

**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

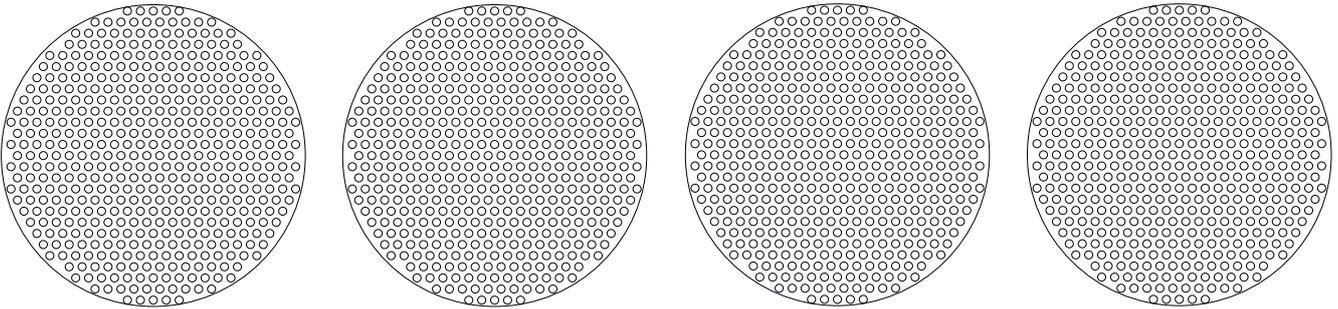
THERMAL PROCESS ENGINEERING

COMPARISON

■ Example Heat-Exchanger (same tube quantity):

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

Multi stage plants



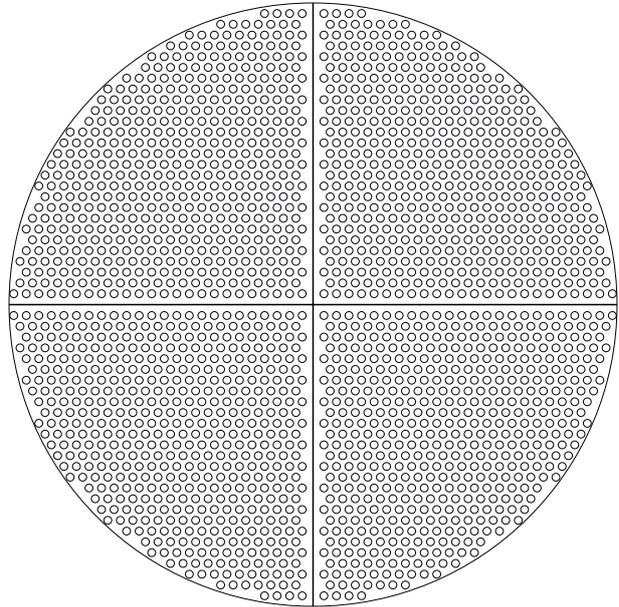
4 traditional tube bundle heat exchanger \varnothing 1000 mm weight = 6560 kg



Assembly sketch traditional tube bundle heat exchanger

■ THE INOVATIVE MULTI-COMPARTMENT-HEAT-EXCHANGER (MULCOM)

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



Assembly Sketch
MULCOM-HEAT-EXCHANGER

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

- CONCENTRATED ON SOLUTIONS -

SCHULZ+PARTNER GMBH
VERFAHRENSTECHNIK
CARL-ZEISS-STR. 11
D-79331 TENINGEN

TEL + 49 (0)7641 95 95 70-0
FAX + 49 (0)7641 95 95 70-1
INFO@SCHULZPARTNER.COM

WWW.SCHULZPARTNER.COM