

## **CE 600**

# Rectification in detail

compact — multifunctional — remote

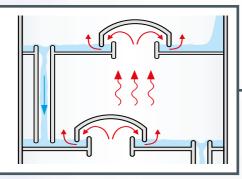
Rectification is an important thermal separation method in industry for separating homogeneous liquid mixtures, e.g. to fractionate crude oil. Using CE 600, students get to know the process in all its details.

- different operating modes (continuous, discontinuous, vacuum) and variation of a large number of parameters
- **usable anywhere** due to
- compact wheeled design
- electrically operated heater
- ▶ closed cooling water circuit
- remote learning: access to ongoing experiments on different end devices

#### Interchangeable columns

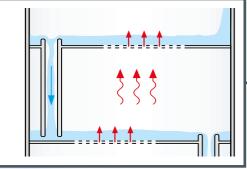
#### Bubble cap tray column

with 8 bubble cap trays, each separately removable



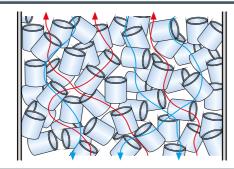
#### Sieve tray column

with 8 bubble cap trays, each separately removable



#### Packed column

filled with Raschig rings soda-lime glass 4 x 4 mm



#### 3 interchangeable columns each equipped with

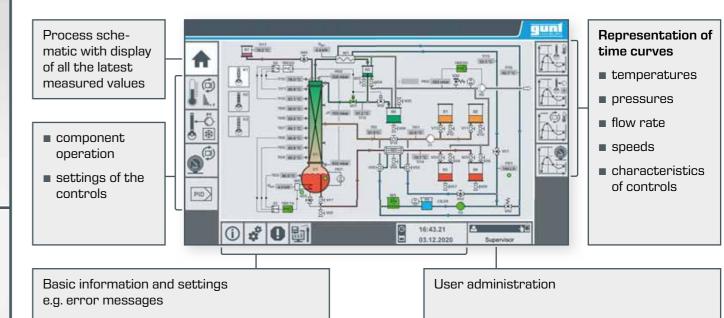
- 3 different inlet heights for 8 temperature sensors the feed flow
- to record the temperature profile



#### Extensive experimental range

- continuous or discontinuous mode
- vacuum mode possible
- with or without feed preheating
- different columns
- ▶ tray columns with variable number of trays
- ▶ different feed heights
- practice-oriented temperature controls
  - ▶ reflux ratio/heating power as actuator

### Integrated PLC with touch screen



#### Remote learning

- tracking experiments on different end devices via screen mirroring
- menu navigation independent of the user interface shown on the touch screen of the trainer
- data acquisition via network for evaluating the experiments

