

Solvent Purification and Recycling with Vapour Permeation

Buss-SMS-Canzler offers highly economical hybrid systems with thermal separation and membrane technology to purify and recycle solvents.

Payback periods:

15 months with a feed capacity of 600 kg/h
10 months with a feed capacity of 1000 kg/h

The payback period for the feed capacity of 600 kg/h is based on:

Purchase / sales cost for pure Ethanol 99,9 w%:	0,8 €/kg
Attainable revenue for used Ethanol:	0,6 €/kg
Utility costs:	116.000 €/year
Labour costs:	66.000 €/year

Typical Applications:

Ethanol, Iso-Propanol,
Butanol, higher Alcohols
Acetone, MEK, MIBK
Acetate
MTBE, ETBE, THF
Benzene, Toluene,
Styrene, Xylene
many others upon request

Technical features and advantages:

- High solvent purities up to 99,95 w%
- Azeotropic points are easily overcome
- High purities of the effluent streams, e.g. water 99,9 w%
- Recovery rate of solvent up to 99 %
- No requirement for special utilities
- Fully automated operation
- No pulsation
- Small foot print

Example: Ethanol dehydration

Feed: Ethanol - Water - Impurities
Outlet 1: Ethanol 99,9 w%
Outlet 2: Water 99,9 w%, Impurities

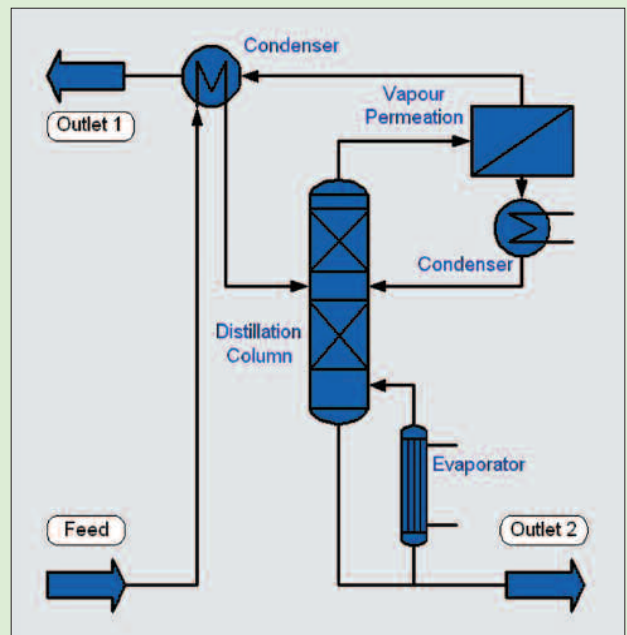
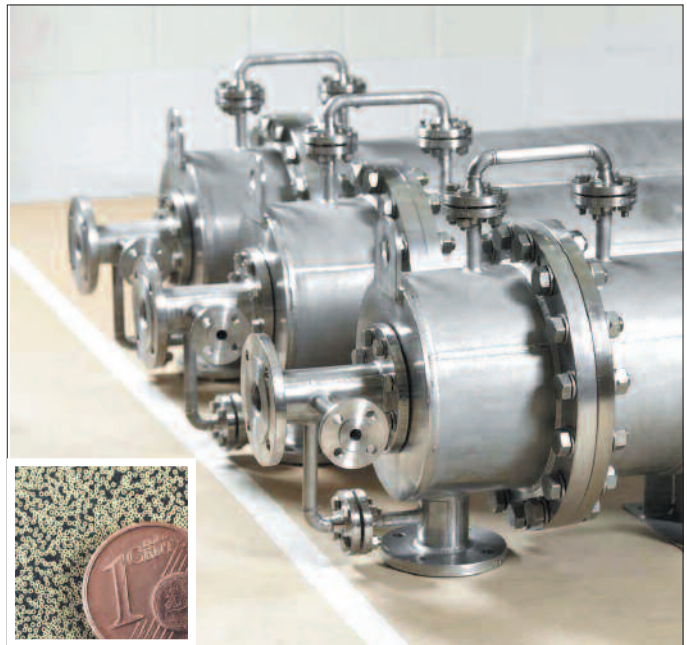


Photo: Courtesy of Brüggemann Alkohol and Whitefox Technologies

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Specialist in thermal separation
and membrane technology

