

HAFFMANS CPT

CO₂ PURITY TESTER

PRODUCT LEAFLET

GENERAL PRODUCT INFORMATION

In the beer and beverage industries, the quality of carbon dioxide (CO₂) is a determining factor in the product's quality and taste. A low oxygen (O₂) content is crucial to avoid oxygen pick-up in beverages. The CO₂ collected from fermentation is liquified in order to reduce the space needed for storage and to purify the CO₂ from non-condensable gases – O₂ and nitrogen (N₂).

The CO₂ Purity Tester, type CPT, is used for routine controls of the air content of commercial CO₂ gas and CO₂ gas from fermentation. The principle is based on CO₂ absorption by caustic.

The measuring burette of the CPT is properly flushed with CO₂ gas. The CO₂ sample is separated in the measuring burette and the connection is made with the caustic burette. The CO₂ is completely absorbed by the caustic and the remaining gas volume is read on the scale of the measuring burette after turning the instrument on its backside.

Two executions are available:

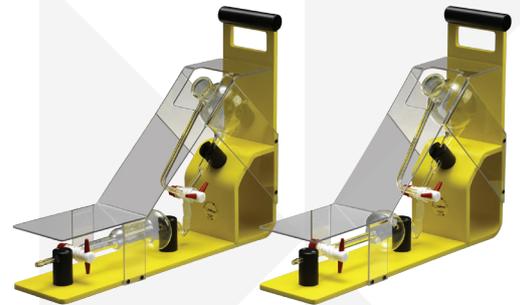
- Type CPT 99-100, measuring burette scale from 99 - 100% v/v, for measuring the end purity of commercial CO₂ gas or CO₂ gas from fermentation after purification
- Type CPT 50-100, measuring burette scale from 50 - 100% v/v, for measuring the intake purity of CO₂ gas from fermentation

BENEFITS

- Perfect product control
- Cost saving
 - less labor intensive – multiple measurements without the need to remove caustic

APPLICATIONS

- Quality Control
 - of gas distribution systems
 - of commercial gas
 - of incoming CO₂ gas from fermentation
 - of CO₂ recovered and purified from fermentation
 - in front of the carbonator to monitor the gas quality dosed
- Optimizing CO₂ Recovery Plants
 - behind the activated carbon filter/dryer
 - in the purge from the CO₂ liquefier to control the blow-off quantity automatically, preventing CO₂ loss as well as high concentrations of O₂ from dissolving CO₂
 - behind the CO₂ evaporator to monitor O₂ in the CO₂ distribution system



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TECHNICAL DATA

CPT 99 - 100%

Measuring range

99.0 - 100.0% v/v CO₂

Graduated scale

99 - 100% 0.02% v/v foreign gas

Accuracy

99 - 100% 0.01%

CPT 50 - 100%

Measuring range

50.0 - 100.0% v/v CO₂

Graduated scale

94 - 99.8% 0.1% v/v foreign gas

55 - 85% 2.0% v/v foreign gas

Accuracy

94 - 99.8% 0.05%

55 - 85% 1.0%

Volume

170 ml caustic solution

Caustic concentration

30% g/l NaOH with approx. 1% ethanol

30% g/l KOH with approx. 1% ethanol

Dimensions

430 x 110 x 330 (L x W x H mm)

Weight

Ca. 1 kg

SCOPE OF SUPPLY

- CO₂ Purity Tester*
 - Type CPT 99-100 or
 - Type CPT 50-100
- Instruction manual

* When ordering, please state which instrument you require.

OPTIONS

- Certificate of measurement



HAFFMANS BV

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