NEW PATENTED PRODUCT

MULTI-COMPARTEMENT-HEAT-EXCHANGER
MULCOM EXCHANGE

ENGINEERING · TESTS · APPARATUS · COMPLETE PLANTS

POSSIBLE IN SEVERAL DIFFERENT VERSIONS

FALLING FILM EVAPORATOR
NATURAL CIRCULATION EVAPORATOR
FORCED CIRCULATION EVAPORATOR

THERMAL PROCESS ENGINEERING
Example Heat-Exchanger (same tube quantity):

- Length: 300 cm
- Design pressure: -1/+0,5 bar
- Design temperature: +200°C

Multi stage plants

4 traditional tube bundle heat exchanger ø 1000 mm weight = 6560 kg
THE INOVATIVE MULTI-COMPARTMENT-HEAT-EXCHANGER (MULCOM)

MULCOM-Heat-Exchanger
Ø 2000 mm weight = 6100kg

Benefits at a glance:
- less space requirements
- lower investment costs
- saving potential in frame construction and foundation
- reduction of time effort for e.g.
  - erection and installation
  - cleaning
  - maintenance
  - service

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FIELDS OF ACTIVITY

ENGINEERING
- Trouble shooting, consulting
- Laboratory/pilot testing
- Process development
- Process simulation
- Basic- and detail engineering
- Risk analysis
- Installation planning 3D
- Measuring and control engineering
- Automation, procurement of materials
- Assembling and supervision, startup
- Operators instruction

PLANT CONSTRUCTION
- Skid plants
- Complete process units
- Pre-assembled skid-units
- Plant equipments

AFTER-SALES-SERVICES
- Service contracts for all delivered plants and external plants
- Spare part support

EVAPORATION
- Natural circulation evaporator
- Forced circulation evaporator
- Falling film evaporator
- Multistage evaporator
- Thin film evaporators
- Vapor recompression evaporator
- Heat pump evaporator

CRYSTALLISATION / DRYING
- Evaporation crystalliser
- Thin film dryer

RECTIFICATION / ABSORPTION
- Packed column
- Scrubber
- Absorption columns

LIQUID-LIQUID-EXTRACTION
- Extraction columns, agitated
- Mixer-Settlers
- Multistage reaction columns

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