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CE 400 Gas absorption

Order code: **5201.08340000**

Information about product price on demand

Parameters

Quantitative unit	ks

GUNT CE 400

Gas Absorption Unit is designed for the separation of a CO_2/air mixture through counterflow absorption with water. The system generates a controlled gas mixture using CO_2 from a compressed gas cylinder and ambient air, with adjustable mixing ratios via valves. A compressor delivers the gas mixture into the DURAN glass absorption column (packed bed), where the CO_2 is absorbed by water.

The solvent is continuously regenerated in a desorption column operating under vacuum, ensuring an efficient closed-loop process. Temperature control is maintained via an integrated heating and refrigeration system using R513A refrigerant.

Technical Data & Specifications:

Absorption Column:

- Height: 2 × 750 mm
- Inner diameter: 80 mm

Desorption Column:

- Height: 750 mm
- Inner diameter: 80 mm

Pumps:

- Absorption/desorption pumps: Max. flow rate 17.5 L/min, max. head 47 m
- Cooling pump: Max. flow rate 29 L/min, max. head 1.4 m

Compressor:

- Max. positive pressure: 0.6 bar
- Max. flow rate: 62 L/min

Refrigeration System:

- Capacity: 1432 W at 5/32°C
- Refrigerant: R513A (GWP: 631)
- Filling volume: 600 g
- CO_2-equivalent: 0.4 t

Measuring Ranges:

- Flow rate:
  - Air: 0.2–2.4 Nm^3/h
  - Solvent: 50–600 L/h
  - CO_2: 0.4–5.4 L/min
- Temperature:
  - 2x -200…100°C
  - 3x 0…120°C
  - 4x 0…60°C
- Pressure:
  - 1x 0…2.5 bar
  - 1x -1…0.6 bar
- Differential pressure:
  - 2x 0–250 mmWC
  - CO_2 content: 0–100 vol%

Operating Conditions:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase
- 230V, 60Hz, 3 phases (UL/CSA optional)

Included Items:

- DURAN glass absorption and desorption columns
- CO_2/air gas mixing system with adjustable ratio control
- Integrated compressor and pumps for solvent circulation
- Continuous solvent regeneration under vacuum
- Heating and refrigeration system with R513A refrigerant
- Multiple sensors for temperature, pressure, and CO_2 concentration

Dimensions & Weight:

- Unit (LxWxH): 1920 × 790 × 2300 mm
- Weight: Approx. 290 kg

Required for Operation:

- CO_2 gas cylinder with pressure-reducing valve
- Water connection and drain