacuum
- clear extract with integrated filtration
- very quick residue discharge
- easy cleaning and inspection
- trend display of process parameters
- cost and space saving process
- multistage option
- CE certification
- tailor-made design



We are thrilled to contribute to researchers and producers all over the world to easily realize their projects that protect nature and serve humanity with our expertise, experience, motivation, talent, product and services.

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