

CO₂ Purity Tester



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General product information

In the beer and beverage industry, the quality of carbon dioxide (CO₂) is decisive to the quality and the taste. A low oxygen content is crucial to avoid oxygen pick up in beverages.

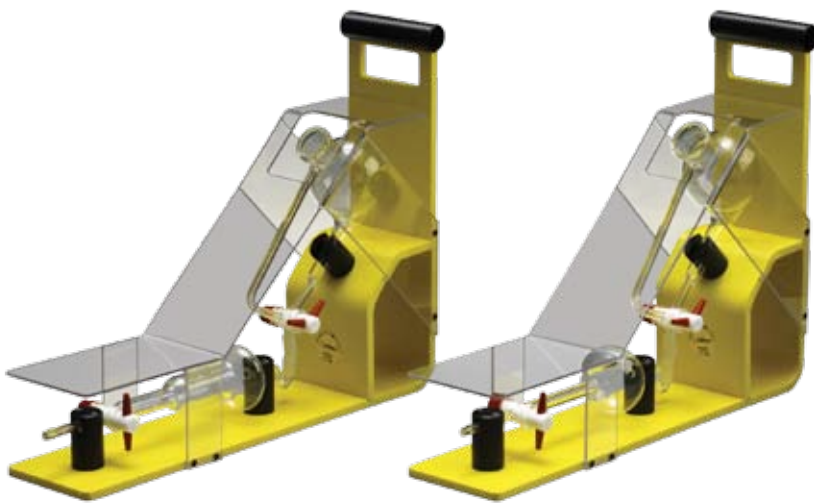
The CO₂ collected from fermentation is liquified in order to reduce the space needed for storage and to purify the CO₂ from non-condensable gasses (O₂ and N₂).

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.



CPT

CO₂ Purity Tester



Benefits

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

Applications

- Quality Control
 - of your 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 quantity 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, to prevent CO₂ losses as well as high concentrations of O₂ from dissolving CO₂
 - behind the CO₂ evaporator, to monitor O₂ in the CO₂ distribution system

Technical Data

	CPT 99 - 100 %	CPT 50 - 100 %
Measuring range:	99.0 - 100.0 % v/v CO ₂	50.0 - 100.0 % v/v CO ₂
Graduated scale		
99 - 100 %	0.02% v/v foreign gas	
92 - 100 %		0.1 % v/v foreign gas
50 - 90 %		2.0 % v/v foreign gas
Accuracy		
99 - 100 %	0.01 %	
92 - 100 %		0.1 %
50 - 90 %		1.0 %
Volume:	170 ml caustic solution	
Caustic concentration:	30 % g/l NaOH with approx. 1 % methanol 30 % g/l KOH with approx. 1 % methanol	
Dimensions:	430 x 110 x 330 (LxWxH in mm)	
Weight:	ca. 1 kg	

Scope of Supply

- CO₂ Purity Tester
 - Type CPT 99-100 or
 - Type 95-100
- Instruction Manual

Options

- Certificate of Measurement

Haffmans BV reserves the right to make changes in the technical specifications at any time.

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