Since the invention of the Switch Condenser in 1954, Kelvion has delivered more than 1,500 units globally for PA processes. The design philosophy behind our Switch Condensers is the optimal use of the entire surface for collecting PA, to ensure economical loading times. For that reason, we have introduced three sections of fin tube systems with different designs and functions.

The main task of the high density section is collecting PA in a very compact form. Next, there is a high yield section, which also collects PA and cools gas. Finally, the high efficiency section has a special filter function for PA needles. This guarantees the very high efficiency rate of Kelvion switch condensers.

Our engineering excellence has convinced our customers worldwide, who have confirmed our technological advantages in their processes and daily operation. As a result, Kelvion is the undisputed world market leader in desublimator technology.

- HIGHEST EFFICIENCY/MINIMUM PA LOSS
- LOW WEIGHT
- LOW OPERATING COST
- LOW ENERGY CONSUMPTION
- HIGH RELIABILITY
- MINIMIZED RISK OF FATIGUE FAILURES
- LONG LIFETIME
- MAINTENANCE FRIENDLY
GOOD TO KNOW

Desublimators are not “regular” heat exchangers.

The purpose of desublimators is material separation through phase change.

Desublimation is a thermodynamic material separating process.

Desublimation can be an attractive alternative to adsorption, absorption or cyclon separation methods.

SWITCH CONDENSER APPLICATIONS

Product separation in chemical & pharmaceutical processes

Environmental protection

Protection of vacuum systems

Recovery of valuable (raw) materials

DESIGN DATA

GAS FLOW  MAX. 40,000 NM³/H

CAPACITY  MAX. 10,000 KG PA/CYCLE

O-XYLENE LOADING  100 G/NM³ AIR & HIGHER

EFFICENCY OF...

... POWER PLANTS  40 - 45 %

... HEAT EXCHANGERS  approx. 80 %

... FILTERS / DEMISTERS  approx. 98 %

... SWITCH CONDENSERS  min. 99.5 %

EXAMPLES OF SUBSTANCES SUITABLE FOR DESUBLIMATION

- Aminophenol
- Amylphenol
- Chloro aniline
- Glycolide
- Iodine
- Naphthalene
- Naphtol
- Oligomers
- Polymers
- Phthalic Anhydride
- Polylactide
- TDA (diamino toluene)
- Water
- Others on request

INTERNATIONAL CERTIFICATION

- TÜV NORD
- TÜV Rhineland
- TÜV Austria
- Det Norske Veritas
- Class NK
- Lloyd’s Register of Shipping
- Bureau Veritas
- American Bureau of Shipping
- Germanischer Lloyd
- Urzad Dozoru Technicznego
- Inspection and Quarantine of the PRCh
- Gost – RT
- U-Stamp acc. ASME Code

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